



2004 Archived Issues

DECEMBER

12-30-04 Our hearts go out to all those suffering from the devastating impact of the earthquake and tsunami ...

12-30-04 Sanyo Production Capacity

Per this article, Sanyo Electric Co. plans to raise its production capacity for solar cells to 1,000 MW a year - 15 times its present capacity - by 2010. Story through Solarbuzz at:

<http://uk.biz.yahoo.com/041229/323/f9brd.html> and at
http://www.forbes.com/infoimaging/feeds/infoimaging/2004/12/29/infoimagingafx_2004_12_29_AEF_0090-2917-PRD.JPN.CSM..html

12-30-04 MSK Corporation Module Assembly Plant

MSK Corporation has opened a new 80-MW module production facility in Japan. As well as its range of standard panels designed to fit existing roofs, the company also produces a range of panels that can be used directly as building materials. More at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASMA45.htm>
MSK Corporation: <http://www.msk.ne.jp/english/index.shtml>

12-30-04 Kyocera Consolidation

As of 1 April 2005, Kyocera will consolidate its domestic sales division for solar energy products as well as the part of its solar power generation system business involved in the procurement and quality control of peripheral units (excluding solar modules), into KSC, a wholly owned subsidiary of Kyocera. Details at: <http://global.kyocera.com/news/2004/1205.html>

12-30-04 Lucas Winery's Solar

Renewable Technologies Inc. is installing a solar power system at The Lucas Winery. Says winery owner David Lucas, it's about social responsibility and doing your part to try to protect the environment. Using less power lowers the need for power plants, which means less pollution, which is better for the environment, especially the ocean. Story at:

<http://www.recordnet.com/daily/business/articles/123004-b-1.php> and through Solarbuzz at:
http://www.lodinews.com/articles/2004/12/30/news/01_solar_041230.txt

The Lucas Winery: <http://www.lucaswinery.com/>
Renewable Technologies Inc.: <http://www.renewable.com/aboutrti.html>

12-30-04 SEIA Response on National Commission Report

The Solar Energy Industries Association's response to the National Commission on Energy Policy's report can be found in the press release at:

<http://www.seia.org/news/releases.asp?id=39>

12-30-04 New Mexico Renewables

New Mexico State regulators approved a PNM plan to spend up to \$1.4 million on solar and biomass projects to comply with a state renewable energy law. Public Service Company of New Mexico will spend \$300,000 to build a 25-kW PV generating plant in 2005, and also plans to set aside about \$200,000 for a program to give incentives to individual customers who want to install PV systems and sell electricity back to the utility. Stories at RenewableEnergyAccess: <http://renewableenergyaccess.com/rea/news/story?id=20316> and <http://www.centreforenergy.com/displayNewsArticle.asp?From=NewsSearch&Search=&NumberStoriesToDisplay=ALL&ResultCategoryType=2.7&NewsPageID=5&NewsID=3401860&template=2.2.0&currPage=2>

12-30-04 Austin, Texas, Request for Proposals [SEIA Newsletter]

The City of Austin, Texas, is seeking proposals from companies that can supply about 330 kW of rooftop PV systems, including modules and power-conditioning equipment. For details, see: http://waller.ci.austin.tx.us/purchase/get_ad_detail.cfm?ID=SL05100002

12-30-04 PV Manufacturing Platform [Dr. Wolfgang Koch]

The 1st International Photovoltaic Manufacturing Equipment & Materials Exposition, and 1st International Advanced Photovoltaic Manufacturing Conference, comprise the Photovoltaic Manufacturing Platform at SEMICON(R) (SEMICON(R) is a registered trademark of Semiconductor Equipment and Materials International (SEMI)). All rights reserved. of Europa 2005, 12-14 April, in Munich. For the latest program agenda, contact w.koch@kosolco.de Also see "SEMICON Europa" at: <http://www.epia.org/04events/events.asp>

12-30-04 Costco Solar Products

Costco is beginning to offer home solar-power systems direct to consumers and, in partnership with BP, PV Powered has established an exclusive marketing deal with company. Story through Solarbuzz at: http://www.bendbulletin.com/news/story.cfm?story_no=15232
PV Powered: <http://www.pvpowered.com/>

12-30-04 New Jersey Clean Energy

The New Jersey Board of Public Utilities has approved \$745 million in funding to advance its clean energy goals and develop a renewable energy market in New Jersey. The funds will be allocated over the next 4 years through the Clean Energy Program. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO217.htm>
Clean Energy Program: <http://www.njcep.com/>

12-30-04 Solar Rebates in Nevada

The Nevada Public Utilities Commission approved solar power rebates for 50 residential and small-business electric customers, and adopted a program to help independent power developers secure financing for wind, solar, and geothermal power projects. For more, see the story through Solarbuzz at: http://www.reviewjournal.com/lvrj_home/2004/Dec-29-Wed-2004/business/25563147.html

12-30-04 Bodman Hearing

The Senate Energy and Natural Resources Committee has scheduled a hearing on Samuel Bodman's nomination as Secretary of Energy for 19 January 2005. December 11 News on Nomination: <http://www.denverpost.com/Stories/0,1413,36%257E11676%257E2590295,00.html>
Biographical Information: http://www.commerce.gov/bios/bodman_bio.html

12-22-04 Washington, D.C. Renewables [SEIA]

Under a new law, retail electricity suppliers in the District must obtain 11% of their electricity from renewables by 2022. The law also directs the DC Public Service Commission to establish a renewable energy credits trading program, and it establishes a Renewable Energy Development Fund to bank the alternative compliance fees paid by the utilities. SEIA e-mail press release 12-21-04. SEIA: <http://www.seia.org/>

12-22-04 Renewable Energy Credits

The Sun Farm Network(tm) (Sun Farm Network(tm) is a trademark of Sun Farm Ventures, Inc.) signed a 3-year contract for the sale of Solar Renewable Energy Credits to Reliant Energy. Said Sun Farm Network's CEO Mark Warner, "These multi-year arrangements underwrite a new and innovative financing strategy for solar capacity. The RPS requirements set by NJ's Board of Public Utilities, coupled with support from forward-looking companies like Reliant, creates a mechanism for [recognizing] real society benefit of solar energy economically." Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO264.htm>
Sun Farm Network: <http://www.sunfarmnetwork.com/>

12-22-04 Solar Flare Preview [Paula Mints]

The next issue of Solar Flare from Strategies Unlimited will be coming out the second week in January. As a preview, one of the articles to be included - covering PowerLight successes - can be accessed at:

http://www.powerlight.com/company/media/2004/12.21.04_SolarFlare_PowerLight.shtml

PowerLight Media Coverage: <http://www.powerlight.com/company/media/index.shtml>

12-22-04 More on National Commission on Energy Policy Report

The NCEP recently released a report with energy policy recommendations, which received mixed reviews. For more on this report, see RenewableEnergyAccess at:

<http://www.renewableenergyaccess.com/rea/news/story?id=20157>

12-22-04 New Mexico Funding for Job Training

Advent Solar in New Mexico will receive \$155,895 for training for 10 jobs, including technicians and engineers, using funding from the state's Job Training Incentive Program. Also, Native American renewable energy company Sacred Power was approved for \$53,480 to create 7 manufacturing jobs. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=3381027&ResultCategoryType=2,7&NewsPageID=3>

12-22-04 Solar Hybrid in Malaysia

The Malaysian government will spend RM20mil from the Electricity Industry Trust Fund next year to supply solar hybrid energy to remote areas in the country. Story at:

<http://thestar.com.my/news/story.asp?file=/2004/12/22/nation/9719331&sec=nation>

12-21-04 PV Status Report 2004 [Arnulf Jaeger-Waldau]

PV Status Report 2004 is now available on-line. This Third Edition expands to the enlarged European Union and to China, and gives an overview of current activities in research, manufacturing, and market implementation. Per the Preface, in 2004 the worldwide production of PV modules is expected to break the 1 GW annual sales mark, continuing the average growth of over 30% per year during the last 6 years, and making PV one of the fastest growing industries. See: <http://streference.jrc.cec.eu.int/html/EventsMain.htm>

12-21-04 Renewable Energy Alliance

Renewable energy organizations announced a new coalition to build renewable energy markets. The Renewable Energy Business Alliance, which includes SEIA, will promote policies for effective incentives to invest in renewable energy. Press at:

<http://www.sustainablebusiness.com/news/sbnews.cfm?ID=4969>

<http://releases.usnewswire.com/GetRelease.asp?id=40920>

12-21-04 Canrom "H System" Opportunity [Nick Delacu]

Canrom is inviting anyone interested in purchasing their H System, or interested in joining forces with Canrom in pursuing the "a-Si challenge", to contact them. The H-System, formerly owned by BP Solar, is a single-chamber, direct-current, plasma-enhanced, chemical-vapor deposition system for plates as large as about 8.5 ft sq. The H System can be used to develop single-junction a-Si:H modules, single junction a-SiGe:H solar modules, and tandem-junction a-Si:H/a-SiGe:H solar modules. For more about this system, contact Canrom at

ndalacu@canrom.com or 716-870-3634.

Canrom: <http://www.canrom.com/aboutus/index.htm>

12-21-04 Konarka Awards

Konarka Technologies, Inc. announced it has been named a World Economic Forum Technology Pioneer. Said Konarka chairman and chief executive officer Howard Berke, "In its 'The Right Side of the Future' report, the World Economic Forum identifies two trends Konarka is at the forefront of: the impending energy crunch and the switch from fixed to mobile devices." Press at:

http://home.businesswire.com/portal/site/altavista/index.jsp?ndmViewId=news_view&newsId=20041221005029&newsLang=en

World Economic Forum: <http://www.weforum.org/>

Konarka: <http://www.konarka.com/>

See also Konarka's Top 100 Innovators award from Red Herring:

http://home.businesswire.com/portal/site/altavista/index.jsp?ndmViewId=news_view&newsId=20041221005051&newsLang=en

Red Herring: <http://www.REDHERRING.com/>

12-21-04 UK Solar Energy Projects

UK Energy Minister Mike O'Brien announced that 15 new solar PV energy projects across the UK will receive almost £1 million in funding. For more on these awards, see the story at

Solarbuzz: <http://www.solarbuzz.com/News/NewsEUGO44.htm>

12-21-04 UK, PV Science, Applications and Technology Conference [Naomi Davidge]

A call for abstracts for the Solar Energy Society and PV-NET UK's 2nd Photovoltaic Science, Applications and Technology Conference, PVSAT-2, to be held 14-15 April 2005 at Loughborough University in the UK can be found at: <http://www.thesolarline.com/> (see Events).

12-21-04 Solar Panels in Fabrics

Gerrit Kroesen, a physicist working at Eindhoven University, The Netherlands, has found a method of replacing glass panels with "flexible silicon sheeting". It can be incorporated into a variety of textile products suitable for business or casual fashion. Story at: http://www.just-style.com/news_detail.asp?art=36192

12-21-04 PV Demand

For an article on increasing PV production to meet demand, see RenewableEnergyAccess at: <http://www.renewableenergyaccess.com/rea/news/story?id=20124>

12-21-04 SolarCraft New Hire

SolarCraft Services has hired Mark Johnson as the Construction and Project Manager. SolarCraft specializes in renewable energy systems - including solar electric and solar thermal. The company is also expanding its Novato-based facility in California. Story at:

http://biz.yahoo.com/bw/041221/215179_1.html

SolarCraft Services: <http://www.solarcraft.com/>

12-21-04 PV Solar Chargers

Universal Communication Systems subsidiary, Solar Style, Inc. company president Michael J. Zwebner announced that the company will launch a new range of patented PV Solar Chargers for the consumer electronics market. Story at: <http://biz.yahoo.com/iw/041221/078067.html>

12-20-04 BP Solar Power Station in Germany

BP Solar has completed a 1.766 MW solar plant on the site of a former nuclear power station in Lubmin, Germany. The modules were integrated into 36 "module tables", each with 92 BP

3160Q modules. Story at Solarbuzz: <http://www.solarbuzz.com/news/NewsEUPR197.htm>

BP Solar: <http://www.deutschebp.de/genericsection.do?categoryId=370&contentId=2000104>

12-20-04 Phonix SonnenStrom PV in Germany

Phonix SonnenStrom AG has completed a roof-mounted 220-kW solar PV installation for a recycling company in Bavaria, Germany. The system comprises 1,300 monocrystalline silicon modules connected to one SMA Sunny Central 200 and one SMA SB4200TL inverter. Story at

Solarbuzz: <http://www.solarbuzz.com/news/NewsEUPR196.htm>

Phonix SonnenStrom: <http://www.sonnenstromag.de/>

12-20-04 Phonix SonnenStrom and Photowatt Contract

Phonix SonnenStrom AG and Photowatt International have signed a framework contract for 2005 for the supply of multicrystalline and monocrystalline solar modules. Overall, Phonix SonnenStrom will purchase over 8 MW of modules from Photowatt in 2005. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsEU156.htm>

Phonix SonnenStrom: <http://www.sonnenstromag.de/>

Photowatt International:

http://www.photowatt.com/home/home_uk.php?page=../press/press_uk.htm&PHPSESSID=3903c93e664b491c0162f1c3103619cd

12-20-04 PowerLight PV Systems in Germany

For an article covering 3 Bavarian solar parks built by PowerLight, comprising 57,600 solar panels, see: <http://www.sfgate.com/cgi-bin/article.cgi?file=/c/a/2004/12/20/MNGRAAEL4B1.DTL>.

Said Tom Dinwoodie, CEO of PowerLight Corp., "There's a huge amount of opportunity here in Germany because the government has created a system that encourages large installations." Per the article, Germany's approach is being closely watched by officials in California and elsewhere as a possible model for developing renewable energy.

12-20-04 Solar on Flyers Gas Stations

Fuel distributor and retailer Nella Oil is running the pumps, outdoor lighting, and convenience stores at a dozen of its Flyers locations largely with solar power, and 4 more stations will go solar by the end of this year with another 19 scheduled in 2005. Story through Solarbuzz at:

<http://www.auburnjournal.com/articles/2004/12/19/news/business/08flyers.txt>

Photos: <http://www.pacpower.biz/flash/index.html>

12-20-04 Northern Power Systems Remote Power

Northern Power Systems has been awarded an approximately \$800,000 contract for 8 hybrid TelePower(tm) (TelePower(TM) is a trademark of Northern Powers Systems) remote power systems. The systems consist of a PV array with a single wind turbine, and a pair of Thermo Electric generators, designed to operate year around in Alaska. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR450.htm>

Northern Power Systems: <http://www.northernpower.com/>

Additional Northern Power Systems article:

<http://www.renewableenergyaccess.com/rea/news/story?id=20017>

12-20-04 Clean Edge Investor Summit

Clean Edge is holding a Clean-Technology Investor Summit 2-3 February 2005 in Palm Springs, California. Registration information at:

<http://www.ibfconferences.com/ibf/viewdetails.asp?lstconfname=147>

12-20-04 Fronius UL Listings

Fronius USA Solar Electronics Division announced it received Underwriters Laboratories listing for their FRONIUS IG 4000, IG 5100, and IG 4500-LV (208V) grid-tied inverters. Story at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/market/business/viewstory;jsessionid=alDeeOGKV FQ8?id=20021>

Fronius: <http://www.fronius.com/solar.electronics/products/index.htm>

Underwriters Laboratories: <http://www.ul.com/>

12-20-04 New York Renewables

New York State's Public Service Commission voted to accelerate a program to foster development of renewable energy generation in 2005 so that qualified generators can take advantage of federal tax credits before 2006 when the Production Tax Credit may expire. More at RenewableEnergyAccess: <http://www.renewableenergyaccess.com/rea/news/story?id=20010>

12-20-04 More on Fairfield, California Solar

Solano County in California dedicated their new Government Center and Plaza, which features green design elements, including 340 kW of PV arrays designed and installed by PowerLight. Story and photo at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story?id=20011>

PowerLight: <http://www.renewableenergyaccess.com/rea/market/business/view?cid=1382>

12-20-04 More on Shell Solar in California

December 19, the Ventura County Star (registration required) carried an article on the Shell Solar system for Semitropic Water Storage District of Wasco, which will contain 1,920 Shell PowerMax Ultra modules with the patent-pending "single axis tracking system". The system is also described at:

http://www.shell.com/home/Framework?siteld=shellsolar&FC2=/shellsolar/html/iwgen/news_and_library/press_releases/2004/zzz_lhn.html&FC3=/shellsolar/html/iwgen/news_and_library/press_releases/2004/semitropic_0812.html

Ventura County Star:

http://www.venturacountystar.com/vcs/business/article/0,1375,VCS_128_3410624,00.html

12-20-04 Solar Boat Competition

An estimated 300 students from 20 Southland high schools are building solar-powered boats for the 13-15 May 2005 Solar Cup event at lake Skinner near Temecula, California, sponsored by

the Metropolitan Water District of Southern California. More at:
http://biz.yahoo.com/bw/041217/175426_1.html

12-17-04 Photovoltech Production

Total SA said Photovoltech, a joint venture with Electrabel and its Soltech unit, will raise PV cell production at its plant in Tienen, Belgium, creating 80 jobs. Stories at:
<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=3299077&ResultCategoryType=2.7&NewsPageID=3> and Solarbuzz:
<http://www.solarbuzz.com/News/NewsEUMA56.htm>
Photovoltech: http://www.photovoltech.be/html/UK/set_main.asp

12-17-04 China's Wind - PV Hybrid System

China's first wind/PV power hybrid system was connected to the grid at the Huaneng Nan'ao Wind Power Park and put into commercial operation. Information through Solarbuzz at:
http://english.peopledaily.com.cn/200412/16/eng20041216_167597.html

12-17-04 PV Powered Inverter Performance Confirmation [Andy Black]

PV Powered LLC announced that its StarInverter PVP 2800 solar inverter is the industry's first UL and ETL tested inverter to meet Underwriters Laboratories 1741 Standard and ETL performance confirmation. ETL has confirmed the StarInverter PVP 2800 at 2800 watts of continuous power output, with a consistent 96% efficiency rating. Press at PV Powered:
http://www.pvpowered.com/news_12_14_04.php

12-17-04 IREC Newsletter [Jane Pulaski]

The latest issue of IREC's newsletter, covering schools going solar, interconnection information, state incentives, million solar roofs, and other news can be found at:
<http://www.irecusa.org/commout/enewsletter.html>. Included are links to Building America ZEB fact sheets, and highlights of a North Texas Zero Energy Home, at the Million Solar Roofs website: http://www.millionsolarroofs.org/articles/static/1/1099417578_1023713684.html

12-16-04 University of Delaware Space Solar Panels

Last month, researchers at the University of Delaware were selected by NASA as part of a team developing a new type of lightweight solar panel that can be used in the space agency's next mission to the moon. The university's Institute of Energy Conversion will get about \$350,000 from NASA to perfect a solar panel made with plastic that can stand up to the rigors of space travel, said Institute Director Robert Birkmire. More on these developments at:
<http://www.delawareonline.com/newsjournal/business/2004/12/16udworktomakesol.html>
IEC: <http://www.udel.edu/iec/news.html>

12-16-04 Massachusetts Renewable Energy Purchasers

The Center for Resource Solutions and Think Energy, Inc. announced a new program in Massachusetts that brings together businesses and higher learning institutions committed to purchasing their electricity from cleaner, renewable energy sources. The Massachusetts Renewable Energy Purchasers (MREP) program provides an opportunity for large energy buyers to aggregate their purchasing power. Story at:
http://www.crs2.net/HTMLemails/MREP_initial-release-11-05.htm

12-16-04 Pennsylvania's Clean Energy Bill

Green Mountain Energy® BJ's Solar in Conshohocken, PA, provided the backdrop for Pennsylvania Governor Rendell as he signed the Clean Energy Portfolio Standard into law.

Story at: http://biz.yahoo.com/bw/041216/165030_1.html
Green Mountain: <http://www.greenmountain.com/>

12-16-04 PFairfield, California Solar

Solano County dedicated the new Government Center and Plaza in downtown Fairfield, which includes two solar electric power systems for a total of 340 kW. The solar arrays were furnished by PowerLight Corporation. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR449.htm>
PowerLight: <http://www.powerlight.com/>

12-16-04 Solar Panels on Fabric

For an introduction to the article on "Pliable solar cells are on a roll, The thin and bendy solar panels can be stuck to fabrics, sheets or backpacks and promise a go-anywhere electricity supply", see the New Scientist Article Preview at: <http://www.newscientist.com/article.ns?id=mg18424786.000>
Related article at: <http://news.scotsman.com/scitech.cfm?id=1433222004>

12-16-04 More on Richard Smalley's Energy Presentation

Additional coverage of Nobel Prize winner Richard Smalley's presentation at the International Electron Devices Meeting, including perspectives on alternative energy, can be found at: http://news.zdnet.com/2100-9596_22-5492624.html

12-16-04 Ideas for Renewables

The World Bank's "Development Marketplace 2005" will provide a maximum of \$150,000 for each proposal that is "a brilliant but unusual idea that may not get funded through traditional venues", with the top category being renewable energy and energy efficiency at the community level. For more on this competition, see ReFocus at: [http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=347537&accnum=1&topics=World Bank Development Marketplace:](http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=347537&accnum=1&topics=World Bank Development Marketplace)
<http://web.worldbank.org/WBSITE/EXTERNAL/OPPORTUNITIES/GRANTS/DEVMARKETPLACE/0..menuPK:180652~pagePK:180657~piPK:180651~theSitePK:205098,00.html>

12-16-04 Hawaii Renewable Energy Workshops

Solar Energy International will be in Hawaii to offer two renewable energy workshops in Honolulu in partnership with Inter-Island Solar Supply. Information at RenewableEnergyAccess: <http://renewableenergyaccess.com/rea/news/story?id=19904>
<http://renewableenergyaccess.com/rea/market/business/viewstory?id=19831>

12-15-04 Sharp Capacity

Sharp Corporation will increase its annual solar cell production output at its Katsuragi Plant in Nara Prefecture from 315 MW to 400 MW. More at Solarbuzz: <http://www.solarbuzz.com/News/NewsASMA44.htm>
Sharp: <http://www.sharp.co.jp/sunvista/index.html>
<http://sharp-world.com/solar/index.html>
<http://sharp-world.com/corporate/news/index.html>

12-15-04 Pepsi Solar Electric System

Pepsi Cola has installed a solar system that includes an 11-kW system in Lakeview, Oregon, a 29-kW system at a Klamath Falls warehouse, and a 132-kW system at the company's main office and warehouse in Klamath Falls. The 132-kW system features building-integrated PV with 1,042 laminated solar panels bonded to the metal roof, designed and installed by Advanced

Energy Systems. Stories at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR448.htm>
and http://biz.yahoo.com/bw/041214/145868_1.html
Energy Trust of Oregon: <http://www.energytrust.org/>

12-15-04 Clean Energy Experts on National Commission Report [Scott Sklar]

An organization comprising 12 clean energy leaders has issued a statement in reply to the National Commission on Energy Policy's recently published report. For the opinion piece, see Clean Edge News, 12/15 at: <http://www.cleandedge.com/news-listing.php>
Commission: <http://energycommission.org/>

12-15-04 Markets for Renewable Energy and Energy Efficiency

A £2.5 million cash infusion from the UK to the Renewable Energy and Energy Efficiency Partnerships (REEEP) is the largest commitment from any country so far. For more on this contribution and REEEP, see: <http://www.defra.gov.uk/news/latest/2004/energy-1215.htm>
REEEP: <http://www.reeep.org/>

12-15-04 Renewable Energy Deployment for National Security

For Jesse Broehl's article on "National Security to Lead Renewable Energy Deployment", see RenewableEnergyAccess at:
<http://www.renewableenergyaccess.com/rea/news/story;jsessionid=aq26b-D8TdE6?id=19841>

12-15-04 BP Executive on Alternative Energy

Said Lord Browne in a speech in Canada, "We in BP are investing in research and development work in photovoltaics, the technology which supports solar power, and in various other forms of alternative energy supply". Browne said one day, one or more of those new sources would provide a significant proportion of global energy demand. "But the evidence is that day is still a long time off". Press at:
<http://www.thisisnorthscotland.co.uk/displayNode.jsp?nodeId=149212&command=displayContent&sourceNode=150624&contentPK=11494795>

12-15-04 More on Georgia Tech Organic Solar Cell

For press on Georgia Tech's new approach to organic solar cells, see the release through Solarbuzz at: <http://www.gatech.edu/news-room/release.php?id=497> and the story at RenewableEnergyAccess:
<http://www.renewableenergyaccess.com/rea/news/story;jsessionid=a2YzRfG5WIBe?id=19895>

12-15-04 Solar Power 2005 and Solar Decathlon

See the article at RenewableEnergyAccess on the next Solar Power (2005) conference and the Solar Decathlon at:
<http://www.renewableenergyaccess.com/rea/news/story;jsessionid=a2YzRfG5WIBe?id=19902>
Solar Power 2005: <http://www.solarpowerconference.com/>
Solar Decathlon: http://www.eere.energy.gov/solar_decathlon/

12-14-04 SunPower Manufacturing

SunPower Corp. announced it will expand the manufacturing capacity of its solar cell factory in the Philippines to 50 MW by the second half of next year - doubling its current capacity. Press at:
http://home.businesswire.com/portal/site/altavista/index.jsp?ndmViewId=news_view&newsId=20041214005314&newsLang=en
SunPower: <http://www.sunpowercorp.com/html/>

12-14-04 EPIA Solar Generation II [Christy Herig]

EPIA and Greenpeace are renewing their collaboration, including the publication of SOLAR GENERATION. The study will be launched at the European Parliament 18 January 2005. The EPIA/Greenpeace scenario shows that by 2020, PV systems could generate approximately 282 TWh of electricity around the world. Information at:

http://www.epia.org/09newsletter/newsletter_new.asp

See more news articles (scoop, national, international, etc.) at the EPIA Solaris Newsletter at:

http://www.epia.org/09newsletter/newsletter_new.asp?c_year=2004&c_month=12&c_cat=6

12-14-04 Green Jobs [Peter Beadle]

A new recruitment service for renewable energy - greenjobs - has been launched at

<http://www.greenjobs.com/public/index.aspx>. Questions about job postings can be directed to peter@greenjobs.com.

12-14-04 PV in Mississippi

Lectrique Solaire, LLC is the first advanced PV power grid for consumer usage in Mississippi and the Southeast, says Sammy Germany, president and operations director for the new business for the company. The first 30 kW is on line, and at least 3 more projects are planned. Germany said hundreds if not thousands of new jobs are possible by promoting alternative solar energy production in Mississippi. Story through Energy Central [subscription] from the Mississippi Business Journal Nov. 15. Energy Central Website:

http://www.energycentral.com/centers/news/daily/by_topic.cfm?tid=12&type=power

12-14-04 Georgia Tech Organic Solar Cells

Said Bernard Kippelen, professor in the Center for Organic Photonics and Electronics and the School of Electrical and Computer Engineering at Georgia Tech, "We've demonstrated that using a crystalline organic film, pentacene, is a promising new approach to developing organic solar cells." Stories at:

[http://www.ascribe.org/cgi-](http://www.ascribe.org/cgi-bin/ behold.pl?ascribeid=20041213.090753&time=10%2012%20PST&year=2004&public=1)

[bin/ behold.pl?ascribeid=20041213.090753&time=10%2012%20PST&year=2004&public=1](http://www.ascribe.org/cgi-bin/ behold.pl?ascribeid=20041213.090753&time=10%2012%20PST&year=2004&public=1)

<http://www.physorg.com/news2339.html>

http://www.technologyreview.com/articles/04/12/rnb_121404.asp

12-14-04 Green Power in the U.S.

The majority of net-metered customers are in California, which had 4,869 residential and 373 non-residential customers, estimates the Energy Information Administration in "Green Pricing & Net Metering Programs 2003". Arizona is second. Story and link at ReFocus:

http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=43752688&accnum=1&topics=

12-14-04 Japan's Lead

Japan remains the leading country in the world for solar PV, both in terms of new installations and per-capita capacity. Story and link at ReFocus:

http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=24790591&accnum=1&topics=

12-14-04 Solar Light for Africa

Solar Light for Africa (SLA) collaborates with others to provide power and light to public facilities in rural regions of Africa. In recognizing the work that the SLA is doing in East Africa, the U.S.

Agency for International Development has awarded a \$300,000 grant to the organization. Story at RenewableEnergyAccess: <http://www.renewableenergyaccess.com/rea/news/story?id=19818>

12-14-04 More on SolarWorld Expansion

Additional information on SolarWorld's expansion can be found at their website:

<http://www.solarworld.de/sw-eng/presse-corporatenews/index.php?seite=../presse-corporatenews/corporatenews-12-002-en>

12-14-04 California Solar Report

California residents could save by investing in solar power systems to generate electricity for their homes according to a report released by the Environment California Research & Policy Center. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=3244516&ResultCategoryType=2,7&NewsPageID=3>

Report: <http://environmentcalifornia.org/envirocalifenergy.asp?id2=15123&id3=CEnergy&>

Environment California: <http://www.environmentcalifornia.org/>

More on California's recent activity can be found at:

<http://www.duluthsuperior.com/mld/duluthsuperior/business/10409822.htm>

12-14-04 Solar-powered Water Distillation

Solar Energy Systems Infrastructure Managing Director Anthony Maslin said that the first Solarflow water distillation system for the Maldives is enroute to the island of Kulhudhuffushi where production trials will begin in January. The Solarflow System combines a reverse osmosis unit with a Sun Mill solar water pump, a Sun Tracer tracking array, solar panels, and a stand with two storage tanks. Story at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story?id=19840>

Solarflow: <http://www.sesltd.com.au/html/waterpure.htm>

12-14-04 Universal Communication Systems Shareholders Meeting

Universal Communication Systems, Inc. chairman Michael J. Zwebner announced the results of the company's Annual Shareholders Meeting. The company "...continued to build the business of all aspects of Photo Voltaics Solar Energy, (PV) in the ever growing Solar Industry". Story at: Universal Communication Systems: <http://www.ucsy.com/>

12-13-04 Michelin and Voltwerk PV in Germany

Michelin and Voltwerk are working on a 10 MW PV project at 4 locations across Germany. The first two locations will be complete by the end of this year. Altogether, the roof-top systems will utilize around 60,000 solar modules. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsEUPR195.htm>

Voltwerk: <http://www.voltwerk.de/en/index.php?&ID=0&language=en>

12-13-04 Kyocera Grand Opening for North American Manufacturing

Kyocera Solar, Inc. held a ribbon-cutting ceremony to officially inaugurate its new solar product assembly operations at the existing Kyocera Mexicana, S.A. de C.V. maquiladora plant in the Tijuana Industrial Park. The facility manufactures roof-mountable PV panels. Story at:

http://biz.yahoo.com/bw/041210/105508_1.html

Kyocera: <http://global.kyocera.com/index.html>

12-13-04 SolarWorld Expansion

SolarWorld AG will soon complete construction of a new production plant for silicon casting and wafering. With this addition, SolarWorld will increase its capacity for the manufacture of silicon ingots by 40 MW to 160 MW by July 2005. At the same time, the existing wafer production capacity will also be expanded. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsEUMA57.htm>

SolarWorld: <http://www.solarworld.de/>

12-13-04 California Solar

Activity is ramping up again on solar incentives in California. For the story, see:

<http://www.smdailyjournal.org/article.cfm?issue=12-13-04&storyID=37618>

12-13-04 XsunX Year

Said Tom Djokovich, XsunX CEO, "Advancing the development and testing of our processes for use on thin-film plastics is the culmination of a tremendous year for us and we are bullish on our prospects for bringing Power Glass(tm) (PowerGlass(TM) is a trademark of XsunX, Inc.) to the market in 2005". XsunX also has launched its new website. Story at:

<http://uk.biz.yahoo.com/041213/290/f8g4m.html>

XsunX: <http://www.XsunX.com/comp-news.htm>

12-13-04 Solar Underwater Robots

A group of researchers is conducting experiments with underwater robots as part of an NSF-funded initiative. The group is working to develop a network of distributed sensing devices and water-monitoring robots, including solar-powered autonomous underwater vehicles for detection of chemical and biological trends. Story at:

<http://www.sciencedaily.com/releases/2004/12/041212081548.htm>

12-13-04 Solar Housing Authority Scheme in the UK

UK solar company, solarcentury, and Lambeth Council celebrated the launch of a local housing authority scheme benefiting from an integrated solar tiled roof for generating clean electricity.

Story at Solarbuzz: <http://www.solarbuzz.com/news/NewsEUPR194.htm>

solarcentury: <http://www.solarcentury.co.uk/>

12-13-04 U.S. Secretary of Energy

President Bush has nominated Deputy Secretary of Treasury Sam Bodman to be the next Secretary of Energy. Press at:

http://www.energy.gov/engine/content.do?PUBLIC_ID=16982&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

Background: http://www.commerce.gov/bios/bodman_bio.html

12-13-04 Solar Power 2005

The website for Solar Power 2005, October 6-9 in Washington, D.C., presented by SEIA and the Solar Electric Power Association, is: <http://www.solarpowerconference.com/>

In related news...

12-13-04 Building Integrated Solar Thermal System

Winery owner Frank Reinhold is installing a building-integrated solar thermal (BIST) system designed by Dawn Solar. More on this system at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story.jsessionid=agwrfJFFCRY5?id=19750>

Dawn Solar: <http://www.dawnsolar.com/>

12-10-04 WorldWater Solar Irrigation Pumping System

WorldWater & Power Corp. unveiled the world's largest solar-powered irrigation pumping system during a commissioning ceremony at Seley Ranches, Borrego Springs, California. Story at: <http://www.primezone.com/pub/headlines.mhtml?d=69219>

WorldWater: <http://www.worldwater.com/index.html>

12-10-04 Sharp's Bendable Solar Cell [RTS Corporation]

According to the latest issue of "PV Activities in Japan" (subscription), Sharp has developed a bendable solar cell made of multicrystalline silicon, with the silicon sliced below 100 microns thick by a technology developed by Sharp. More on these developments, and other news, in "PV Activities in Japan", by subscription from RTS Corporation, Tokyo, Japan, e-mail: ikki@rts-pv.com.

12-10-04 Advent Solar Funding

Advent Solar, Inc. has completed \$8 million in Series B funding. The company will use the funds to produce its emitter wrap-through back contact cells. Story at Clean Edge News 12/10:

<http://www.cleaneedge.com/news-listing.php>

Advent Solar: <http://www.adventsolar.com/>

January 2004 Article: <http://www.solarbuzz.com/news/newsNACO179.htm>

12-10-04 IEA, Very Large Scale PV Power Generation

IEA Task 8 on Very Large Scale Photovoltaic Power Generation Systems (VLS-PV) started in 1999. Its objectives include gathering basic data relating to establishment of VLS-PV, for assessing the potential future installation of global-scale PV systems. For more on this task, and related reports, see: <http://www.oja-services.nl/iea-pvps/tasks/task8.htm>

12-10-04 Solar Powered Hydrogen

Researchers at the National Research Council Institute for Fuel Cell Innovation unveiled a solar-powered hydrogen generation system. The system uses electricity from PV panels to power a Hydrogenics HyLYZER(tm) (HyLYZER(TM) is a trademark of the National Research Council Institute for Fuel Cell Innovation) electrolyzer module, which generates hydrogen from water. The PV panels were design and installed by British Columbia Institute of Technology researchers. Story at:

<http://www2.marketwatch.com/news/newsfinder/newsArticles.asp?guid=%7BC10E6968%2D6D8A%2D49ED%2DB2A1%2DFD96E78E14B9%7D&siteID=mktw&scid=2&doctype=2007&property=&value=&categories=>

Hydrogenics: <http://www.hydrogenics.com/>

BCIT Applied Research in PV: <http://www.bcit.ca/appliedresearch/pv/>

For an article on The Hydrogen Economy: An Objective Look - Part 2: Hydrogen and Utilities, see: http://www.energypulse.net/centers/article/article_display.cfm?a_id=883

12-10-04 ACORE Phase II of Renewables

In a meeting assembled by the American Council On Renewable Energy (ACORE), 24 national leaders spoke to over 500 experts from industry and finance calling for a necessary and responsible shift in U.S. energy policy to put renewable energy technologies to use immediately. Story at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/market/business/viewstory?id=19733>

12-10-04 More on National Commission on Energy Policy Report

After two year's work, the nonpartisan National Commission on Energy Policy issued a report addressing all aspects of energy policy: supply, national security, environmental impact, and diplomacy. Story at: <http://www.renewableenergyaccess.com/rea/news/story?id=19722>

12-10-04 Smalley on Alternative Energy Funding

Richard E. Smalley, a 1996 Nobel Prize winner, is scheduled to speak at the International Electron Devices Meeting in San Francisco 14 December, and recently talked with editor-at-

large David Lammers about energy. For the interview, see EE Times at:
<http://www.eetimes.com/sys/news/showArticle.jhtml?articleID=55300681>

12-10-04 California Energy Commissions' Integrated Energy Policy Report Update [Nancy Hassman]

In 2003, the CEC adopted its first Integrated Energy Policy Report, which provided an assessment of the major energy trends and issues facing California along with recommended energy policies. In this 2004 update, the Report Committee focused on 3 areas, including accelerated renewable energy development. Information at:
http://www.energy.ca.gov/2004_policy_update/

12-10-04 Research and Markets Solar Photovoltaics Report [Amy Cole]

For information on Research and Markets report "Solar Photo Voltaics 2003 Edition 1", see:
<http://www.researchandmarkets.com/reports/c11067/>. The report includes an introduction to solar technology and the industry, applications of the technology, installed base of solar PV cells and modules, production and exports, company and country profiles, and other information.

12-9-04 Solar / Wind Hybrid Systems

Solar energy system developer Ecosystem Japan Co. and wind power generation system developer Zephyr Corp. have teamed up to develop and sell hybrid home-use generators. Sales will be launched in Spring 2005. Story at:
<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=3165413&ResultCategoryType=2,7&NewsPageID=3>

12-9-04 Australia, Renewables Program

Northern Territory Mines and Energy Minister, Kon Vatskalis, confirmed the continuation of renewable energy rebates and A\$488,000 in funding for 3 renewable energy projects. Through the agreement, remote power users and private power providers will have access to an additional A\$30 million over the next 6 years for renewable energy projects. In one of the funded projects, In Motion Technologies will receive A\$98,000 to demonstrate improvement in solar array output through use of their maximum power point trackers. More at Solarbuzz:
<http://www.solarbuzz.com/News/NewsASGO63.htm>

12-9-04 Chevron Energy Solutions in Michigan

Chevron Energy Solutions announced it has begun construction of an energy conservation project in Washtenaw County, Michigan, with costs to be funded through future energy savings. The project includes a new PV generation system, to be installed on the parking structure canopy at the Courthouse. Story at: http://biz.yahoo.com/prnews/041209/cgth005_1.html
Chevron Energy Solutions: <http://www.chevronenergy.com/>

12-9-04 PowerLight Newsletter

The current newsletter from PowerLight - Solar Currents, Issue #4 -is available on line at:
http://www.powerlight.com/newsletters/news_issue/4/CC-issue4.htm
See the story and photos for the Moscone Center, as well as other customer profiles.

12-9-04 More on Solar Power Plant in Philippines

More on the Cagayan Electric Power and Light Company Inc. 1-MWp PV plant in Barangay Indahag can be found at: <http://au.news.yahoo.com/041209/3/s3k2.html>

12-9-04 U.S. Energy Appropriations

The Consolidated Appropriations Act (Omnibus) was signed by the President 8 December.

12-8-04 Kyocera's 200-Watt Module

Kyocera Corporation will introduce a new 200-Watt solar module into the Japanese market in January 2005. Story and photo at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASPT30.htm>

Kyocera Press: <http://global.kyocera.com/news/2004/1203.html>

12-8-04 'Greening' Conference Events

The American Council On Renewable Energy (ACORE) and the Bonneville Environmental Foundation (BEF) announced that they have partnered to offset the environmental impacts of the conference, Renewable Energy in America - The Call for Phase II, being held in Washington, DC, through a purchase of BEF's Green Tags. Story at RenewableEnergyAccess: <http://www.renewableenergyaccess.com/rea/market/business/viewstory;jsessionid=aiyhjBLWPtZ6?id=19611>

ACORE: <http://www.acore.org/>

BEF: <http://www.b-e-f.org/> and <http://www.GreenTagsUSA.org/>

12-8-04 Solar-powered Aircraft / Airships

An international project is developing new technology that can be installed into high-altitude platforms - such as solar powered aircraft or airships - to make broadband Internet access available to remote areas and moving trains. With 3.1 million euros from EU's Framework Programme, the CAPANINA project brings together 13 partners from Europe and Japan to develop the equipment to operate the aircraft or airships. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=3155675&ResultCategoryType=2,7&NewsPageID=3>

EU's Framework Programme: <http://fp6uk.ost.gov.uk/>

12-8-04 Philippines Solar

The Philippines government launched the Solar Power Technology Support (SPOTS) project aimed at improving the socio-economic condition of agrarian-reform communities in 16 provinces in Mindanao. Among the systems to be installed include water pumps, incubators and hatcheries, community lighting, and vaccine refrigerators, all powered by PV. Stories at:

<http://www.abs-cbnnews.com/NewsStory.aspx?section=PROVINCIAL&oid=64701> and

<http://au.news.yahoo.com/041207/3/s2il.html>

12-8-04 Governor Richardson's Renewables Agency

New Mexico Governor Bill Richardson will ask the Legislature for funding to develop a new agency that would help with the production and transmission of renewable energy. The Renewable Energy Transmission Authority would be a quasi state agency. Story at:

http://www.currentargus.com/artman/publish/article_10558.shtml

12-8-04 Boeing Spectrolab Award

NASA recently selected Boeing to work on 7 technology development projects as part of NASA's Human and Robotic Technology program. Under one of the projects - Ultra-High Specific Power Density Solar Blanket - Boeing Spectrolab will receive \$1.96 million for the first year to develop new space PV panel technologies, with extremely high specific power and compact stowage volume, enabling missions with high electric power demands on the surface of the moon and Mars, as well as on spacecraft. Information at:

<http://www.spaceref.com/news/viewpr.html?pid=15621>

12-8-04 BP PowerGlaz

The Gateshead Council in the north of England claims its new International Business Centre is

the first council-owned building in the region to generate its own electricity. The building is fitted with 36 BP PowerGlaz panels integrated into the front elevation and roof structure. More information at BP: <http://www.bpsolar.com/DisplayNews.cfm?id=97>

12-8-04 German PV Lobby Groups

The boards and management of the German Solar Energy Business Association and the Federal Solar Industry Association want their organizations to merge. More on this development at Photon International: http://www.photon-magazine.com/news/news_2004-12_eu%20feat%20UVS-BSI%20merger.htm

12-8-04 U.S. Energy Strategy

Today, an independent commission of top energy experts from industry, the environment, labor, science and consumer groups are in Washington to offer their consensus strategy for improving national energy policy. The 16-member, bipartisan National Commission on Energy Policy calls for measures to increase global oil and natural gas production, new approaches to increase fuel economy, and mandatory actions that begin to address global warming. The plan also includes incentives to expand renewable energy, clean coal, and advanced nuclear power. Story at: http://biz.yahoo.com/prnews/041208/nyw027_1.html
<http://energycommission.org/>

12-8-04 More on Sun Power & Geothermal Energy in South Korea

Sun Power & Geothermal Energy Co. Inc. has been contracted to build a 15-MW PV installation in South Korea starting sometime around February. Story at Photon International: http://www.photon-magazine.com/news/news_2004-12%20ap%20sn%20Korea.htm
Sun Power & Geothermal Energy: <http://sunpowergeo.com/>

12-8-04 Pennsylvania Clean Energy

Pennsylvania Governor Edward Rendell signed into law a clean-energy portfolio standard. The law establishes a two-tiered portfolio that ensures that in 15 years, 18% of all energy generated in Pennsylvania comes from clean, efficient sources. Story at: http://biz.yahoo.com/prnews/041207/phtu018_1.html
Also, see EERE Network News [Kevin Eber] at: <http://www.eere.energy.gov/news/#8688>

12-8-04 Green Mountain Energy Pollution Free Electricity Product

Green Mountain Energy Company introduced a new product for Texas residential customers - Pollution Free electricity from Green Mountain Energy Company. The new Pollution Free product is priced at the local utility's "Price to Beat" so residential customers in Texas' competitive markets can now purchase clean electricity at no additional cost over the price charged by their local electric utility. Story at: http://biz.yahoo.com/bw/041208/85020_1.html
Green Mountain Energy: <http://www.greenmountain.com/>

12-8-04 Japanese Solar Assistance to Nigeria

The Japanese government has accepted a request from Nigeria to assist with solar powered energy in rural areas. Story through Solarbuzz at: <http://www.centreforenergy.com/displayNewsArticle.asp?From=NewsSearch&Search=solar&ResultCategoryType=ALL&NewsPageID=5&NewsID=3140498&template=2,5&currPage=1>

12-8-04 Research and Markets Report - Nanoengineering

Research and Markets has announced the addition of Nano-engineered Energy Markets: New Opportunities for Electricity Generation and Transmission, Local Power Storage and Alternative Energy Sources. Per the announcement, nanoengineering is breathing new life into alternative

energy sources - especially solar power and fuel cells. These renewable energy sources may eventually play a significant role both in alleviating demand pressure on the grid and as direct sources of power for the grid itself. Story at: http://biz.yahoo.com/bw/041208/85039_1.html
Research and Markets: <http://www.researchandmarkets.com/reports/c10792/>

12-8-04 DayStar Financing

For an article in Photon International on DayStar financing, see: http://www.photon-magazine.com/news/news_2004-12_am%20sn%20Daystar.htm
DayStar: <http://www.daystartech.com/>

12-8-04 Renewable Energy Ware [Scott Sklar]

Reware is introducing "messaging" products to popularize renewable energy and energy efficiency. The first items are a line of t-shirts promoting biodiesel, solar power and wind power. To see more, visit: <http://www.rewarestore.com/>

12-7-04 Evergreen Solar Thin Silicon Wafer

Evergreen Solar, Inc. announced an advance in the development of its String Ribbon(tm) (String Ribbon(TM) is a trademark of Evergreen Solar, Inc.) manufacturing process that has the potential to produce silicon wafers thinner than 150 microns. The company has filed a patent application for its thin wafer technology. More on these developments at:

http://biz.yahoo.com/bw/041207/75437_1.html
<http://www.e4engineering.com/story.aspx?uid=e2bdd3a7-9518-4c1d-b599-6097f24b8d99&cuid=b5340488-9763-4f92-aab7-72dcc685c582>
<http://cbs.marketwatch.com/news/newsfinder/pulseone.asp?dateid=38328.325983044-829045763&siteID=mktw&scid=0&doctype=806&property=symb&value=&categories=&>
<http://cbs.marketwatch.com/tools/quotes/quotes.asp?symb=ESLR&siteid=mktw>

Evergreen Solar: <http://www.evergreensolar.com/>

12-7-04 Hydrogen Solar Grant

Hydrogen Solar Ltd, a UK-based hydrogen production research and development company, has been awarded \$400,000 by the University of Nevada Las Vegas Research Foundation for the first year of a multi-year project to demonstrate solar hydrogen production using "Tandem Cells". The Tandem Cell is a solar-based technology for producing inexpensive, carbon-free hydrogen; Hydrogen Solar Ltd owns the world wide exclusive rights. Stories at Clean Edge (12/7): <http://www.cleandedge.com/news-listing.php> and

http://www.wired.com/news/technology/0,1282,65936,00.html?tw=wn_tophead_1

Hydrogen Solar: <http://www.hydrogensolar.com/>

12-7-04 Konarka Advisors

Konarka Technologies, Inc. announced that Dr. Charles Gay and Dr. Thomas Grandke joined the Company as advisors. Drs. Gay and Grandke will offer strategic guidance about Konarka's product development, research efforts, and key markets to the senior management team. Story at: http://biz.yahoo.com/bw/041207/75527_1.html

Konarka: <http://www.konarka.com/>

12-7-04 Philippines PV [Gunter Schramm]

A 1-MW PV power plant has been commissioned by CEPALCO, the Cagayan Electric Power and Light Company of Cagayan de Oro, in Northern Mindanao in the Philippines. The plant was designed to operate in conjunction with a 7 MW hydropower plant, which serves to even out energy fluctuations from the PV plant, thereby providing firm energy that supplies peak load power to a day-time-sub-distribution feeder. The plant was built by Sumitomo and uses Sharp

PV modules. More information at:

http://beta.ing7.net/regions/index.php?index=1&story_id=19529

<http://www.sunstar.com.ph/> (search on CEPALCO to access article 11/26)

GEF, see "Building the Philippines' Capacity for Grid-Connected Solar Power":

http://thegef.org/Whats_New/whats_new.html

12-7-04 More on Nextek Power Systems CEC Approval

The California Energy Commission has listed a new technology from Nextek Power Systems. The NPS-1000 offers an efficient way to use the power produced by renewable energy sources such as solar panels, fuel cells, and others. For more on these systems, see:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=NewsSearch&Search=&ResultCategoryType=2,7&NewsPageID=5&NewsID=3121663&template=2,2&currPage=1>

<http://www.centreforenergy.com/displayNewsArticle.asp?From=NewsSearch&Search=&ResultCategoryType=2,7&NewsPageID=5&NewsID=3119054&template=2,2&currPage=1>

Nextek: <http://www.nextekpower.com/>

12-7-04 Australia's Solar Cities

Solar Cities, announced by Australia's Prime Minister in the Energy White Paper in June, is an initiative where solar power, energy management and electricity pricing mechanisms combine to deliver a clean energy future. Just released as part of the Solar Cities trial is the Solar Cities Statement of Challenges and Opportunities setting out the scope of the programme and guidelines for comment. A trial will be established in Adelaide and at least 3 other grid-connected urban sites around Australia. Stories at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASGO62.htm> and RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story?id=19587>

12-7-04 PV Market in Japan [Izumi Kaizuka]

RTS Corporation has published an annual report entitled "PV Market in Japan 2004/2005 - Current Topics and Future Prospects". The report summarizes the current situation and dissemination policies, and PV players in Japan, from suppliers of silicon feedstock, ingots and wafers to PV system integrators. The contents are mainly based on RTS Corporation's monthly report "PV Activities in Japan", published since 1995. For information and further description of the report (pdf announcement), contact Izumi Kaizuka, RTS Corporation, Tokyo, Japan, email: info@rts-pv.com

12-7-04 Renewable Energy Purchases

The World Resources Institute and members of its Green Power Market Development Group announced 62 MW of new renewable energy purchases and projects. The announcement was made at the American Council on Renewable Energy's "Renewable Energy in America: The Call for Phase II" summit on Capital Hill. Story at: http://biz.yahoo.com/bw/041207/75684_1.html
Green Power Market Development Group: <http://www.thegreenpowergroup.org/>

12-7-04 Solar-powered Lights in New Jersey

The Federal Aviation Administration's Airport Safety Technology Section will install and test solar-powered taxiway lights at Cross Keys Airport in Gloucester County, New Jersey. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO217.htm>

12-7-04 Xantrex Training

Xantrex Technology Inc. announced that the product training program for its new GT 3.0 Grid Tie Solar Inverter has been approved by the North American Board of Certified Energy Practitioners for continuing education credits. Information at:

<http://www.renewableenergyaccess.com/rea/market/business/viewstory?id=19562>
NABCEP: <http://www.nabcep.org/>

12-7-04 FY 2005 Energy Appropriations

Yesterday, the House removed the controversial IRS provision from the Omnibus bill, clearing the bill for the President's signature. Energy & Water Development appropriations are included in the bill.

12-6-04 Shell Solar Contract

Shell Solar Industries has been awarded a contract by Semitropic Water Storage District of Wasco, California, to design and install a PV array. Shell Solar engineers have designed a patent-pending "Single Axis Tracking System" for nearly one MW of solar panels. The structure will contain 1,920 Shell PV panels. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsNAPR442.htm> and RenewableEnergyAccess
<http://www.renewableenergyaccess.com/rea/news/story;jsessionid=a6yddEdu42d?id=19543>
Shell Solar: <http://www.shell.com/home/Framework?siteId=shellsolar>

12-6-04 BP Solar Expansion

BP Solar International is planning a \$25 million expansion of their Maryland manufacturing plant and plans to add 115 jobs. Press at: http://biz.yahoo.com/bw/041129/295129_1.html and <http://msnbc.msn.com/id/6657879/>

BP Solar: <http://www.bpsolar.com/ContentMap.cfm?page=10>

12-6-04 Postal Service Renewable Energy

The U.S. Postal Service announced that Chevron Energy Solutions will complete major energy efficiency upgrades and a hybrid renewable power plant - including a fuel cell and 2 solar electric technologies - at USPS's processing and distribution facilities in San Francisco, California. The installations will include a new hybrid solar/fuel cell power plant, 185 kW of sun-tracking crystalline silicon solar panels on a parking canopy, and 100 kW of flexible amorphous silicon roof-mounted solar panels. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsNAPR445.htm>
Chevron Energy Solutions: <http://www.chevronenergy.com/>

12-6-04 More on GE Solar Systems in Zero Energy Homes

GE Energy's solar electric power systems are being installed in a Premier Homes' Zero Energy Homes (ZEH) community in Sacramento, California. This is the 3rd Premier Homes community to which GE Energy has supplied solar systems. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsNAPR444.htm>
GE Energy: http://www.gepower.com/prod_serv/products/solar/en/index.htm

12-6-04 Go-kart Track PV Canopy

An innovative PV canopy in London's East End represents the start of a new partnership between the Environment Trust and renewable energy supplier, Green Energy UK. A 110-kW canopy of hybrid, amorphous and polycrystalline PV panels made by Sanyo, together with translucent white and clear fabric panels, will cover a go-kart track and will be supported by an arched steel structure. For an artist rendition and the story, see RenewableEnergyAccess at:

<http://www.renewableenergyaccess.com/rea/news/story;jsessionid=a6yddEdu42d?id=19417>
Green Energy UK: <http://www.greenenergy.uk.com/>
The Environment Trust: <http://www.envirotrust.org/>
Mile End Park: <http://www.mileendpark.co.uk/autumn.htm>

12-6-04 MITRE Center PV

Construction of the MITRE Center —& a green building on the MITRE Corporation campus - began last September with a \$415,000 grant from the Commonwealth of Massachusetts' Renewable Energy Trust. The grant was used for several green projects, including an entrance canopy with 1,200 square feet of PV panels and a 1,700 square foot solar roof. Story at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story.jsessionid=a6yddEduq42d?id=19539>

12-6-04 Carmanah Order from Canada

Carmanah Technologies Corporation has received a contract to supply about \$650,000 in solar LED signs to a large Canadian retailer. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsNAPR443.htm>

Carmanah Technologies: <http://www.carmanah.com/>

12-6-04 Universal Communications Systems-Millennium Solar-powered Lighting

Universal Communications Systems Inc. subsidiary Millennium Electric T.O.U. Limited announced that the company has completed the first solar-powered lighting project for the Arab East Jerusalem Electricity Company. Story at: <http://biz.yahoo.com/iw/041130/076850.html>

Millennium: <http://www.millennium-electric-inc.com/>

UCSY: <http://www.ucsy.com/>

12-6-04 FPL Solar Energy Facility

Florida Power & Light plans to build a small solar energy facility in South Florida next year. FPL will build 150 kW of solar power in Florida for every 10,000 customers who sign up to pledge an additional \$9.75 on their monthly electric bills to support renewable energy through the company's Sunshine Energy program. Story through Solarbuzz at:

<http://www.theledger.com/apps/pbcs.dll/article?AID=/20041130/APF/411300537>

Sunshine Energy Program: http://www.fpl.com/home/services/contents/sunshine_energy.shtml

12-6-04 Sunways Cell Production in Germany

The construction of Sunways AG's new solar cell manufacturing plant in Arnstadt, Thuringia commenced 29 November and will create 60 new jobs. Mono- and multicrystalline solar cells will be manufactured at the 30 MW plant, with the possibility of expansion up to 80 MW. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsEUMA56.htm>

Sunways: <http://www.sunways.de/de/>

12-6-04 Aleo's Monocrystalline Solar Modules

Aleo Solar has introduced two new monocrystalline solar module products. More on these developments at Solarbuzz: <http://www.solarbuzz.com/news/NewsEUPT25.htm>

Aleo Solar: <http://www.aleo-solar.de/>

12-6-04 Solar Integrated Technologies Acquisition

Solar Integrated Technologies Inc. has agreed to buy a 30% stake in Dachland GmbH, a German-based installer of PV roofing solutions. CEO Edward Stevenson said this acquisition represents SIT's first initiative into the European marketplace and underlines the group's commitment to accelerate access to this key region. Story through Solarbuzz at:

<http://www.iii.co.uk/shares/?type=news&articleid=5128448&action=article>

Solar Integrated Technologies: <http://www.solarintegrated.com/>

12-6-04 SMA Technologies in Germany

SMA Technologie AG supplied the inverters for a solar park in Kaufbeuren, Bavaria, Germany commissioned by SolarWorld AG. About 13,000 polycrystalline SolarWorld modules and 8 Sunny Central inverters are operating in an area that the German Federal Armed Forces no longer uses for military purposes. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsEUPR193.htm>

SMA also announced that it will reduce the list prices for all Sunny Boy inverters by 5% throughout Europe. Press at Solarbuzz: <http://www.solarbuzz.com/news/NewsEUPT26.htm>
SMA Technologie AG: <http://www.sma.de/>

12-6-04 Xantrex Orders

Xantrex Technology Inc. has secured more than \$1 million in orders from U.S. solar distributors for the new Xantrex GT 3.0 Grid Tie Solar Inverter. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsNAPT95.htm>

Xantrex: <http://www.xantrex.com/>

12-6-04 UniRac License

Under the terms of an exclusive license agreement between UniRac, Inc. and Metal Roof Innovations, Inc., UniRac gains exclusive rights to manufacture an S-5!(tm)(S-5!(TM) is a trademark of the Metal Roof Innovations, Inc.) clamp for the North American PV market. The new S-5! PV clamp works in conjunction with UniRac's standard SolarMount(r) (SolarMount(R) is a registered trademark of UniRac, Inc.) top mounting module clamps. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsNAPT96.htm>

UniRac: <http://www.unirac.com/>

12-6-04 IT Power Award [Naomi Davidge]

IT Power was presented with the Communication Award by the Energy Institute for their recently completed ENTHUSE project, a project co-funded by the European Commission's Altener programme targeted at local authorities to raise awareness about renewable energy. For more on Enthuse and IT Power, see: <http://www.enthuse.info/>

IT Power: <http://www.itpower.co.uk/>

12-6-04 PV Station in China

A 1-MWp PV station is operating in China, built with an investment of 61.88 million yuan by the Shenzhen municipal government by Beijing Corona Science and Technology Co. under the Chinese Academy of Sciences. More than 100 deputies attending the 8th national PV conference visited the station on 17 November. Story through Solarbuzz at:

http://english1.people.com.cn/200411/25/eng20041125_165177.html

12-6-04 XsunX CEO on Analyst Report

XsunX CEO Tom Djokovich announced an in depth interview on World Talk Radio discussing the company's recent events and commercial future. XsunX Recently announced that their phase 2 development program is now moving to the development and testing of their process on thin-film plastics. An analyst report detailing the company and the semi-transparent PV glazing technologies industry is available on line at: <http://www.gaskinsco.com/linkto-xsunx.shtml>

World Talk Radio: <http://www.worldtalkradio.com/archive.asp?aid=2940>

Story at: http://biz.yahoo.com/bw/041201/15211_1.html

XsunX: <http://www.XsunX.com/>

12-6-04 ARISE Technologies Funding

ARISE Technologies Corporation announced 3rd quarter financial results, and also announced that it has secured an additional round of over \$200,000 of funding and debt conversions through several transactions that will require TSX Venture Exchange approval. Press at:

http://biz.yahoo.com/bw/041129/295814_1.html

ARISE: <http://www.arisetech.com/>

12-6-04 Sustainable Energy Technologies Financing

Sustainable Energy Technologies Ltd. announced it has completed an equity issue of 156 Units of Solar Markets Limited Partnership for gross proceeds of \$1,560,000. The net proceeds will be used to commence commercial production of the Company's SUNERGY 5, a 5-kW grid interactive inverter for North American solar power markets, as well as to develop further product applications for the Sunergy platform in North America and Europe, and to develop product applications for emerging stationary fuel cell markets. More at:

http://biz.yahoo.com/ccn/041130/899e85263e858b2c98045285291b2e2b_1.html

Sustainable Energy Technologies: <http://www.sustainableenergy.com/SET-home/index.html>

12-6-04 Research Reports International Green Power Report

Research Reports International is offering the 2nd Edition of its International Green Power Report, with a focus on the US, Canada, Europe and Australia. Information at:

http://www.researchreportsintl.com/products/product.cfm?report_ID=59

12-6-04 FY 2005 Energy Appropriations

The House is meeting today to remove a controversial tax provision from the Omnibus bill - the massive bill that contains the Energy and Water Development FY2005 appropriations - before the bill can go to the President for signature. Meanwhile, agencies funded under the bill are on a continuing resolution through December 8.

NOVEMBER

The NCPV Hotline will be off line 25 November through 5 December.

11-23-04 Japan, Kubota Roof-integrated Solar Power System

Kubota has had its roof-integrated solar power system "Ecolony" adapted in the houses to be constructed in Jo-Town Rinku Hawaiian Village, to be developed by Osaka-based real estate company Jo Corporation. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASPR123.htm>

11-23-04 Solar Energy Equipment Production

A Danish company with operations in Ho Chi Minh City is examining the prospect of manufacturing solar energy equipment in Vietnam, and the Danish International Development Agency has provided \$80,000 for the initial stage of the project. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2920113&ResultCategoryType=2,7&NewsPageID=3>

11-23-04 Solar Decathlon

The Cornell Solar Decathlon team is well underway in its design and construction of an energy-efficient, entirely solar-powered home, in preparation for participation in the 2005 Solar Decathlon Competition. Story at:

<http://www.cornellsun.com/vnews/display.v/ART/2004/11/24/41a41a2bc8099>

Solar Decathlon: http://www.eere.energy.gov/solar_decathlon/

11-23-04 Solar Training in New York

The New York State Energy Research and Development Authority is providing \$740,000 to fund a statewide effort to train union workers to install solar power technology. Press at:

http://albany.bizjournals.com/albany/stories/2004/11/22/daily14.html?jst=b_in_hl and

<http://www.timesunion.com/AspStories/story.asp?storyID=308025&category=BUSINESS&BCCo de=&newsdate=11/24/2004&tacodalogin=no>

11-23-04 PV Specialists Conference and Exhibition

The dates of the IEEE conference and exhibition are 3-7 January 2005, in Lake Buena Vista, Florida. Information at: <http://www.meetingassistant.com/PVSC/index.php>

11-23-04 Research and Markets Reports

The Renewable, Alternative & Hydrogen Energy Industry Almanac from Research and Markets (including a database of companies on CD-ROM) is an alternative and renewable energy market research and business intelligence tool - with information on the business of clean energy. Information on the report can be found at:

<http://www.researchandmarkets.com/reports/c9863/>. The 4th Edition of the Venture Capital In the Energy Industry report offers a detailed look at venture capital funding of emerging energy technologies. See: http://biz.yahoo.com/bw/041124/245217_1.html

11-23-04 Bud Annan Award

The U.S. DOE's National Renewable Energy Laboratory presented the 2004 Paul Rappaport Renewable Energy and Energy Efficiency Award to Robert "Bud" Annan, who oversaw government-sponsored research into solar energy for more than 20 years. Said NREL Director Richard Truly, "Bud Annan has long been a driving force for solar energy. He nurtured solar electric technologies from a time when they were little-known and prohibitively expensive, into

the fast-growing, dynamic industry we see today." Since his retirement from DOE, Annan has relocated to Scottsdale, Arizona, and worked diligently in support of public policy initiatives that are increasing the contributions solar energy is making in Arizona, Nevada, New Mexico and California. Press at: http://www.eurekalert.org/pub_releases/2004-11/drel-nrs112404.php

11-23-04 Princeton Award

Princeton University's Princeton Institute for the Science and Technology of Materials (PRISM) teamed up Global Photonic Energy Corporation and The Princeton Environmental Institute to offer a thesis-level prize for upcoming solar PV developers. "The Global Photonic Energy Corporation, Edith & Martin B. Stein Solar Energy Innovation Award" is being established to encourage and recognize young innovators at both the undergraduate and graduate levels at Princeton University. More at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story?id=19067>

11-23-04 Exporter of the Year Award [Bill Eggertson]

According to the Canadian Association for Renewable Energies, a company involved in solar simulation and PV manufacturing has been nominated as a finalist in the "Exporter of the Year Award". Winners will be announced 2 December. The company tests solar cells and solar modules, as well as solar array simulators using power output for different operating conditions. This and other news at: <http://www.renewables.ca/main/main.php>

11-23-04 U.S. FY 2005 Energy Appropriations

According to the newswires, the Omnibus bill, which includes Energy & Water Development, has not yet been sent to the President to sign. A vote scheduled by the House today to remove a controversial tax returns provision has been postponed to December 6, and instead the House and Senate will vote today to extend the Continuing Resolution to December 8.

In related news...

11-23-04 Solar Hot Water

A number of innovative companies and utilities are providing leadership and initiatives for meeting hot water needs through solar energy. For examples, see EERE Network News [Kevin Eber] at: <http://www.eere.energy.gov/news/#8293>

EERE News: <http://www.eere.energy.gov/news/>

11-23-04 Alternative Energy Consortium

Altair Nanotechnologies, Inc., in collaboration with the University of Nevada Las Vegas Research Foundation and Hydrogen Solar LLC, announced the consortium has received a \$3 million grant award from the U.S. DOE. The fund is for joint research activities related to solar hydrogen production at a refilling station that is under development in Las Vegas. Additional project partners include University of Nevada Center for Energy Research, Proton Energy Systems, and the Las Vegas Valley Water District. Story at:

<http://biz.yahoo.com/iw/041123/076565.html>

11-23-04 Retooling Solar

For an article in the Wall Street Journal titled "Researchers Shine Light on Ways to Retool Solar Energy Receptors", see the Konarka website at:

http://www.konarka.com/news_and_events/konarka_articles/2004/11_november/wsj/researcher_shine_light.php

11-23-04 More on ACORE "Phase II" Conference

The American Council On Renewable Energy (ACORE) and the Environmental and Energy

Studies Institute (EESI) announced that over 40 organizations have endorsed the conference calling for Phase II of renewable energy in America, 6-7 December 2004 in Washington, D.C. Story at RenewableEnergyAccess:

http://www.renewableenergyaccess.com/rea/market/business/viewstory;jsessionid=a5_wtJeUwqLg?id=18945

ACORE: <http://www.acore.org/>

11-23-04 Solar Trend 2005

Solar Trend 2005 will take place 22-23 April 2005 in Atlanta, Georgia. For information on the conference and expo, see: <http://www.solartrend2005.com/index.html>

11-23-04 More on BioHaus BIPV

For more on BIPV for the BioHaus office in Germany, see the article and photo at RenewableEnergyAccess:

http://www.renewableenergyaccess.com/rea/news/story;jsessionid=a5_wtJeUwqLg?id=19018

BioHaus (biosol.org): <http://www.biosol.org/biosol-start-englisch/framee.htm>

11-23-04 GT Equipment Growth

GT Equipment Technologies announced a financing package of \$9.5 million from Wells Fargo to fund growth in its solar energy business. The growth is in the solar energy division, GT Solar Technologies, which has record bookings of business in 2004. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNACO261.htm>

GT Solar Technologies: <http://www.gtsolar.com/>

11-23-04 USDA PV Systems

The USDA Photovoltaic Systems site can be accessed at:

<http://www.usda.gov/rus/electric/pv/index.htm>

11-23-04 Renewables Guidebook [Bob Aldrich]

The draft 4th Edition of the Emerging Renewables Program Guidebook, and the Committee Decision Document on Performance-Based Incentive Program, for the December 1 workshop are available at: http://www.energy.ca.gov/renewables/emerging_update/

11-23-04 Additional Coverage of UK PV Project

Researchers in the UK are looking to reduce the cost of solar power under an \$8 million grant from the UK SuperGen program administered by the UK's Engineering and Physical Sciences Research Council and managed by Professor Stuart Irvine of the University of Wales, Bangor. Press at:

http://www.eurekaalert.org/pub_releases/2004-11/bis-stc112204.php

11-23-04 Sharp Positions [Victor Gideon]

Sharp's Solar Systems Division is looking for a Manager of Project Development, and a Manager of New Construction Development. Contact Victor C. Gideon, vcg@maine.rr.com, 800-300-7445. For other renewables job listings see also sites such as RenewableEnergyAccess

<http://www.renewableenergyaccess.com/rea/jobs/home> company websites, such as DayStar

<http://www.daystartech.com/jobs.htm> and magazines such as Photon International

<http://www.photon-magazine.com/job/job.htm>

11-22-04 Germany, JAB Anstoetz PV System

A rooftop PV system with 2,697 modules has been installed on the JAB Anstoetz Group's building in Oldentrup. At the inauguration, Hermann de Jong, deputy managing director Schuco International KG, said the new system is the largest flat-roof PV installation of its kind in northern Germany. Story at Solarbuzz: <http://www.solarbuzz.com/news/NewsEUPR192.htm>

Schuco International:

http://www.schueco.de/new_cda/index/1,11984,3034392d45472d392d322d323730392d535444.00.html

11-22-04 Performance of Organic PV Cells

Global Photonic Energy Corporation announced that the company's research partner at Princeton University has achieved a new record in power conversion efficiency with a novel "Hybrid Planar-Mixed Molecular Heterojunction" (Hybrid PM2-HJ(tm) is a trademark of Global Photonic Energy Corporation) organic material structure. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsNATE27.htm>

Global Photonic Energy Corporation: <http://www.globalphotonic.com/>

11-22-04 More on Pennsylvania Alternative Energy Bill

The Pennsylvania State Senate and House have approved the Alternative Energy Portfolio Standards Act, with the backing of Governor Rendell and Secretary of Environmental Protection Kathleen McGinty. Stories at Solarbuzz: <http://www.solarbuzz.com/news/NewsNAGO213.htm> and

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2881393&ResultCategoryType=2.7&NewsPageID=3>

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2864667&ResultCategoryType=2.7&NewsPageID=3>

11-22-04 WorldWater Contract

WorldWater & Power Corporation has finalized a contract to install a 57-horsepower solar-powered pumping system at the Idyllwild Water District in Idyllwild, California. Story at:

http://biz.yahoo.com/bw/041122/225300_1.html

WorldWater: <http://www.worldwater.com/>

11-22-04 PowerFilm

PowerFilm, made by Iowa Thin Film Technologies, is featured in the engadget posting at:

<http://www.engadget.com/entry/1234000350021169/>

Iowa Thin Film Technologies: <http://www.iowathinfilm.com/>

11-22-04 DayStar Featured

DayStar Technologies announced that Dr. John Tuttle, president and chief executive officer, will be featured on "Tech Valley Report", a weekly TV program. Information at:

http://biz.yahoo.com/prnews/041122/sfm011_1.html

DayStar: <http://www.daystartech.com/aboutus.htm>

11-22-04 On-site Residential Power Systems Markets

For those interested in an analysis providing manufacturers, end users, and other industry participants with an overview, summary, challenges, and the latest coverage of the North American Onsite Residential Power Systems Markets, see the article at:

http://biz.yahoo.com/bw/041122/225095_1.html

According to the article, for the new home construction market, manufacturers need to forge partnerships with homebuilders, providing evidence of demand for onsite power. For example, large savings on utility bills and contributions to a green environment are obvious selling points for PV, while security, peace of mind, and convenience are key selling points for generator sets for emergency power.

11-22-04 More on Lakshadweep PV

Lakshadweep, an island chain off the Southwest coast of India is installing roughly one MW of PV. See story and photo at RenewableEnergyAccess:
<http://www.renewableenergyaccess.com/rea/news/story?id=18952>

11-22-04 Renewable Energy & Hydrogen

For Jesse Broehl's article on renewable energy and hydrogen, see RenewableEnergyAccess at:
<http://www.renewableenergyaccess.com/rea/news/story;jsessionid=a96lqForWzSq?id=18953>

11-22-04 U.S. FY 2005 Energy Appropriations

The Omnibus bill passed over the weekend. The currently posted conference report shows a total of \$86,533,000 for solar energy with the following language applied to this total: The Southeast and Southwest photovoltaic stations are to be funded at current year levels, and the conferees direct the Department to continue to support the public-private Million Solar Roofs program. The conferees include \$6,000,000 from within available funds for concentrating solar power. Within the \$86,533,000 the conference agreement provides \$200,000 for photovoltaic panels for the Mark Twain House and Museum; \$750,000 for the Solar Technology Center at the University of Nevada-Las Vegas; \$1,500,000 for Photonics Research and Development at the University of Nevada-Las Vegas; \$4,500,000 for evaluation of solar-powered thermo-chemical production of hydrogen for the University of Nevada-Las Vegas; \$400,000 for the University of Louisville Sustainable Buildings project; \$1,500,000 for the Conductive Coatings for Solar Cells project; and \$250,000 for the Town of Yucca Valley solar energy project (CA).

11-19-04 SunPower's Solar Cells in BioHaus Façade

SunPower Corp announced completion of the first building integrated PV (BIPV) system using its A-300 high efficiency solar cells, in an office building opened in Paderborn, Germany and being occupied by BioHaus - a manufacturer and distributor of solar-electric modules and inverters. SunPower's A-300 solar cells were encapsulated between sheets of glass by Saint Gobain Glass Solar and integrated into the building's rounded south façade. The building also has solar panels on its southeast and southwest walls and roof. Story at:

http://biz.yahoo.com/bw/041119/195148_1.html

SunPower: <http://www.sunpowercorp.com/html/>

Photo access: http://www.cypress.com/support/more_resources.cfm?objectID=8F85D97D-B263-47F8-8E3D16DC43F0476D&fname=&tid=00014FC7-D1D8-1D7C-98E680D254FFFE9F

11-19-04 HOMER Training

Participants from Chile, Honduras, El Salvador, Guatemala, Nicaragua, Costa Rica, Cuba, Canada, and Brazil attended a HOMER training session in Guatemala as part of a roll-out of NREL's Solar and Wind Energy Resource Assessment products and services. HOMER is an optimization model for distributed power. This, and more news, in the Global Village Energy Partnership Newsletter: <http://www.gvep.org/>
HOMER: <http://www.nrel.gov/homer>

11-19-04 California Workshop [Farideh Namjou]

The California Energy Commission's Renewables Committee will conduct a workshop December 1 seeking public comment on a proposed pilot Performance-Based Incentive program and other changes to the Emerging Renewables Program Guidebook. Information at: http://www.energy.ca.gov/renewables/02-REN-1038/notices/2004-11-18_cmte_workshop.html

11-19-04 Interstate Renewable Energy Council Newsletter [Jane Pulaski]

For information on schools going solar, interconnection and net metering, incentives, community outreach, training and certification, and other topics, see the IREC website and newsletters at: <http://www.irecusa.org>

11-19-04 Solar in China

Per the Qinghai provincial water resource department, Qinghai has set up 9 PV stations. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2840402&ResultCategoryType=2.7&NewsPageID=3>

11-19-04 U.S. FY 2005 Energy Appropriations

In a change of direction prompted by Congressional leaders, negotiators are now working to include the Energy & Water Development appropriations in the Omnibus bill, which rolls up the unfinished FY 2005 appropriations bills. Per the newswires, votes on the Omnibus bill may extend into the weekend.

11-18-04 PVWATTS

Recent enhancements to PVWATTS - Internet-based software developed at NREL that calculates energy production and cost savings for grid-connected PV systems in the U.S. and its territories - are described in November 15's DOE Pulse at:

http://www.ornl.gov/info/news/pulse/pulse_v171_04.htm

11-18-04 Thai Solar Development

Electricity Generating Holding Plc (Ratchaburi) has scrapped plans to take a 20% stake in solar energy company, Solartron Co., which had won a 1.4-billion-baht contract from the Provincial Electricity Authority. Story through Solarbuzz <http://www.solarbuzz.com/index.asp> at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2821895&ResultCategoryType=2.7&NewsPageID=3>

11-18-04 Canadian Green Power [Bill Eggertson]

The Ontario government has selected winning proposals from its RFP to supply 300 MW of green power, and will announce the list this month after contracts are signed. This, and more renewables news at RENEWABLES.CA: <http://www.renewables.ca/main/main.php>

11-18-04 NASA Contracts

Colorado researchers will receive up to \$130 million from NASA to develop new tools and technologies needed to send astronauts back to the moon, including a project at ITN Energy Systems to develop flexible, lightweight solar arrays that can be folded into small packages for a moon launch. Stories at:

http://rockymountainnews.com/drmn/state/article/0,1299,DRMN_21_3336390,00.html

<http://www.denverpost.com/Stories/0,1413,36~53~2541901,00.html>

ITN: <http://www.itnes.com/>

11-18-04 Thin-Film Solar Cells

For a reference to "Thin-Film Solar Cells", Y. Hamakawa, Editor, Springer-Verlag New York Inc., see the last entry in the list at:

<http://www.memagazine.org/contents/current/departments/bookshelf/bookshelf.html?IMAGE.X=20&IMAGE.Y=15>

11-18-04 Pennsylvania Alternative Energy

By 2020, utilities would be required to provide 18% of the electricity for Pennsylvania from

alternative sources like wind, solar, and waste coal under a bill approved by the state Senate early today. The bill still needs House approval. Story at:

<http://www.centredaily.com/mld/centredaily/news/politics/10209877.htm>

11-18-04 Phase Two of Renewable Energy

"After 30 years of outstanding effort by our country's best scientists and engineers, it is time to declare an interim success in our nation's RD&D program for renewable energy", says Dan Reicher at New Energy Capital and co-chair of the advisory board of the American Council On Renewable Energy. "We now have many technology options that can help address the nation's energy challenges. It is time to put these technologies to work in the market place, while we continue their advancement in the laboratory". ACORE and the Renewable Energy & Energy Efficiency Caucuses of the Senate and House will call for 'phase two' of renewable energy at a conference in early December. Story and link to the details at ReFocus:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=84745425&accnum=1&topics=

ACORE: <http://www.acore.org/>

New Energy Capital: <http://www.newenergycapital.com/>

11-18-04 ReFocus Renewables News

For additional renewables news see ReFocus News-in-Brief at:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=42100161&accnum=1&topics=

11-18-04 Research Reports International's Distributed Generation Report

Research Reports International is offering the 5th Edition of its "Distributed Generation: Technologies, Opportunities, and Participants" report. Information at:

http://www.researchreportsintl.com/products/product.cfm?report_ID=54

In related news...

11-18-04 South Carolina Solar

The South Carolina Energy Office is looking for applicants to apply by December 10 for the second round of funding through the Public Building Solar Initiative. Grants will be awarded for 75% of the cost of designing and installing a solar water-heating system and purchasing a 5-year service contract, up to a maximum of \$25,000. Story at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story?id=18859>

Public Building Solar Initiative:

http://www.state.sc.us/energy/Renewable%20energy/solar_grant.htm

11-18-04 Solar Energy Sites in New Mexico

New Mexico Governor Bill Richardson commissioned a Solar Power Task Force in April to look at available locations for a CSP plant, and the first 5 potential sites have been identified. Story at RenewableEnergyAccess: <http://www.renewableenergyaccess.com/rea/news/story?id=18928>

New Mexico Energy, Minerals and Natural Resources Department:

<http://www.emnrd.state.nm.us/>

11-18-04 Solar Thermal Capacity

According to a new IEA report, solar thermal systems provide 70,000 MWth of thermal energy around the world. Information at ReFocus:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=48322696&accnum=1&topics=

http://www.estif.org/index.php?id=46&backPID=2&pS=1&tt_news=25

11-18-04 Kyoto Protocol

Russia has formally ratified the Kyoto Protocol, clearing the way for the international environment accord to be in force early next year. The U.N. accord, backed by 126 countries, formally comes into force 90 days after today's filing of the Russian ratification documents with the U.N. Story at:

<http://www.reuters.co.uk/newsPackageArticle.jhtml?type=topNews&storyID=623343&ion=news>

11-18-04 U.S. FY 2005 Energy Appropriations

A Continuing Resolution for Energy & Water Development appropriations is being drafted as a component of the Omnibus bill, which rolls up other unfinished appropriations bills, and could last until February or May thereby giving the new Congress time to address the Yucca Mountain funding issues.

11-18-04 Zero Emissions, Zero Waste Concert

Julia "Butterfly" Hill's second annual "We the Planet" concert described as the most eco-friendly indoor concert ever produced utilized compostable food ware, and biodiesel fuel and solar energy to run the generators, as well as other environment friendly technology. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=2818324&ResultCategoryType=2,7&NewsPageID=3>

11-17-04 GE Global Research Hydrogen Projects

GE Global Research announced it was selected by the Department of Energy to lead \$11 million of research projects in the production of hydrogen. GE will contribute about \$2.5 million to the projects, with the balance coming from DOE and other industry partners. One of the projects is in conjunction with the California Institute of Technology to discover materials and develop designs for a solar-to-hydrogen system using a photoelectrochemical process. Story at:

http://biz.yahoo.com/bw/041117/175082_1.html

GE Global Research: <http://www.research.ge.com/>

11-17-04 Spain, PV Module Manufacturer

Solaria Energia y Medio Ambiente S.L. plans to start production in February 2005 at their 15-MW-capacity solar module factory, which is under construction about 200 km south of Madrid.

Story at Photon International: http://www.photon-magazine.com/news/news_2004-11_eu%20sn%20Solaria.htm

Solaria Energia: <http://www.solariaenergia.com/>

11-17-04 Apollon Solar Module Concept

Apollon Solar's NICE concept for manufacturing solar modules employs a method based on insulation glass windows. The modules are manufactured without EVA and Tedlar sheets, and the electrical contacts are created without soldering. Story at Photon International at:

http://www.photon-magazine.com/news/news_2004-11_%20eu%20feat%20Apollon.htm

Apollon Solar: <http://www.apollonsolar.com/>

11-17-04 Photowatt Modules

Starting in January 2005, Photowatt will move the electrical connection of the solar cell strings onto the reverse side for module types within the PW5 and PW6 range. With a reduction in the spacing between cells being implemented at the same time, the module surface area will become smaller making the product more attractive and efficient. Story at Photon International:

http://www.photon-magazine.com/products/products_2004-11_ww%20np%20sn%20Photowatt%20module.htm

Photowatt:

http://www.photowatt.com/home/home_uk.php?page=../press/press_uk.htm&PHPSESSID=3903c93e664b491c0162f1c3103619cd

11-17-04 Photon International Coverage

Among the features in November 2004 Photon International (subscription) are a market survey of building integrated solar modules, followed by 8 pages describing various products, and articles on the first crystalline silicon thin-film module factory, thin films "in detail" (including amorphous silicon, cadmium telluride, and copper-indium-diselenide), and others. See table of contents at Photon International: http://www.photon-magazine.com/photon/news_issue_2004-11.htm

11-17-04 Nextek Power Systems Listing [Mark Robinson]

Nextek Power Systems announced that their product is now listed on the California Energy Commission's website in the list of Eligible Inverters for Solar Energy Systems. Although not actually an inverter, the NPS-1000 is commonly used in commercial solar system installations instead of an inverter. The Nextek product increases system efficiency, provides backup lighting, and eliminates the need for a utility interconnect agreement. Press at:

<http://www.nextekpower.com/>

CEC List: http://www.consumerenergycenter.com/cgi-bin/eligible_inverters.cgi

11-17-04 More on Q-Cells Solar Factory

Q-Cells is expanding its production capacity from 170 MWp to 320 MWp, creating 100 new jobs. For press releases (some in German), see: http://www.q-cells.com/2_eng.php

11-17-04 WorldWater & Power 3rd Quarter Results

WorldWater & Power Corporation announced financial results for its 3rd quarter and 9 months ending 30 September. Said Quentin T. Kelly, WorldWater Chairman and CEO, "The Company has generated record revenue this year, as evidenced by the significant increase in the year-to-date results. We have now put into place several important solar power projects that have demonstrated the commercial viability of our solar power products and services, and are beginning to realize the market potential of our proprietary technologies." Story at:

http://www.industrywatch.com/pages/iw/customer/Story.nsp?story_id=60304453&ID=iw&scategory=Internet&

WorldWater & Power: <http://www.worldwater.com/>

11-17-04 Connecticut Clean Energy Fund

The Connecticut Clean Energy fund is set to offer a free solar energy system to municipalities that commit to purchase clean energy representing over 20% of their municipal electricity use by 2010. Story at: http://www.masshightech.com/displayarticledetail.asp?Art_ID=67185

Connecticut Clean Energy Fund: <http://www.ctcleanenergy.com/>

For information on state renewables programs across the nation, see the Database of State Incentives for Renewable Energy (DSIRE) at:

<http://www.dsireusa.org/index.cfm?&CurrentPageID=3>

11-17-04 Solarcentury Award

At the annual "Inner City 100" awards ceremony in the City of London, solarcentury won 3 trophies. The Inner City 100 is an annual league table of the hundred fastest growing inner city companies. Story at: <http://www.solarcentury.co.uk/news/newsitem.jsp?newsid=401>

11-17-04 Research and Markets Renewables Report [Amy Cole]

Research & Markets' renewable report - "Renewable Energy Report Edition 1 2004" - is described at: <http://www.researchandmarkets.com/reports/c9476/>

11-17-04 U.S. FY 2005 Energy Appropriations

Negotiators are working on details of a Continuing Resolution for FY 2005 Energy & Water Development appropriations, which will last either through the end of the year or until January when the new Congress arrives.

11-16-04 United Solar Ovonic Agreement

United Solar Ovonic LLC announced it has signed a multi-year agreement with Biohaus PV Handels GmbH for sale of up to 9.6 MW of PV laminates. Biohaus will incorporate the UNI-SOLAR(R) (UNI-SOLAR(R) is a registered trademark of United Solar Ovonic LLC) (BIPV thin-film amorphous laminates with its proprietary panel design to address Germany's expanding grid-connected PV market. Story at: http://biz.yahoo.com/prnews/041116/detu020_1.html
Uni-Solar: <http://www.uni-solar.com/>

11-16-04 ISET at USC

Dr. Vijay K. Kapur, President and CEO of International Solar Electric Technology, Inc., was on the agenda to speak at the USC Viterbi School of Engineering, Department of Materials Science on technology for fabricating thin-film CIGS solar cells using low-cost printing. Per the announcement, the technology utilizes nanoparticle pigmented inks which can be printed onto rigid and flexible substrates for both terrestrial and space-power applications. Announcement at: <http://www.usc.edu/calendar/events/24075.html>
ISET News: <http://www.isetinc.com/news.html>

11-16-04 HelioVolt at Texas Event

HelioVolt CEO Dr. B.J. Stanbery is scheduled to address the First Texas Clean Energy Congress sponsored by the Texas Renewable Energy Industries Association on the topic of "Solar Cells and Modules on the Leading Edge", today at the Capitol in Austin. Press at: <http://www.heliovolta.com/treiaaddress.html>

11-16-04 European Commission PV Research

A press briefing today organized by the European Commission in Uppsala, Sweden, will provide insights into research breakthroughs in PV and bio-energy technologies. In project PROCIS, researchers from Sweden, Germany, France and Switzerland have developed a low-cost technology using alternatives to silicon to generate cheaper PV modules. In Project H-Alpha-Solar, researchers from France, Portugal and the Netherlands collaborated to develop new thin-film technology. Information at: [Http://europa.eu.int/rapid/pressReleasesAction.do?reference=IP/04/1368&format=HTML&aged=0&language=en&guiLanguage=en](http://europa.eu.int/rapid/pressReleasesAction.do?reference=IP/04/1368&format=HTML&aged=0&language=en&guiLanguage=en)

11-16-04 UK, PV Installations

More than 450 solar panels have been installed on a block of former council flats in Newcastle as part of a trial into domestic solar power generation. Your Homes Newcastle, the city's new housing management company, installed solar energy systems with help from the UK Business Council for Sustainable Energy. Story through Solarbuzz at: <http://news.bbc.co.uk/1/hi/england/tyne/4012605.stm>

Solar technology is a component of a scheme to transform one of UK's transport museums into a showcase for energy efficiency. The re-designed National Railway Museum was recently opened by Tony Blair who highlighted the importance of solar energy in the design of new

buildings. There's an array of BP Solar modules incorporated into the roofing system, and the solar electricity will be used to power interactive display points around the museum. Story at: <http://www.bpsolar.com/DisplayNews.cfm?id=95>

11-16-04 Komatsu Manufacturing Facility For Sale

Colliers International's Advanced Technology Real Estate Group announced it has been exclusively retained by the Park Company of Oregon to assist in the sale of the former Komatsu silicon wafer manufacturing facility and tools in Hillsboro, Oregon. Information at: http://biz.yahoo.com/prnews/041115/sfm148_1.html

11-16-04 Spire Corporation 3rd Quarter

Spire Corporation reported total net sales and revenues for the 3 months that ended 30 September 2004, as well as 9-month results. Said Roger Little, President and CEO, "Revenues for the quarter were slightly lower than those of the third quarter of 2003. This decrease was primarily due to the lower sales of our solar equipment. Offsetting this decrease were increases in our solar systems and continued gains in our Biomedical Products and Services area." Information at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO259.htm>
Spire Corporation: <http://www.spirecorp.com/>

11-16-04 EPIA, IEA-PVPS Member

The Photovoltaic Power Systems Programme is a collaborative R&D Agreement established within the International Energy Agency and conducting projects on the application of PV electricity. On 19 October, a meeting was held in Paris inaugurating the collaboration between the European PV Industry Association and IEA-PVPS. EPIA is now a sponsor member of the IEA-PVPS as well as a member of its executive committee. Information at: http://www.epia.org/09newsletter/newsletter_new.asp

11-16-04 European Renewables

An investment of Euro 443 billion is needed by 2020 if Europe is to meet its targets for renewable energies according to a marketing report produced by the European Renewable Energy Council. Story and links to report at ReFocus: http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=52575320&accnum=1&topics=

11-16-04 Green Power Tags Report

Research Reports International is offering the 3rd edition of its Green Power Tags Report, a 100-page study of the international green tag/certificate market. For information see: http://www.researchreportsintl.com/products/product.cfm?report_ID=58

11-15-04 GT Solar Technologies Contract

GT Solar Technologies announced it has signed a \$9.5 million contract with Boading Tianwei Yingli New Energy Resources Co., Ltd. for its Directionally Solidified Silicon furnaces to increase their capacity to over 50 MW of multicrystalline wafers. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsASMA42.htm>

GT Solar Technologies: <http://www.gtsolar.com/>

Boading Tianwei Yingli New Energy: <http://www.yinglisolar.com/>

11-15-04 Spain, Solar Plant in Basque Region

Three companies from the Basque Country have partnered to plan a 2-MW PV plant in the province of Vizcaya. For more information, see Solarbuzz at:

<http://www.solarbuzz.com/news/NewsEUPR188.htm>

11-15-04 Hong Kong Cultural Center Solar Panels

Hong Kong plans to build a new waterfront cultural center for \$3.09 billion, and successful tenders for the project must feature a soaring canopy of solar panels designed by British architect Norman Foster. Story through Solarbuzz at:

<http://feeds.bignewsnetwork.com/?sid=55825cdef595aaf7>

11-15-04 Sunways 3rd Quarter

Sunways AG achieved Group sales up 80% in the period 1 January to 30 September 2004. For more on these results, see Solarbuzz at: <http://www.solarbuzz.com/news/NewsEUCO152.htm>

Sunways: <http://www.sunways.de/de/>

11-15-04 Renewable Energy Project, Webinar Series

For Global Energy Decision's Renewable Energy Project Webinar Series information, which includes "Modeling Renewable Resources - A Fundamental Approach" 16 November, see the site at: <http://www.globalenergydecisions.com/>

11-15-04 Power-Gen Renewable Energy [Donna Welch]

The American Council on Renewable Energy (ACORE) is presenting Power-Gen Renewable Energy, 1-3 March, 2005 in Las Vegas, Nevada. For more information on the event and sponsors see: <http://pgr05.events.pennnet.com/>

11-15-04 California, San Diego Request for Proposal

The City of San Diego has issued a Request for Proposal for 1.3 MW of PV power. The City intends to enter into power purchase agreement(s) for up to 20 years with PV developer(s) at 8 sites. A pre-proposal conference and site visits will be held 8 December. For more information see Solarbuzz at: <http://www.solarbuzz.com/news/NewsNAPR439.htm>

City of San Diego: <http://www.sandiego.gov/environmental-services/>

11-15-04 Korea, Solar Cities Congress

Taegu City opened the first international Solar Cities Congress at the Exhibition and Convention Center. The Congress, which runs through 18 November, is a global conference on sustainable development through environment-friendly urban policies and renewable energies. Story at:

<http://times.hankooki.com/lpage/nation/200411/kt2004111517354911980.htm>

11-15-04 Ascendant Energy Co.'s RISE

Ascendant Energy Co. is in the final stages of negotiating a pilot installation for RISE, the company's rooftop solar electric cogenerator. Chris Straka's startup has developed a patent-pending technology that uses waste heat produced by a solar concentrator to help warm water or living space. Story at:

<http://pressherald.mainetoday.com/business/stories/041113ascendantene.shtml>

Ascendant Energy: http://www.ascendantenergy.com/ae_company.htm

11-15-04 Green Power Network Information on Requests for Proposals

For a listing of current green power RFPs referenced on the Green Power Network site, see:

<http://www.eere.energy.gov/greenpower/financial/>

11-15-04 U.S. FY 2005 Energy Appropriations

A likely scenario this week is that Congress will include a full-year (or perhaps partial year) Continuing Resolution for Energy & Water Development Appropriations in an Omnibus bill that wraps together the remaining appropriations bills not yet passed by Congress.

11-12-04 Evergreen Solar Board Chairman Now VP

Evergreen Solar, Inc. announced that Dr. Brown F. Williams, Chairman of the Board of Evergreen Solar, has resigned from the Board to become Vice President, Research and Development of the Company. Story at: http://biz.yahoo.com/prnews/041112/nyf024_1.html
Evergreen Solar: <http://www.evergreensolar.com/>

11-12-04 RWE SCHOTT PV System

RWE SCHOTT Solar and Felix Electric installed a new 145-kW PV system for their customer, Hills Flat Lumber Company, in Colfax, California. The system uses 528 RWE SCHOTT Solar ASE 300 Series modules, supported by a roof-mounted Unirac SunFrame, along with one SMA SunnyCentral 125 kW inverter and 8 SunnyBoy 2500 watt inverters. Fat Spaniel Technologies PV2WEB(tm) (PV2Web(TM) is a trademark of Fat Spaniel Technologies) software is used to monitor the system. Story at photos at: Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR438.htm>

RWE SCHOTT Solar: <http://www.rweschottsolar.com/>

11-12-04 Phonix SonnenStrom AG Going Public

Phonix SonnenStrom AG announced that about 5 million PHONIX "SONNENAKTIEN(r)" (SonnenAktien(R) is a registered trademark of Phonix SonnenStrom AG) shares will be traded over the counter at the stock exchanges of Munich, Frankfurt am Main and Berlin / Bremen.

Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUCO150.htm>

Phonix SonnenStrom: <http://www.sonnenstromag.de/>

11-12-04 Xantrex Order

Xantrex Technology Inc. received a purchase order from Total Energie France for Xantrex SW Plus Inverter/Chargers that will be used to supply off-grid solar and backup power to more than 50 telecommunications and Internet centers in isolated communities of Colombia. Said Mossadiq Umedaly, Chairman, "A key business objective for Xantrex is to expand its markets and distribution worldwide as well as grow its business outside of North America, with a long term goal to have over 40 percent of the company's revenue from international, non-North American markets." Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsSAPR29.htm> and RenewableEnergyAccess:

http://www.renewableenergyaccess.com/rea/news/story;jsessionid=asHHc8tV3go_?id=18648

Xantrex: <http://www.xantrex.com/>

11-12-04 PV Installation Workshop in New York

The Center for Sustainable Energy and Bronx Community College will hold a 3-day PV installation workshop at the Bronx Community College in New York starting 3 December 2004. Information at RenewableEnergyAccess:

http://www.renewableenergyaccess.com/rea/events/view;jsessionid=asHHc8tV3go_?id=18003

<http://www.bcc.cuny.edu/ContinuingProfessionalStudies/default.cfm>

11-12-04 Solaris Nanosciences Advisory Board

Solaris Nanosciences announced the Dr. Michael Graetzel has joined the company's Scientific Advisory Board. Said Dr. Graetzel, "I am pleased to be joining Solaris' Scientific Advisory Board. The field of nanotechnology is continuing to reach further into commercial products. Solaris' work in the application of nanomaterials as light harvesting antennas shows great potential for improving efficiencies of light energy conversion and making dye sensitized solar cells both technologically competitive and economically viable." Story at:

http://biz.yahoo.com/prnews/041111/neth001_1.html

Solaris Nanosciences: <http://www.solarisnano.com/>

11-12-04 More on Sandia - SES

Sandia National Laboratories and Stirling Energy Systems will build and test 6 new solar dish engine systems for electricity generation. Said Chuck Andrack, Sandia project leader, "This will be the largest array of solar dish-Stirling systems in the world. Ultimately SES envisions 20,000 systems to be placed in one or more solar dish farms and providing electricity to southwest U.S. utility companies." Story at RenewableEnergyAccess:

http://www.renewableenergyaccess.com/rea/news/story;jsessionid=asHHc8tV3go?_id=18652

Stirling Energy Systems: <http://www.stirlingenergy.com/default.asp>

Other coverage:

http://albuquerque.bizjournals.com/albuquerque/stories/2004/11/08/daily15.html?jst=b_in_hl

11-11-04 Sanyo Energy & Ecology Business

Sanyo Electric Co. announced the launch of its new Energy & Ecology Business in Europe. The company expects the European market for environmentally friendly products to grow dramatically, driven by support for "feed-in tariffs". More on these developments in the story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=2724237&ResultCategoryType=2,7&NewsPageID=3>

Sanyo:

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2Eglobal%2Dsanryo%2Ecom&template=2,2>

11-11-04 Solar Panels Required in Spain

Jose Montilla, Spain's Industry Minister, announced that from next year, anyone who intends to build a home will be obliged to include solar panels in their plans. Press at:

<http://www.timesonline.co.uk/article/0,,3-1350946,00.html>

11-11-04 Energy Challenge

For the article on "The Energy Challenge 2004 - Solar", by Murray Duffin, see:

http://www.energypulse.net/centers/article/article_display.cfm?a_id=864

11-10-04 BP Solar Profits

Per this article, BP Solar is turning profitable for the first time in its 30-year history, and plans to more than double its manufacturing capacity. BP Solar President Steve Westwell reported that there had been 2 consecutive quarters of profits saying "It's a small number in the greater scheme of BP, but if we project this level into the next year BP Solar will start to look like an attractive business." Story at:

<http://www.reuters.co.uk/newsPackageArticle.jhtml?type=reutersEdgeNews&storyID=618431&rc=rss/uk/featuresNews&ion=finance>

11-10-04 Bharat Heavy Electricals Solar Plant

Bharat Heavy Electricals Limited has commissioned a 100 kW solar PV power plant at Kalpeni Island, the 9th solar power plant commissioned by BHEL in the islands of Lakshadweep. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASPR122.htm>

Bharat Heavy Electricals: <http://66.39.99.160/bhel/index.htm>

11-10-04 Interview with Nanosys Inc. Executives

In an interview with Nanosys Inc. Chairman Lawrence Bock and CFO Peter Garcia by NanotechnologyInvestment.com on nanotechnology, Mr. Bock says, "When we grow these structures, we are integrating a lot of functional complexity into these structures as we grow them, so they're no longer materials, they now become devices. So, for example, we can engineer things like high performance transistors, LEDs, solar cells, and so forth into these nanostructures as we grow them." Which means, per this article, that within two years, a

commercial application should be available that will allow a roof to be turned into a solar panel with the application of a coated roofing material. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2714220&ResultCategoryType=2,7&NewsPageID=3>

Voice interview:

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2Einvestorideas%2Ecom%2FForums%2FMedia%2FNano%2FNanoInterview%2Emp3&template=2,2>

Nanosys: <http://www.nanosysinc.com/>

Nanotechnology Investment:

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2ENanotechnologyInvestment%2Ecom&template=2,2>

11-10-04 Solargen in Italy

Solargen has formed a partnership with Aprile Group to break into the Italian market. A pilot solar streetlight has been installed in the Sicilian town of Melilli. Said Christina Pellagrino, Solargen's international strategic manager, "The pilot scheme in Sicily has been well received and through our Italian intermediary, Aprile Group, we hope to sign up a number of local authorities for our solar powered street lights". Story through Solarbuzz at:

http://icwales.icnetwork.co.uk/0300business/0100news/tm_objectid=14854449&method=full&siteid=50082&headline=solargen-poised-to-shine-in-italy-name_page.html

Solargen: <http://www.solargen.biz/index.htm>

11-10-04 South African Universities Solar Technology

According to this article, a team at the Rand Afrikaans University has developed an industrial method of producing CIGS modules, and has a patent on the commercial manufacturing process. Story through Solarbuzz at:

http://www.sabcnews.com/sci_tech/science/0,2172,91736,00.html

11-10-04 MIT Enterprise Forum

John Rice, CEO of GE Energy, will lead a discussion on opportunities and challenges for entrepreneurs with a keynote for "Alternative Energy Sources", the MIT Enterprise Forum of Atlanta's Leading Edge Technology Series, 18 November at the Georgia Tech College of Management. Information at: <http://www.tmcnet.com/submit/2004/Nov/1092233.htm>

11-10-04 Rockford Airport Renewable Hydrogen RFQ

The Greater Rockford Airport Authority intends to select a qualified firm or team to provide planning, design/build, and ongoing operational management for the Northwest Chicagoland Airport Renewable Hydrogen Project at the Northwest Chicagoland Regional Airport in Rockford, Illinois. A Request for Qualifications has been posted. Information at:

http://biz.yahoo.com/bw/041109/95897_1.html

11-10-04 AI Gore for Sustainable Investments [Charlie Gay]

Former U.S. Vice President Al Gore announced he has launched a London-based investment company focused on companies that meet a sustainability criteria and address climate change. "Generation Investment Management" will run a growth fund to invest in environmentally responsible companies. Peter Harris, a former campaign manager for President Clinton, will run the company in the U.S. Stories at: <http://news.ft.com/cms/s/1bb77f2c-30ee-11d9-a595-00000e2511c8.html>

<http://www.planetark.com/dailynewsstory.cfm/newsid/28075/story.htm>

11-10-04 More on Colorado's Renewable Initiative [Kevin Eber]

Colorado voters approved a ballot initiative that requires the state's largest utilities to get 10% of their electricity from renewable sources by 2010. It also requires solar power to provide 4% of the renewable energy. For more on this initiative and a link to the text of the initiative, see EERE Network News at: <http://www.eere.energy.gov/news/#8267>

11-10-04 More on Iowa Thin Film Technologies Quality Award [Beverly Leis, Vikram Dalal]

Information on the Iowa Thin Film Technologies 2004 Quality Award for a flexible, thin-film PV material incorporated into tents can be found at the Army Research Office Site at:

<http://www.aro.army.mil/arowash/rt/sbir/04qa/04fabric.htm>

<http://www.aro.army.mil/arowash/rt/sbir/sbirqual.htm#2004>

11-10-04 ARISE Equity Funding

ARISE Technologies Corporation announced it has secured an initial round of over \$350,000 of funding through several transactions that will require TSX Venture Exchange approval.

Information at: <http://w5d2.ccnmatthews.com/scripts/ccn-release.pl?current/1110075n.html>

ARISE: <http://www.arisetech.com/>

11-10-04 U.S. Energy Policy

Post-election changes in Congressional make-up are reviving discussion of passing an energy bill. Coverage at MSNBC: <http://www.msnbc.msn.com/id/6435379/>

In related news...

11-10-04 Sandia-Stirling Dish Engines

Sandia National Laboratories is joining forces with Stirling Energy Systems to build and test 6 new solar dish-engine systems. Five systems will be installed at Sandia's National Solar Thermal Test Facility, joining a prototype dish-Stirling system built earlier this year. Story at:

<http://www.newswise.com/articles/view/508228/>

Sandia News Release: <http://www.sandia.gov/news-center/news-releases/2004/renew-energy-batt/Stirling.html>

Stirling Energy Systems: <http://www.stirlingenergy.com/default.asp>

11-10-04 Arizona Renewables Portfolio

Arizona Corporation Commission approved a pilot program to allow utilities to include solar heating, ventilation and air conditioning systems as qualifying technologies in the state's Environmental Portfolio Standard. Story at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story;jsessionid=aEfl3C82cyx ?id=18582>

<http://www.cc.state.az.us/utility/electric/environmental.htm>

11-10-04 Solar Sail Launch

The Cosmos 1 team announced that the first solar sail spacecraft will launch between 1 March and 7 April 2005. Cosmos 1's mission goal is to perform the first controlled solar sail flight as the spacecraft is propelled by photons from sunlight. Said Bruce Murray who co-founded The Planetary Society with Carl Sagan and Louis Friedman, "This whole venture is audacious and risky. It is a testament to the inspiring nature of space exploration and to the desire of people everywhere to be part of the adventure of great projects." Information at:

http://planetary.org/news/2004/ss_launch_set_1109.html

11-10-04 Idaho National Laboratory

DOE has selected Battelle Energy Alliance, LLC to establish the Idaho National Laboratory as the Nation's premier laboratory for nuclear energy research, development, demonstration and

education within a decade. The Idaho National Laboratory will combine the research and development components of the Idaho National Engineering and Environmental Laboratory and Argonne National Laboratory West. The laboratory will also lead the establishment of the Center for Advanced Energy Studies. DOE Press release at:

http://www.energy.gov/engine/content.do?PUBLIC_ID=16862&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

11-9-04 Outlook for Thin Films [Paula Mints]

For an interview with Dr. Subhendu Guha, President and Chief Operating Officer of United Solar Ovonic, and Dr. Harin Ullal, Senior Project Leader with NREL's National Center for Photovoltaics, on the outlook for thin films, see Solar Flare, by subscription from Strategies Unlimited. This, and other news, such as interviews with SEIA's new Executive Director Rhone Resch and company CEOs at Solar Power 2004, in the current quarterly issue. Strategies Unlimited (for subscription information): http://su.pennnet.com/solar_flare.cfm

11-9-04 Rolls of Thin-film Semi-transparent Solar Cells

XsunX, Inc. announced that their phase 2 development program is now moving to the development and testing of their process on thin-film plastics. Says Tom Djokovich, CEO, "Our goal is to deliver a process that allows for the simultaneous manufacture of multiple rolls of thin film plastics coated with our high quality semi-transparent solar cell design. This would provide manufacturers with scalable opportunities to deliver Megawatts of energy producing solar cell coated plastic films for use in the world-wide glass and building materials industry." Story at:

http://biz.yahoo.com/bw/041109/95694_1.html

XsunX: <http://www.XsunX.com/>

11-9-04 PV Activities in Japan [RTS Corporation]

Per PV Activities in Japan (subscription), Mitsubishi Heavy Industries is planning to enhance production capacity of its amorphous silicon PV modules from 10 MW/year to 23 MW/year. And, the amorphous silicon PV module production at the Isahaya Factory will be transferred to a line of microcrystalline silicon / amorphous silicon tandem modules with conversion efficiency raised to 12%. This and much more industry and government news - for example from Kyocera, Sanyo, Kaneka, JFE Steel, Tokuyama, Sharp, etc. - at PV Activities in Japan, RTS Corporation, Tokyo, +81-3-3551-6345, email: ikki@rts-pv.com.

Mitsubishi Heavy Industries: http://www.mhi.co.jp/power/e_power/index_f.htm

11-9-04 Energy Conversion Devices 1st Quarter Results

Energy Conversion Devices announced operating results for the 1st quarter ending 30

September 2004. Information at: http://biz.yahoo.com/prnews/041109/detu010_1.html

ECD Ovonic: <http://www.ovonic.com/>

11-9-04 Santana's Solar Headquarters

Carlos and Deborah Santana announced they have outfitted their Bay Area business headquarters with a 28.8 kW PV system designed and installed by Sun Light & Power. Santana:

<http://www.santana.com/>

Sun Light & Power: <http://www.sunlightandpower.com/>

11-9-04 California, Solar Electric for Homes [Kerry Mack]

Century 21-Ditton Realty and Renewable Technologies, Inc. will make SOLARSTAR(tm) (SolarStar(TM) is a trademark of Renewable Technologies, Inc.) electric energy systems available for homes to be constructed in the Meadow Springs Ranch Estates development in Coarsegold, California. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR436.htm>
Renewable Technologies, Inc.: <http://www.renewable.com/>

11-9-04 Aquentium for Disaster Relief

Aquentium, Inc. has signed an Exclusive Licensing Agreement with inventor Theodore T. Ciotti for the worldwide rights to manufacture and market a housing system of ISO shipping containers that expand and unfold with the strength, flexibility and durability of Structural Insulated Panel construction. Aquentium will manufacture, market, and sell the invention, addressing the emergency and disaster relief industry. The systems include several provisions for supplying purified drinking water and solar technology. Story at:

http://biz.yahoo.com/prnews/041109/latu098_1.html

Aquentium: <http://www.aquentium.net/>

11-9-04 Zero Energy Homes [Andy Black]

For an overview of Zero Energy Homes titled "Living Free and Easy", with links to home-builder sites and information on features, technology, and options, see the article at Wired News:

http://www.wired.com/news/technology/0,1282,65615,00.html?tw=wn_tophead_4

11-9-04 ACORE, Renewable Energy in China

The American Council On Renewable Energy completed a week of meetings with officials in Beijing to open new paths for US-China cooperation and trade in renewable energy. Story at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/market/business/viewstory?id=18525>

ACORE: <http://www.acore.org/>

11-9-04 Green Power Presentations [Blair Swezey]

Presentations from the 9th National Green Power Marketing Conference, including keynote presentations, are available at The Green Power Network website:

http://www.eere.energy.gov/greenpower/conference/gpmconf04_pres.html

11-8-04 California, El Cajon Solar

Borrego Solar completed a 32-kW solar electric system in the City of El Cajon for California Metals and Electronics Recycling Center. The system includes 153 GE and 72 RWE Schott solar modules, and SMA Sunny Boy and Xantrex inverters. Story at RenewableEnergyAccess:

http://www.renewableenergyaccess.com/rea/news/story;jsessionid=aOY3MCx_j6Tg?id=18513

Borrego Solar Systems: <http://www.borregosolar.com/>

11-8-04 Q-Cells Production

Q-Cells AG is expanding its production capacity from 170 MW to 320 MW, creating more than 100 new jobs. The new facility is planned for operation by the 2nd quarter of 2005. Q-Cells already announced its new 8-inch multi-crystalline silicon solar cell will be launched in the first quarter of 2005. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUMA54.htm>

Q-Cells: http://www.qcells.com/1_eng.php

11-8-04 Solar Group Earnings

ATS Automation Tooling Systems Inc. reported that earnings are up, driven by stronger performances from the Company's Automation Systems and Solar businesses. Said ATS President and Chief Executive Officer Klaus Woerner, "Demand for solar modules is extremely strong and with the summer period behind it, we expect Photowatt to take full advantage of market potential through the second half of this year. Our Spherical Solar Power initiative is also progressing and demand for SSP products is building." More at Solarbuzz:

<http://www.solarbuzz.com/news/NewsNACO256.htm>

ATS: <http://www.atsautomation.com/profile/news/pr2004.asp>

11-8-04 Solar-Fabrik Sales and Profits

Solar-Fabrik AG reported sales for the first 9 months of 2004 up 95% compared to the same period last year. The company is also expanding production capacity, with new production lines that will almost double capacity to be installed in the first quarter of 2005. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsEUACO148.htm>

Solar-Fabrik: <http://www.solar-fabrik.de/eng/1.htm>

11-8-04 Germany, PV Plant

A 1-MW green field solar electricity plant was officially opened at Bittenwiesen in Bavaria. Phonix SonnenStrom AG built the solar farm, which uses 10,050 MA 100 modules from Mitsubishi Heavy Industries. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsEUPR186.htm>

Phonix SonnenStrom: <http://www.sonnenstromag.de/>

11-8-04 Konarka Innovation

Konarka Technologies, Inc., announced that InnovationWORLD named the Company to the InnovationWORLD21 (IW21). IW21 recognizes 21 companies poised for growth in the 21st century by promising products with solid financial and operational qualities. Story at:

http://biz.yahoo.com/bw/041108/85576_1.html

Konarka: <http://www.konarka.com/>

11-8-04 Solar Power Stations in South Korea

Representatives from Sun Power and Geothermal Energy Co. and Sharp Electronics Corp. were in South Korea to plan final details of a 15-MW solar power station to be completed in October 2006. According to the article, a total of 12 companies are seeking to establish solar power stations in the province to produce a combined 37 MW of solar energy. Story through Solarbuzz at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=59850001&ID=cnniw&scategory=Energy%3AAlternative Sun Power & Geothermal Energy: <http://sunpowergeo.com/>

11-8-04 DayStar Presentation

DayStar Technologies, Inc. announced it is scheduled to present at the upcoming New York Society of Security Analysts' 2004 "Investing in the Alternative Energy Industry" Conference.

Information at: http://biz.yahoo.com/prnews/041108/sfm036_1.html

NYSSA: <http://www.nyssa.org/>

DayStar Technologies: <http://www.daystartech.com/>

11-8-04 Alternative Energy in Malta

Malta Resources Authority CEO Antoine Riolo was interviewed regarding possible alternative sources of energy for Malta, and mentioned biomass, wind, and solar energy. Per the article, Energy Conversion Devices said they were interested in a joint venture with Maltese entrepreneurs. Story through Solarbuzz at:

<http://www.independent.com.mt/daily/newsview.asp?id=28567>

11-8-04 Pennsylvania Clean Energy

Environmental Protection Secretary Kathleen A. McGinty awarded 34 grants totaling \$5 million for the second round of the annual Pennsylvania Energy Harvest initiative. The grants leverage more than \$13 million to promote advanced energy technologies generating jobs, improve air quality, preserve land, protect watersheds, and enhance energy security. Stories at Solarbuzz:

<http://www.solarbuzz.com/news/NewsNAGO211.htm> and RenewableEnergyAccess:

http://www.renewableenergyaccess.com/rea/news/story;jsessionid=aOY3MCx_j6Tg?id=18510

State of Pennsylvania: <http://www.dep.state.pa.us/dep/deputate/pollprev/ehg/default.htm>
Related story: http://biz.yahoo.com/prnews/041108/phm038_1.html

11-5-04 Where Solar Energy Stands

For an article on "Where Solar Energy Stands After the Election" by Jesse Broehl, see RenewableEnergyAccess at:
<http://www.renewableenergyaccess.com/rea/news/story;jsessionid=ar5fhWi3tEz-?id=18198>

11-5-04 Interstate Renewable Energy Council News [Jane Pulaski]

For news on schools going solar, Million Solar Roofs, State incentives, interconnection, certification, partnerships, and other topics, see the IREC website and newsletter. For example, see the references to the Building America new Zero Energy Building fact sheets at:
http://www.millionsolarroofs.org/articles/static/1/1099417578_1023713684.html
IREC News: <http://www.irecusa.org/commout/enewsletter.html>

11-5-04 Energy Outfitters RE Dealer / Installer Tech Expo

The Energy Outfitters RE Dealer / Installer Expo will be held 9-12 December 2004 in Las Vegas, Nevada. For information and registration see:
<http://www.renewableenergyaccess.com/rea/events/view?id=17718>
<http://www.re-access.com/partner/energyoutfitters/vegas2004.html>

11-5-04 California, PV Carport

GenSelf Corporation completed the installation of a 113-kW Solar Carport at the Edwards Mansion Banquet facility in Redlands. The grid-tied system is expected to produce about 80% of the electricity needed to power the property. It includes 612 Sharp 185-watt modules and 3 Xantrex inverters. SunWize Technologies was also part of the team. Story and photo at:
Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR435.htm>
GenSelf: <http://www.genself.com/>
SunWize: <http://www.sunwize.com/>
California Self Generation Incentive Program:
<http://www.ora.ca.gov/distgen/selfgen/sgips/index.htm>

11-5-04 Sustainable Energy Technologies Financing

Sustainable Energy Technologies announced it will issue up to 150 units of Solar Markets Limited Partnership for gross proceeds of up to \$1.5 million. The net proceeds of the issue will be used to commence commercial production of its SUNERGY 5 inverter for the North American solar power market and to develop new products based on the SUNERGY platform. Story at: <http://w5d2.ccnmatthews.com/scripts/ccn-release.pl?current/1105028n.html>
Sustainable Energy Technologies: <http://www.sustainableenergy.com/SET-home/index.html>

11-4-04 Sharp and Hi-Tec Spray

Hi-Tec Spray Ltd has been selected by Sharp Manufacturing Company of the UK to design and construct a mobile unit that de-gasses and dispenses a silicone compound to seal soldered connections inside modules. Press at: http://www.engineering-uk.co.uk/eng_news.taf?function=detail&record=214197&UserReference=B6EF2E37793C3FA7C534C4C5&start=1
Hi-Tec: <http://www.hitecspray.co.uk/>
Sharp: <http://sharp-world.com/solar/index.html>

11-4-04 Renewable Energy in New York (NYIRN Newsletter)

NYIRN (New York Industrial Retention Network) has teamed with Homeland Energy on a project called RenewableNY, which seeks to bring clean and renewable energy technologies to

NYC manufacturers.

NYIRN: http://www.nyirn.com/NYIRN_Jobs.html

Homeland Energy: <http://www.homeland-energy.com/>

Contact: Dana Ruppert at NYIRN at 212-404-6990 ex 15 or druppert@nyirn.org

11-4-04 More on Department of Interior Renewables

For coverage of the U.S. Department of the Interior's renewables efforts, see the article at RenewableEnergyAccess: <http://www.renewableenergyaccess.com/rea/news/story?id=17839>

11-4-04 More on Colorado Renewables Initiative

For post-election-day coverage and perspectives on the Colorado renewables initiative - which includes provisions for solar - and passed Tuesday, see articles at:

<http://www.commondreams.org/news2004/1103-03.htm>

<http://www.seia.org/>

<http://www.marketwatch.com/news/yhoo/story.asp?source=blq/yhoo&siteid=yhoo&dist=yhoo&guid=%7BB50721C7%2D01BA%2D4F39%2DA987%2DE403825E165E%7D>

http://www.rockymountainnews.com/drmn/business/article/0,1299,DRMN_4_3303530,00.html

<http://www.energyvortex.com/pages/headlinedetails.cfm?id=1469>

In related news...

11-4-04 DOE Support of CSP

The U.S. Department of Energy will support efforts to install a total of 1,000 MW of concentrating solar power (CSP) systems over the next several years. Through a 5-year cooperative, cost-shared agreement first proposed by the Western Governors' Association, DOE's Office of Energy Efficiency & Renewable Energy will provide \$90,000 for the 1st year along with expertise on CSP systems for the 5-year span. The total estimated cost of the 5-year project is \$1,860,000, including DOE's contribution. WGA and the involved Western states will provide a cost share of \$61,690 in the first year, with more anticipated in years 2-5. Press at:

http://www.energy.gov/engine/content.do?PUBLIC_ID=16846&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

RenewableEnergyAccess: <http://www.renewableenergyaccess.com/rea/news/story?id=17840>

Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO210.htm>

WGA: <http://www.westgov.org/>

11-4-04 U.S. FY 2005 Energy Appropriations

Congress is expected to address the FY 2005 appropriations bills when it returns 16 November, but energy and water may not be included since no agreements have been reached. Two possible outcomes are consideration and resolution by the new Congress in January, or an extended continuing resolution.

11-3-04 US PV Roadmap

For a copy of the US PV Roadmap, "Our Solar Power Future", see the SEIA website:

<http://www.seia.org/>

[Also note SEIA's new address and phone, given below and on the Website]

11-3-04 Solar Power Generators in Demand

For the article on "Here comes the sun: Makers ratchet up production to satisfy growing global appetite", see: <http://www.asahi.com/english/business/TKY200411030112.html>

11-3-04 Evergreen Solar 3rd Quarter Results

Evergreen Solar, Inc. announced financial results for the 3rd quarter ending 30 September 2004. Said Richard Feldt, President and Chief Executive Officer, "Financially, we posted record product revenues and achieved a dramatic improvement in product gross margin. Operationally, we further reduced our variable manufacturing costs as we accelerated the transition at our Marlboro facility to the latest generation of our STRING RIBBON(tm) (String Ribbon(TM) is a trademark of Evergreen Solar, Inc.) technology - our Gemini II platform." More at:

http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=ESLR&script=410&layout=-6&item_id=639617

11-3-04 Renewables in Colorado

According to 9News, with 90% of precincts reporting, 52% backed an amendment requiring Colorado's largest utilities to get 10% of their electricity from renewable energy sources by 2015. http://9news.com/acm_news.aspx?OSGNAME=KUSA&IKOBJECTID=fe602754-0abe-421a-003e-4ad35a2dfd59&TEMPLATEID=0c76dce6-ac1f-02d8-0047-c589c01ca7bf

See the coverage at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/real/news/story?id=17736>

11-3-04 PV in Africa

"Although there have been some successes in a variety of countries, a massive roll-out of PV systems into rural areas of Africa has not yet happened," notes "Solar Photovoltaics in Africa: Experience with Financing & Delivery Models" by UNDP and the Global Environmental Facility. Story and link to report at ReFocus:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=71111697&accnum=1&topics=

11-3-04 Renewables in Oklahoma

Public Service Co. of Oklahoma announced a plan to buy up to 250 MW of green-power electricity beginning as soon as late 2005. The state's second-largest electric utility issued a Request for Proposals, asking renewable energy developers to bid on electric generation. Story at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=59588476&ID=cnniw&scategory=Energy%3AAlternative&

11-3-04 World Renewables

Global production of non-hydro renewables will treble by 2030, but will supply only 6% of the world's electricity according to the latest World Energy Outlook from the International Energy Agency. This, and more renewables news at ReFocus:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=73507327&accnum=1&topics=
IEA News & Events: http://www.iea.org/Textbase/press/pressdetail.asp?PRESS_REL_ID=137

11-3-04 ECD Feature

A feature on ECD's alternative energy business can be found at:

<http://www.detnews.com/2004/autosinsider/0411/03/b01-323780.htm>

In related news....

11-3-04 Solar Thermal Markets in Europe

The market for solar thermal in Europe grew by 22% last year. Story, and link to report, at ReFocus:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=91239565&accnum=1&topics=

11-3-04 New Address and Phone for SEIA [Colin Murchie]

The contact information for the Solar Energy Industries Association is:
Solar Energy Industries Association
805 15th Street NW, Suite 510
Washington, DC 20005
(202) 682 - 0556 (p) / (202) 682 - 0559 (f)

11-2-04 Solar Cell Tests at APS

Arizona Public Service is testing concentrating triple junction solar cells at its Solar Technology and Research Center in Tempe. For more information, see the story at:
<http://www.eastvalleytribune.com/index.php?sty=30814>

11-2-04 AEP Request for Proposals

American Electric Power issued a Request for Proposals for renewable energy to help fulfill energy-supply requirements for its retail customers in Arkansas, Louisiana, Oklahoma, and Texas. The proposals, for up to 250 MW of renewable energy generation within the Southwest Power Pool, are due 1 December. Information at:

http://biz.yahoo.com/prnews/041101/clm111_1.html

AEP RFP: <http://www.aep.com/about/doingbusinesswithaep/windPower/default.htm>

11-2-04 "NowHouse"

The "NowHouse" ribbon cutting ceremony was 29 October, and the house will be open to the public through 20 December in San Francisco, California. Billed as modern, affordable, green and digitally integrated, the NowHouse showcases a new type of design and building system by Clever Homes. Among the technologies incorporated in the NowHouse are PV roofing and solar water heaters. Website: <http://www.nowhouse.org/>, and additional coverage on various aspects at: <http://www.buildingonline.com/news/viewnews.pl?id=3557&subcategory=83>

http://biz.yahoo.com/bw/041024/245016_1.html

<http://www.sfgate.com/cgi-bin/article.cgi?file=/gate/archive/2004/10/29/carolloyd.DTL>

<http://www.cleverhomes.net/>

<http://www.pathnet.org/sp.asp?id=13296>

http://www.ehomeupgrade.com/entry/246/nowhouse_on_display

11-2-04 Connecticut Clean Energy Fund Forum

Project 100 is a new CCEF initiative supporting legislation promoting development and funding of clean energy resources in Connecticut. A Project 100 forum on 16 November offers an opportunity for interested parties to comment on a draft Request for Proposal, to be released prior to the forum. Information at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/events/view?id=17675>

Connecticut Clean Energy Fund: <http://www.ctcleanenergy.com/>

11-2-04 Megawatt PV Plants in Germany

An overview of megawatt-class solar power plants going on-line in recent months in Germany can be found at: http://www.german-renewable-energy.com/www/main.php?tplid=6&aktuell_id=51

11-1-04 SunPower Workshop, San Jose, California

SunPower Corp. will host a free public workshop on solar electricity for commercial and residential sites on 6 November, with speakers from Horizon Energy Systems, REgrid Power, and SunPower. Information at: http://biz.yahoo.com/bw/041029/295499_1.html

SunPower: <http://www.sunpowercorp.com/html/>

11-1-04 Irrigation District PV System RFP, Placerville, California

El Dorado Irrigation District has issued a notice to engineering firms for Requests for Proposals for design and build services for a PV system. The RFP is to design and build an approximately 900 kW system at the Wastewater Treatment Plant. Information at Solarbuzz:

<http://www.solarbuzz.com/news/NewsNAPR433.htm>

El Dorado Irrigation District: <http://www.eid.org/>

11-1-04 NABCEP Results

The North American Board of Certified Energy Practitioners announced the overall results of its 2004 Solar PV Installer Certification exam, as well as information about upcoming exams.

Information at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/market/business/viewstory;jsessionid=a-0BuiozPclf?id=17627>

NABCEP: <http://www.nabcep.org/>

11-1-04 Solar Cars

A 3-month exhibition of solar-powered cars opened at the National Taiwan Science Education Center in Taipei. Information at:

<http://www.etaiwannews.com/Taiwan/2004/10/31/1099193000.htm>

11-1-04 Carmanah Order

Carmanah Technologies received an order for 150 i-SHELTER(tm) (I-SHELTER(TM) is a trademark of Carmanah Technologies, Inc.) solar-powered LED shelter lights to be installed in a North American city. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR434.htm>

Carmanah TransitLights: <http://www.transitlights.com/>

11-1-04 Solon AG Shares

Shares in Solon AG will trade on the Frankfurt and Berlin Bremen stock exchanges from 10 November 2004. Information at Solarbuzz:

<http://www.solarbuzz.com/news/NewsEUACO147.htm>

Solon: <http://www.solonag.de/>

11-1-04 Canadian Renewable Energy Potential

Renewable energy initiatives can add over \$9 billion and create 25,000 new jobs by 2010 to the Canadian Province of Ontario according to a report from the David Suzuki Foundation. This,

and more renewables news, at Clean Edge: <http://www.cleandedge.com/news-listing.php>

David Suzuki Foundation: <http://www.davidsuzuki.org/>

11-1-04 Clean-tech Investments

A new report suggests that investors in privately held clean-technology companies can achieve liquidity, and documents instances in which shareholders were able to exit investments with venture-grade returns. This story, and more renewables news, at Clean Edge:

<http://www.cleandedge.com/news-listing.php>

11-1-04 Renewable Energy Stocks

For features on renewable energy stocks, including PV, see the website at:

<http://www.renewableenergystocks.com/Companies/RenewableEnergy/ECONRenewableEnergy.asp>

OCTOBER

10-29-04 Worldwide PV

World production of solar cells grew 32% to 742 MW in 2003, growing by 27% annually over the past 5 years. For more on the world markets, see the Earth Policy Institute analysis at RenewableEnergyAccess at: <http://www.renewableenergyaccess.com/rea/news/story?id=17579>
Earth Policy Institute: <http://www.earth-policy.org/>

10-29-04 ACORE Policy Forum

The American Council on Renewable Energy, with the Environmental and Energy Studies Institute and the Renewable Energy and Energy Efficiency Caucuses of Congress announced the events and speakers for the national conference 6-7 December 2004 in Washington, D.C. titled "Phase II" of renewable energy in America. For more information see: <http://www.commondreams.org/news2004/1028-22.htm>
ACORE: <http://www.acore.org/>

10-29-04 Carmanah Alliance

Carmanah Technologies Corporation announced a marketing alliance with Landscape Forms under which Carmanah will provide the technology to integrate solar-powered, light-emitting diode lighting to the design of selected Landscape Forms' products. Story at RenewableEnergyAccess: <http://www.renewableenergyaccess.com/rea/market/business/viewstory?id=17475>
Carmanah: <http://www.carmanah.com/>
TransitLights: <http://www.transitlights.com/>

10-29-04 Distributed Generation for National Security

According to ABI Research, distributed generation offers the potential to relieve some of the energy vulnerabilities North America and Europe face. Since DG can use a variety of energy sources, it can also be seen as reducing our dependence on imported oil from volatile regions. And, these sources - including solar, wind and others - are also part of DG's longer-term rationale: it helps incorporate renewable and alternative energy sources into the mainstream economy. Press at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=2614097&ResultCategoryType=2,7&NewsPageID=3>

ABI Research:

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2Eabiresearch%2Ecom&template=2,2>

10-29-04 Solicitation for Mobile Alternating Current Power System

A presolicitation notice for a mobile power source can be found at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=2615009&ResultCategoryType=2,7&NewsPageID=3>

The objectives of the demonstration are to understand and demonstrate renewables in remote Army applications and reduce logistical requirements for fossil fuel and maintenance of generators.

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2Eeps%2Egov%2Fspg%2FDOI%2FMMS%2FGovWorks%2F40727%2Flisting%2Ehtml&template=2,2>

10-29-04 National Geographic on Alternative Energy

For coverage of "The Future of Alternative Energy", see National Geographic at:

http://news.nationalgeographic.com/news/2004/10/1028_041028_alternative_energy.html#main

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10-29-04 IEA Open Energy Technology Bulletin and World Energy Report [Christy Herig]

For information about the just released IEA World Energy Outlook 2004, see the Bulletin website at: <http://spider.iea.org/impagr/cip/index.htm>

IEA PV Power Systems Programme: <http://www.oja-services.nl/iea-pvps/pvpower/index.htm>

10-29-04 Canadian Renewables Facility

The University of Ontario Institute of Technology will construct a Cdn\$25 million engineering building that includes an "emerging energy systems lab" to examine solar, wind, hydrogen, and fuel-cell technology. This, and other renewables news at ReFocus:

http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=2172488&accnum=1&topics=

10-28-04 Salt River Project Solar Program

The Salt River Project has launched the SRP SolarWise Energy program, which will partly reimburse residential and small business customers who purchase and install PV systems that interconnect with SRP's system. SRP is committing \$1 million a year to the new program. Story at: http://phoenix.bizjournals.com/phoenix/stories/2004/10/25/daily36.html?jst=b_in_hi

SRP: <http://www.srpnet.com/>

10-28-04 EU Vision for PV Technology [Christy Herig]

A preliminary report by the Photovoltaic Technology Research Advisory Council (PV-TRAC), "A Vision for Photovoltaic Technology for 2030 and Beyond", presented in Brussels 28 September, can be found at: http://europa.eu.int/comm/research/energy/photovoltaics/introduction_en.html

10-28-04 More on Solar for Manchester, UK CIS Tower

More on the Co-operative Insurance Society's solar installation on their CIS Tower in Manchester can be found at the solarcentury site at:

<http://www.solarcentury.co.uk/news/newsitem.jsp?newsid=400>. Solarcentury provided the solar design for the project, and will be responsible for supplying the solar technology and advising the project team. At 391 kilowatts of installed power covering 3,200 square meters and generating 180,000 units of electricity per year (correction from yesterday), this will be solarcentury's largest installation to date.

10-28-04 More on Nevada Power PV

Two PV projects, and renewable energy credits from geothermal projects, will help the company meet renewable portfolio standards. The Springs Preserve, a reservoir and educational area operated by the Las Vegas Valley Water District will be the first of 4 reservoirs to start using electricity from a distributed 3.1 MW PV project. Rated at 1 MW, the array at the Springs will have 2,712 Sharp panels. PowerLight is the project developer. Story at

RenewableEnergyAccess: <http://www.renewableenergyaccess.com/rea/news/story?id=17444>

10-28-04 Green Power Network Proposal Notices

Two new requests for proposals appeared on the Green Power Network alerts: Roseville Electric RFP for Renewable Energy Supplies and Marketing Support for a Green Energy Program, and NYSERDA's Renewable Energy Technology Manufacturing Incentive Program Opportunity Notice. See: <http://www.eere.energy.gov/greenpower/financial/>

10-28-04 Renewable Energy on Colorado Ballot

Utilities, renewable energy proponents, and Colorado residents will be closely following a Colorado ballot initiative that would require utilities to boost the amount of electricity they produce from renewable energy sources over the next 10 years. Much has been in the news about Amendment 37, including the story at (may have to cut/paste link):

<http://cbs.marketwatch.com/news/story.asp?guid={C3D9C7B7-6E0B-41EF-9BE7-A4F26F16826F}&siteid=mktw&dist=nbk>

10-28-04 California Green Power Workshops [Guy Nelson]

Two Public Utility Green Power Workshops in Roseville, California, 30 November and Riverside, California, 2 December are open for registration. The target audiences are municipal utilities and their stakeholders who are interested in developing and implementing green power programs. For information see: <http://www.repartners.org/>

10-28-04 Distributed Energy Resources Guidebook

Research and Markets has published the latest "Guidebook of Funds and Incentives for Distributed Energy Resources". For information, see: <http://www.researchandmarkets.com/reports/c8184/>

10-28-04 Research Report on Energy Venture Capital

Research Reports International is offering the 4th Edition of the 190-page Venture Capital in the Energy Industry report. In 2003, \$18 billion of venture capital was invested in the U.S., a huge decrease from the record \$106 billion invested in 2000. U.S. venture capital in energy-related businesses in 2003 was \$428 million, down from \$1.2 billion in 2000. Investment in renewables increased from 8.3% in 2000 to 31% of energy investments. Research Reports International: http://www.researchreportsintl.com/products/product.cfm?report_ID=64

10-27-04 Elkem's 23% of Renewable Energy Corporation [Henrik Lund]

Elkem is acquiring 23% of Renewable Energy Corporation, a transaction valued at approximately NOK 450 million. REC, parent company of ScanWafer and others, has production sites in Norway, Sweden, and the U.S., and installation business in South Africa. Core activities are the production of solar grade silicon and silicon wafers. Elkem is the world's largest producer of metallurgical silicon. Said REC President and CEO Alf Bjorseth, "We see the purchase by Elkem as a great vote of confidence, and we are pleased with getting the group on board as one of our larger owners. The deal is an important milestone in our continuous effort to develop the company. REC will, as a result of this transaction, further develop our strong position in the international market for silicon based solar energy - a market that is becoming more and more attractive in regards to profitability and growth." [Press release, Henrik Lund]

Elkem: <http://www.elkem.com/>

ScanWafer: <http://www.scanwafer.com/index.php/4740>

REC: <http://www.rec-pv.com/text/view/3524.html>

<http://www.rec-pv.com/newsgroup/view/3545.html>

10-27-04 More on Sharp's Demonstration on Baseball Stadium

Additional coverage of the teaming of Sharp Solar and the San Francisco Giants to have a major solar-electric demonstration project on the stadium can be found at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story;jsessionid=aSpj2Rg3RQwh?id=17358>

10-27-04 California, Oroville Solar Electric System

Butte County is holding a ceremony today to dedicate its new solar electric facility that will power the Butte County Administration and Jail Facilities. The system was designed by Sun Power & Geothermal Energy and uses Sharp 185-Watt PV modules and Xantrex inverters. Energy output is monitored in real time by Sun Power's SUNSPOT(tm) (SunSpot(TM) is a trademark of Sun Power & Geothermal Energy) monitoring system. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR431.htm>

Sun Power & Geothermal: <http://www.sunpowergeo.com/>

10-27-04 Nuon Solar Energy Systems to South Africa

Dutch energy company Nuon signed an agreement with the South African government for the installation of 8,000 solar energy systems in the South African province of KwaZulu Natal over the next 2 years. The systems will be installed by NuRa, a joint venture of Nuon and local energy company RAPS. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsAFPR22.htm>
Nuon: http://www.nuon.nl/nl/fs_main.html?L1=overenergie&L2=reclame

10-27-04 DayStar Technologies Presentation

DayStar Technologies, Inc. is scheduled to present at the 27th Annual Westergaard SmallCap Conference hosted by Paulson Investment Company, Inc. Press at:

http://biz.yahoo.com/prnews/041027/sfw022_1.html

Paulson Investment Co: <http://www.paulsoninvestment.com/conferences.htm>

DayStar: <http://www.daystartech.com/>

10-27-04 World Resources Institute Report

Nine northeast-based U.S. corporations teamed up with WRI in 2003 to form the Climate Northeast Initiative, focusing on climate change management strategies for energy use, emissions tracking, and innovations such as green power purchasing. WRI has released the findings, featuring case studies from each of the companies in a report titled "A Climate of Innovation: Northeast Business Action to Reduce Greenhouse Gases". Story at:

http://biz.yahoo.com/bw/041026/265898_1.html

WRI: <http://www.wri.org/>

10-27-04 Solar Power Generator in the UK

According to this article, the CIS Tower in Manchester will be covered with 180,000 solar panels next month. Said Mike O'Brien, government energy minister, "This solar installation on Manchester's tallest building will demonstrate in the most visible way just how important renewable energy is becoming in our every day lives. It is proof of its growing appeal throughout the country. The growth and development of the solar power industry will help take us a step closer to achieving our renewable energy target of 10 per cent of electricity by 2010, and to tackling the threat posed by climate change". Story at:

http://www.manchestersonline.co.uk/news/s/134/134942_solar_power_for_new_blue_cis_tower.html

In related news...

10-27-04 More on Hydrogen Awards

The U.S. DOE awarded the University of Colorado at Boulder \$1.2 million over 4 years for a proposal to produce hydrogen fuel by using concentrated sunlight to split water. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=2612583&ResultCategoryType=2,7&NewsPageID=3>

10-26-04 Uni-Solar New Module

United Solar Ovonic, UNI-SOLAR has launched a new 62-Watt solar module to complement a previously launched 124-Watt module in the ECO-SERIES line. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPT94.htm>

Uni-Solar: <http://www.uni-solar.com/>

10-26-04 Solar in California Schools

Thirty schools throughout California will get financial incentives to install PV under the Energy Commission's Solar School Program. The schools will share \$4.5 million in incentives. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO208.htm>

10-26-04 Alternet into Solar Energy

Alternet Systems, Inc. announced it has entered into an agreement with Solflex Energy Development Corp. to acquire 25% equity interest in Solflex. Solflex has developed a method of manufacturing PV panels using screen printing onto a flexible acetate substrate. Story at: http://biz.yahoo.com/bw/041025/256071_1.html
Solflex: <http://www.solflex.net/>

10-26-04 Cerro Coso Solar

For coverage of the recent dedication of the 1-MW PV array by WorldWater at Cerro Coso Community College, see the article at RenewableEnergyAccess: http://www.renewableenergyaccess.com/rea/news/story;jsessionid=amgBggx3oJ_4?id=17325

10-26-04 Renewable Energy Credits

Sierra Pacific Resources announced that its 2 electric utilities recently contracted with 3 renewable energy producers to purchase Renewable Energy Credits for electricity generated by solar and geothermal resources. Nevada Power is acquiring credits from PowerLight for PV generation in a project undertaken with the Las Vegas Valley Water District. Nevada Power is also purchasing credits from Your Vitamins Inc. Story at: http://biz.yahoo.com/prnews/041025/lam178_1.html

10-26-04 Renewables Savings in States

States committed to developing more renewable energy have found it costs less than expected and typically saves money, per the article at: <http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=2600721&ResultCategoryType=2,7&NewsPageID=3>

10-26-04 Energy Secretary's Gold Award

Secretary of Energy Spencer Abraham presented the Secretary's Gold Award to 8 current and former directors of Department of Energy national laboratories. The award is the Energy Department's highest honorary award and includes a plaque with citation, a medallion, and a rosette. Press at: http://www.energy.gov/engine/content.do?PUBLIC_ID=16800&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

10-25-04 California, Solar for Builder

Trimco Finish in Orange County has a new 178-kW PV system designed and installed by Solar Electrical Systems. For story and photos, see Solarbuzz at: <http://www.solarbuzz.com/news/NewsNAPR430.htm>
Solar Electrical Systems: <http://www.solarelectricalsystems.com/>

10-25-04 Spain, 15-MW Solar Program

The Cabildo of Tenerife, administrative authority of the Spanish island of Tenerife, and ITER have created a program for developing a grid-connected solar electric facility based on 150 fields of 100 kW each. Ownership of all but the first 100-kW field will go to private investors. ITER will be responsible for the building, maintenance, and management of the whole facility. Each field will comprise 576 monocrystalline silicon modules. Story at Solarbuzz: <http://www.solarbuzz.com/news/NewsEUPR185.htm>

10-25-04 Viohalco Solar Panel Production

Viohalco will open a company for production of PV modules, called Energy Solution, in Bulgaria. The first modules will be exported to the European Union. Story through Solarbuzz: at: http://www.hoovers.com/free/news/detail.xhtml?ArticleID=NR20041021670.4_a5ae00044c3463d5

10-25-04 Kyocera Econowave PV System

Kyocera Corporation is introducing a new solar electric generation system called Econowave, available in the Japanese market in November. The 10-kW, 30-kW, and 50-kW units all include a solar array together with frame, cable extensions, power conditioner, measuring device, and output display. Story at Solarbuzz: <http://www.solarbuzz.com/news/NewsASPT29.htm>
Kyocera: <http://www.kyocera.co.jp/>
<http://www.kyocerasolar.com/news/>

10-25-04 Conergy Board

Conergy AG has appointed Dr. Ing. Edmund Stassen as a new member of the board of managing directors. More on Stassen and the Board at Solarbuzz: <http://www.solarbuzz.com/news/NewsEUOCO146.htm>
Conergy: <http://www.conergy.de/>

10-25-04 MVSystems Research and Awards (Arun Madan)

MVSystems was awarded a multi-year, multi-million dollar contract as part of the U.S. DOE Hydrogen Fuel Initiative involving photo-electrochemical cells to produce hydrogen using solar energy. Partners include University of Hawaii, Intematix Corp., Southwest Research Institute, Duquesne University, and NREL. Information at: <http://www.eere.energy.gov/hydrogenandfuelcells/>. Also, MVSystems has been conducting R&D on solar cells for NREL and XsunX, [http://biz.yahoo.com/bw/041018/185337_1.html and <http://www.xsunx.com/>], and has been awarded a phased contract by NREL to build a multi-chamber cluster tool for thin-film silicon materials and solar cell development. MVSystems recently shipped a cluster tool system to Simon Fraser University, Vancouver, Canada. [Information from Arun Madan, MVS].
MVSystems: <http://www.mvsystems.info/>

10-25-04 Thailand, Solar on Provincial Halls

Provincial halls nationwide will be fitted with solar panels, said Interior Minister Bhokin Bhalakula. The solar project is a pilot for and expanded solar program. Story at: <http://etna.mcot.net/query.php?nid=32143>

10-25-04 U.S. Energy Tax Provisions

President Bush signed the Corporate Tax Bill last Friday, which includes a number of energy tax provisions.

10-22-04 U.S. Department of Interior Solar Initiative

As reported by Platts Inside EnergyExtra (subscription) and Solarbuzz, the Interior Department announced a policy initiative it hopes will spur the development of solar energy on federal lands it manages in the West. The announcement is posted at: <http://www.doi.gov/news/041021a>
Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO206.htm>
Platts Inside Energy (for subscription): <http://www.platts.com>

10-22-04 GE Energy's Solar Technology & Services

According to this article, GE's roof-integrated modules and customer service are crucial to forging ties with top builders. "GE's roof integrated tile systems blend seamlessly with the roofline, providing a unique combination of functionality, attractiveness, and increased property value to homeowners." Ladera Ranch in Orange County, California consists of 6 villages including the 1,260-home Terramor Village; and more than 75% of the homes sites for solar at Terramor will feature GE solar equipment. Other customers include Centex Homes, Clarum Homes, K. Hovnanian, Morrison Homes, Pardee Homes, Premier Homes, Pulte Homes, Richmond American Homes, Shea Homes, Standard Pacific Homes, and Warmington Homes California. More details at: http://biz.yahoo.com/bw/041021/215996_1.html
GE: <http://www.gepower.com/home/index.htm>

10-22-04 Scientific-Technical Reference System on Renewable Energy and Efficient Use of Electricity [Arnulf Jager-Waldau]

The European Commission, Joint Research Centre, Renewable Energies Unit has published the 2004 Status Report of the Scientific-Technical Reference System on Renewable Energy and Efficient Use of Electricity. The report addresses the 3 major drivers determining today's socio-economic framework for the impressive renewables' industrial and market development; successful application of the feed-in tariffs; liberalization of the electricity market; and the medium-term need for massive re-powering of a large part of Europe's generation capacity. EC-JRC: <http://ies.jrc.cec.eu.int/Units/re/>

10-22-04 WorldWater Appointment

WorldWater & Power announced the appointment of Douglas L. Washington to the position of Vice President of Marketing and International Operations. Information at (may have to cut/past link): <http://cbs.marketwatch.com/tools/quotes/newsarticle.asp?guid={48418DE9-DF27-4635-889A-732B2A2C4B18}&siteid=mktw&dist=nbk&symb=>
WorldWater: <http://www.worldwater.com/>

10-22-04 Renewable Energy Congress 2005 [P. Jayakumar]

The International Congress on Renewable Energy, ICORE 2005, the Annual Convention of the Solar Energy Society of India (SESI) will take place 20-22 January 2005 at Pune, India and will focus on the "Potential of RE technologies and their Application for Enhancing Energy Security and Sustainable Development."
Conference Website: <http://www.icore2005.com/objectives.htm>

10-22-04 Mars Rover Solar-power Output

Opportunity has recently shown an unexplained increase in its solar cell power output, said NASA. Opportunity's 1.3 meters of solar cells provided about 900 watt-hours per day when the mission began, and dropped to 500-600 by June as dust accumulated on the panels and winter advanced. The power increased to more than 700 watt hours per day began over a month ago, even before the Martian Midwinter. There's speculation that gusts of wind may have swept away some of the accumulated dust, or that frost on the panels caused the dust to clump up exposing more of the solar panel surface. Story at:
<http://www.newscientist.com/news/news.jsp?id=ns99996566>

10-21-04 Sharp and the San Francisco Giants

Sharp Electronics Corporation and the San Francisco Giants Baseball Club have established a strategic sponsorship alliance to promote solar energy. The multi-year agreement begins with the 2005 Major League Baseball season. Story at Solarbuzz:
<http://www.solarbuzz.com/News/NewsNACO248.htm>
RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/market/business/viewstory;jsessionid=a0Wm7vjGd3L5?id=17205> Sharp: <http://solar.sharpusa.com/solar/home/0,2462,,00.html>

10-21-04 WorldWater Project Dedication

WorldWater & Power Corporation shared in the dedication of a 1-MW PV system at Cerro Coso Community College in Ridgecrest, California. Contra Costa Electric served as the project's prime contractor, and Sharp Electronics manufactured the solar panels supplied by WorldWater. Story at: http://biz.yahoo.com/bw/041020/205865_1.html
WorldWater: <http://www.worldwater.com>

10-21-04 Evergreen Solar Shelf Registration

Evergreen Solar, Inc. announced the filing of a registration statement with the U.S. Securities and Exchange Commission. After the registration statement is declared effective by the SEC, the company will be able to offer and sell up to an aggregate of \$75 million of its common stock, preferred stock, depositary shares, warrants, and debt securities in one or more public offerings. Press at: http://biz.yahoo.com/prnews/041021/neth018_1.html
Evergreen Solar: <http://www.evergreensolar.com/>

10-21-04 Inverter Launches at Solar Power 2004

For an overview of inverter announcements at Solar Power 2004, see the article at RenewableEnergyAccess: <http://www.renewableenergyaccess.com/rea/news/story;jsessionid=a0Wm7vjGd3L5?id=17242>

10-21-04 Additional Coverage of Solar Power 2004

Additional coverage of presentations and events at Solar Power 2004, including experts' opinions on the future of solar can be found at:
http://biz.yahoo.com/prnews/041020/sfw151_1.html
<http://www.planetark.com/dailynewsstory.cfm/newsid/27783/story.htm>

10-20-04 Las Vegas Solar Power

The Las Vegas Valley Water District Board of Directors approved a \$22.6 million contract to initiate the development and construction of a 3.1-MW PV solar energy project, in partnership with Nevada Power Company and PowerLight Corporation Story at: http://biz.yahoo.com/prnews/041019/latu094_1.html
PowerLight: <http://www.powerlight.com/>

10-20-04 BP Solar Initiatives

BP Solar will move forward with 3 projects to strengthen its position in the solar electric market. They include doubling the plant capacity at its Frederick, Maryland plant, teaming with The Home Depot to market BP Solar home systems, and renewing its corporate sponsorship to the U.S. DOE's 2005 Solar Decathlon. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO247.htm>
BP Solar: <http://www.bpsolar.com/ContentMap.cfm?page=10>

10-20-04 San Francisco Mayor Newsom Solar Announcements

Mayor Gavin Newsom announced that San Francisco will soon deploy its second large-scale solar electric system at the San Francisco Public Utilities Commission Southeast Water Pollution Control Plant. The 225-kW solar array will come on line summer 2005, and will be furnished by PowerLight. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR428.htm>
PowerLight: <http://www.powerlight.com/>

10-20-04 U.S. Department of Energy Hydrogen Awards

DOE awarded \$75 million in research grants in support of President's Bush's Hydrogen Fuel Initiative, including grants for solar electrochemical water splitting to GE Global Research, University of California-Santa Barbara, MVSystems, Inc., and Midwest Optoelectronics, as well as grants for solar thermochemical water splitting to University of Colorado-Boulder, Stirling Energy Systems, Inc., and Science Applications International Corporation and team members. For the press release, and a link to the list of award recipients, see:

http://www.energy.gov/engine/content.do?PUBLIC_ID=16784&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

10-20-04 DTE Hydrogen Technology Park

DTE Energy partnered with the U.S. Department of Energy, state of Michigan, and city of Southfield to develop, build, and operate a pilot project that will create hydrogen gas from tap water, and use the gas in fuel cell generators and to refuel fuel-cell-powered vehicles. The hydrogen will be produced using electricity from a combination of grid power and on-site PV.

<http://www.centreforenergy.com/displayNewsArticle.asp?From=NewsSearch&Search=&ResultCategoryType=2.7&NewsPageID=5&NewsID=2493971&template=2.2&currPage=1>

10-20-04 World Production of Solar Cells

For coverage of data on world production of solar cells, markets, and related information see the story and link to the World Policy Institute at: <http://www.enn.com/aff.html?id=111>

10-20-04 U.S. PV Industry Roadmap

The U.S. Photovoltaic Industry Roadmap for 2005 and Beyond identifies the necessary steps to speed the decline in prices for solar electricity, spur the growth of markets, and generate clean industry jobs for a quarter million Americans. Story at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story;jsessionid=a841RoLUMN8a?id=17214>

Solar Energy Industries Association: <http://www.seia.org/>

10-20-04 UniRac's New PV Pole

UniRac's new all aluminum PV POLE TOP (tm) (PV Pole Top(TM) is a trademark of UniRac, Inc.) is on display at the Solar Power 2004 conference in San Francisco. The patent-pending gimbal facilitates any tilt angle from 0 to 60 degrees from the horizontal. Information at:

<http://www.unirac.com/>

10-20-04 Shell Solar's Installation in Thailand

Shell Solar has installed Asia Pacific's largest rooftop solar PV system - 460 kWp - at TESCO-Lotus' latest hypermarket Rama 1 in Bangkok. Story at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/market/business/viewstory;jsessionid=a841RoLUMN8a?id=17203>

Shell Solar: <http://www.shell.com/home/Framework?siteId=shellsolar>

10-20-04 Shell Solar Plant Efficiency

For a story about plant efficiencies gained at the Shell Solar Industries plant in Washington state, see:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2496323&ResultCategoryType=2.7&NewsPageID=3>

10-20-04 University PV Centre (Bill Eggertson)

The Canadian Association for Renewable Energies reports that a university has received \$4.4 million to create a Centre that will research advanced PV devices and systems, and develop PV technologies that offer a cost-competitive alternative to fossil fuels. Collaborators include 7 other

universities, 2 government collaborators, and 4 industry officials from 2 companies. News at: <http://www.renewables.ca/main/main.php>

10-20-04 Solaris at Clean Energy Forum

Solaris Nanosciences Corporation has been selected to participate in the National Renewable Energy Laboratory's 17th Industry Growth Forum 18-20 October. Solaris is pursuing 3 major applications of its nanoantenna platform technology, including advanced materials for PV. Story at: http://biz.yahoo.com/prnews/041020/new022_1.html

Solaris: <http://www.solarisnano.com/>

Industry Growth Forum: <http://www.incubator.com/nrel/>

10-20-04 More on Nevada Solar-Power Installation Program

A \$250,000 grant will be used to build a PV training demonstration center and for training electrician journeymen and apprentices to install PV systems. The Nevada State AFL-CIO and Joint Apprenticeship and Training Committee are managing the program. Story at:

<http://www.enn.com/biz.html?id=44>

10-20-04 Solar Power 2004

For coverage of the Solar Power 2004 conference taking place in San Francisco, California, see the article at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story;jsessionid=a2NflAEP4m19?id=17160>

10-19-04 SunPower PV Modules in North America

SunPower Corp. announced the North American launch of its high-efficiency PV module line previously available only in Europe. Said SunPower CEO Tom Werner, "We are very excited to be launching these new products here in our home market". SunPower's new product line comprises 3 module types, all utilizing SunPower's A-300 all-back-contact solar cells. Story at:

http://biz.yahoo.com/bw/041019/195480_1.html

<http://www.sunpowercorp.com/html/>

10-19-04 Sanyo Module Assembly Plant in Hungary

Sanyo Electric will build a solar module assembly plant in Hungary with production to start next June to supply European solar electric markets. Sanyo plans a production capacity of 50 MW in 2005, progressing to 100 MW in 2006. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASMA41.htm>

Sanyo: <http://www.sanyo.co.jp/>

10-19-04 FedEx Solar Electric Power System by PowerLight

FedEx Corp. and the City of Oakland announced that FedEx Express will construct California's largest corporate solar electric system at its hub at Oakland International Airport. The 904-kW system comprising 5,769 PV modules from Sharp will be designed and built by PowerLight, and completed in May 2005. Stories at: http://biz.yahoo.com/bw/041018/185101_1.html

Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR427.htm>

RenewableEnergyAccess: <http://www.renewableenergyaccess.com/rea/news/story?id=17120>

FedEx: <http://www.fedex.com/>

PowerLight: <http://www.powerlight.com/company/press-releases/index.shtml>

Sharp: <http://solar.sharppusa.com/solar/home/0,2462,,00.html>

10-19-04 Solar Electric System in Hurricane Charley

In 2002, SunWize Technologies designed and installed a 14.4 kW hybrid solar electric system at the Dry Tortugas National Park in Florida on Loggerhead Key. Throughout Hurricane Charley, with sustained winds of 120 MPH for 5 hours and recorded gusts of 133 MPH, the SunWize

system operated normally and maintained structural integrity. Story at: http://biz.yahoo.com/prnews/041019/nytu001_1.html
SunWize Technologies: <http://www.sunwize.com/>

10-18-04 First Solar Modules for German Solar Power Plant

First Solar has been selected as the primary module supplier for a solar power plant located in the northeast region of Bavaria, Germany. The company will supply 1.3 MW of its Compound Thin Semiconductor (CTS) solar modules for the Dimbach Solar Park. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR183.htm>
First Solar: <http://www.firstsolar.com/index.html>

10-18-04 XsunX Advisory Board

XsunX, Inc. announced the formation of a Scientific Advisory Board, and Dr. Arun Madan has been appointed as Chairman of the Board. Said Madan, "The manner in which renewable energy technologies are used and integrated seamlessly into our living and working environments may become more critical to the wide scale adoption of renewable technologies than simply striving to increase solar cell efficiency gains. The emerging markets for Building Integrated Photovoltaics, or 'BIPV', provide practical opportunities for the use of XsunX POWER GLASS(tm) (XsunX Power Glass(TM) is a trademark of XsunX, Inc.) technology as an integrated energy producing component to buildings in the form of vision glass and lightweight plastics. " Story at: http://biz.yahoo.com/bw/041018/185337_1.html
XsunX: <http://www.XsunX.com/>

10-18-04 Germany, WindWelt PV Project

WindWelt AG has sold a major solar power station in Kaufbeuren to the GLS Gemeinschaftsbank eG of Bochum, which will offer the 2-MW solar park to the public as an investment fund. The plant comprises about 13,000 SolarWorld PV modules. Story at Solarbuzz: <http://www.solarbuzz.com/news/NewsEUPR182.htm>
WindWelt: <http://www.windwelt.de/>

10-18-04 Spanish Soccer Club's PV

Spanish soccer club, RCD Espanyol, is planning to incorporate a more than 1-MW PV installation at their new stadium in the Barcelona area. The site will also include a solar thermal installation for hot water. Story at Solarbuzz: <http://www.solarbuzz.com/news/NewsEUPR181.htm>

10-18-04 Fuji Lightweight Solar Cell

For those with a subscription, this headline appeared on the news wires 17 October: Fuji Electric Unit Releases Lightweight Solar Cell, Nikkei Interactive 17:33 17-Oct-04

10-18-04 Magnetek PV Inverters

Magnetek, Inc. is exhibiting its new AURORA(tm) (Aurora(TM) is trademark of Magnetek, Inc.) PV inverter line just listed by UL at the Solar Power 2004 trade show opening today in San Francisco, California. Information at: http://biz.yahoo.com/bw/041018/185296_1.html
Magnetek Alternative Energy Division: <http://www.alternative-energies.com/>

10-18-04 Xantrex PV Inverters

Xantrex Technology, Inc. is introducing a new residential inverter at Solar Power 2004 — the Xantrex GT 3.0 Grid Tie Solar Inverter. Story at: http://biz.yahoo.com/prnews/041018/to045_1.html
Xantrex: <http://www.xantrex.com/>

10-18-04 EESI's Summary of Corporate Tax Bill Energy Provisions

For a summary of the energy provisions of the Corporate Tax Bill, see:
<http://www.eesi.org/publications/Press%20Releases/2004/10.14.04.htm>

In related news....

10-18-04 SHEC-Labs Strategic Partnership

SHEC-Labs announced a strategic partnership agreement with Clean 16 Environmental Technologies Corp and the University of Toronto. The partnership will provide design and research assistance related to the cleaning and separation of landfill gas that will be processed into hydrogen in SHEC-Labs' proprietary "Solar Hydrogen Generator". Story at:

<http://www.emediawire.com/releases/2004/10/emw168274.htm>

SHEC-Labs: <http://www.shec-labs.com/> SHEC-Labs process: <http://www.shec-labs.com/process.htm>

10-15-04 More on BP Solar Production Capacity

BP Solar will announce at the Sustainable Energy Expo 19-21 October that it plans to more than double its global solar PV production capacity over the next 18 months, from 90 to about 200 MW. For more on BP's plans, see the press at: <http://www.bpsolar.com/DisplayNews.cfm?id=94>

10-15-04 Electric Power Research Institute Roadmap

Non-hydro renewable energy offers the greatest potential for future growth of low-emission power in the U.S., according to EPRI. Story at ReFocus:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=34699649&accnum=1&topics=

For more information, access the 2003 Electricity Technology Roadmap at:

<http://www.epri.com/roadmap/default.asp>

10-15-04 Zero Energy Homes

The California Energy Commission is seeking proposals under its Public Interest Energy Research program for research and demonstrations on Zero-Energy New Homes (ZENH). Information and access to the announcement at ReFocus:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=23499698&accnum=1&topics=

10-15-04 U.S. Energy Tax Provisions

For coverage of the recently passed Corporate Tax Bill, which contains provisions for renewable energy, see the article in RenewableEnergyAccess at:

<http://www.renewableenergyaccess.com/rea/news/story?id=17038>

10-15-04 Minnesota Power RFP [Green Power Network]

Minnesota Power is seeking power supply proposals to meet a need of about 200 MW for intermediate or baseload supplies starting in 2009. Per the RFP, "The utility is interested in highly reliable capacity and high-load-factor energy, while encouraging cost-effective renewable energy resources." A renewable resource purchase must involve an offer of no less than 10 MW of nameplate capacity. "However, such resources do not necessarily need to provide reliable on-peak capacity or annual quantities of high-capacity-factor energy in order to be considered."

Proposal information at: http://www.mnpower.com/resource_request.htm

Green Power Network: <http://www.eere.energy.gov/greenpower/>

10-15-04 Pennsylvania Green Electricity

On behalf of Pennsylvania Governor Edward G. Rendell, Environmental Protection Secretary Kathleen A. McGinty announced that the Commonwealth has doubled its green electricity

purchase to 10% from 5%. Story at: http://biz.yahoo.com/prnews/041014/phth026_1.html
Pennsylvania Department of Environmental Protection: <http://www.dep.state.pa.us/>

10-15-04 Top 10 Nanotech Venture Firms

In the journal Nanotechnology Law & Business, experts list the top 10 venture firms most active in nanotechnology, the top firms being those others watch closely. Per the article, the leading nanotech VCs include Ardesta which publishes Small Times and has created or invested in 15 companies including Konarka, which is developing lightweight, flexible solar power panels. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2432792&ResultCategoryType=2.7&NewsPageID=3>

10-14-04 Solar Hydrogen

Secretary of Energy Spencer Abraham announced over \$5 million in hydrogen research grants to Ohio companies and universities. Included is a 3-year, \$2.9M grant to Midwest Optoelectronics LLC that will focus on developing solar electrochemical technologies. Partners include the University of Toledo, United Solar Ovonic Corporation, and NREL. Press at:

http://www.energy.gov/engine/content.do?PUBLIC_ID=16765&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

Toledo Blade press:

<http://www.toledoblade.com/apps/pbcs.dll/article?AID=/20041014/BUSINESS03/410140434/-1/BUSINESS>

10-14-04 California Energy Commission Award to Konarka

Konarka Technologies, Inc., announced that the California Energy Commission is providing funds from its Energy Innovations Small Grant Program for Konarka. The grant will be used to accelerate Konarka's efforts to bring aesthetically integrated plastic PV to the roofing market. Over the next 12 months, Konarka will apply this grant to examining the potential for coating patterned power plastic roofing materials that mimic the appearance of traditional roofing products. Stories at: http://biz.yahoo.com/bw/041013/135880_1.html and http://www.masshightech.com/displayarticleDetail.asp?Art_ID=66912

Konarka: <http://www.konarka.com/>

10-14-04 Cypress Semiconductor Results - SunPower

Concludes President and CEO T.J. Rodgers in announcing Cypress Semiconductor Corp.'s 3rd quarter results, "The fourth quarter will remain slow as the inventory comes in line with end-market demand, but looking into 2005, as the revenue of our subsidiary companies - particularly SunPower - accelerates, we believe that we will grow faster than the industry." Press at:

<http://www.stockhouse.com/news/news.asp?tick=CY&newsid=2481413>

10-14-04 U.S. Postal Service Solar Power Installation

The U.S. Postal Service announced that Chevron Energy Solutions has completed major energy efficiency upgrades and one of the largest federal solar power installations in the nation at the West Sacramento Processing & Distribution Center. The project includes a PV system mounted on a new parking structure, and other improvements. The 403-kW solar electric system by PowerLight Corporation covers nearly 28,000 square feet and uses 2,120 solar panels while providing shade and protection for 180 vehicles. Story at and photo at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR426.htm>

ChevronTexaco Energy Solutions: <http://www.chevronenergy.com/>

PowerLight: <http://www.powerlight.com/>

10-14-04 AXcess Report on Alternative Energy Projects

AXcess News released a story about alternative energy projects getting a boost from higher energy prices, with solar projects beginning to appear in greater numbers. The story includes mention of UK solar projects, Honeywell and Cathedral City's solar project, Vermont's projects, Arizona's Sulphur Springs Valley Electric Cooperative solar program, WorldWater Corporation, Evergreen Solar, and Energy Conversion Devices.

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=2415022&ResultCategoryType=2,7&NewsPageID=3>

AXcess:

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2Eaxcessnews%2Ecom&template=2,2>

10-14-04 Solar Incentives in California

Governor Schwarzenegger signed AB 2473 into law, which is a strengthened Solar Rights Act, primarily with respect to minimizing restrictions on solar aesthetics, and building officials' review of solar installations. For details, see the article in RenewableEnergyAccess at:

<http://www.renewableenergyaccess.com/rea/news/story.jsessionid=aTtvVIUV713e?id=16988>

10-14-04 Solar Incentives in Arizona

Sulphur Springs Valley Electric Cooperative announced its SunWatts program under which home and business owners would be reimbursed \$4 per watt with a 2,000-watt maximum per household and 5,000 for small businesses, for a maximum of \$8,000 or half the cost of the installation. The funding comes from the Arizona Corporation Commission-mandated EPS surcharge. Story through Solarbuzz <http://www.solarbuzz.com/News/Newspage.asp>

at: <http://www.bensonnews-sun.com/articles/2004/10/13/news/news6.txt>

10-13-04 Health Care with PV

Lifetime Health Care Medical Associates and Renewable Technologies, Inc. have designed and installed a 75-kW SolarStar(tm) (SolarStar™ is a trademark of Renewable Technologies, Inc.) solar electric system at the health care facility in Merced, California, comprising 624 PV modules (type?) plus inverters. The insulating, rooftop system was fastened to the building using an engineering technique that eliminates the need for any roof penetrations. Story and photos at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR425.htm>

Renewable Technologies, Inc.: <http://www.renewable.com/>

10-13-04 R&D 100 Awards

DOE issued a press release on 36 DOE-funded research projects winning R&D 100 Awards for 2004. R&D Magazine gives the awards for the most outstanding technology developments with commercial potential. Among the awards is one shared by Global Solar Energy, ITN Energy Systems, and NREL for CIGS thin-film technology. DOE press at:

http://www.energy.gov/engine/content.do?PUBLIC_ID=16761&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

R&D Magazine press:

<http://www.rdmag.com/Scripts/ShowPR.asp?PUBCODE=014&ACCT=140000100&ISSUE=0409&RELTYPE=PR&PRODCODE=00000000&PRODLETT=I>

10-13-04 Martin Green on Thin Silicon

Says Professor Martin Green, University of New South Wales, "The decision by a consortium headed by Q Cells, Europe's largest conventional cell manufacturer, to invest the multi-million euros required to commercialise 'silicon-on-glass' technology during 2005/2006 means photovoltaics could attain its full potential as a sustainable source of cheap electricity for both

the developed and developing world". Press at: <http://www.azom.com/news.asp?newsID=2137>
Q-Cells: http://www.q-cells.com/1_eng.php

10-13-04 PV Powered Inverters

PV Powered announced new, lower prices on the company's StarInverter 1800- and 2800-watt utility-interactive PV inverters, the 2nd price reduction this year on the StarInverter series. Story at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/market/business/viewstory?id=16916>

PV Powered: <http://www.pvpowered.com/>

10-13-04 Green Power Marketing Conference & Reports [Blair Swezey]

The Ninth National Green Power Marketing Conference recently held in Albany, New York (<http://www.eere.energy.gov/greenpower/conference/ninth.html?page=0>) drew more than 330 attendees. One of the highlights was a speech by Gov. George Pataki on green power markets and his renewable energy policies in New York, available at: http://www.newyorkadmin.com/cgi-bin/agenda.cgi?location=public&savefile=NYPSC_MC100404b. Two new green power reports were distributed at the conference: Green Power Marketing in the United States: A Status Report <http://www.nrel.gov/docs/fy05osti/36823.pdf>, and Trends in Utility Green Pricing Programs (2003): <http://www.nrel.gov/docs/fy05osti/36833.pdf>

10-13-04 Energy and Nanotechnology Workshop

Prospects for solar energy in the 21st century will be analyzed by scientists, policy-makers, economists, and industry experts meeting at Rice University's Baker Institute for Public Policy 16-17 October in Houston. Topics to be discussed include the state of the solar industry, a rationale for renewable energy, the economic and public policy of solar-derived energy, the science and technology of PV, thermal and photocatalytic systems, and the potential of new materials to advance the science of solar power. Information at:

http://www.eurekalert.org/pub_releases/2004-10/ru-ean101304.php

Conference site: http://cnst.rice.edu/conference_energy.cfm

10-13-04 Solar Photo Voltaics Report

Research and Markets has announced the addition of Solar Photo Voltaics 2003 Edition 1 to their offering. The report examines the status of the technology, its development, the size of the global market, and its future development. Press at:

http://biz.yahoo.com/prnews/041013/lnw024_1.html

Research & Markets: <http://www.researchandmarkets.com/reports/c7350/>

10-12-04 Thin-film PV

For the article "Finally: Thin-film PV", see the October 2004 issue of Photon International (subscription) pages 48 to 56. Per the lead-in, "Shortages in silicon feedstock and growing demand for PV modules are fueling major growth in thin-film manufacturing. For the first time, it appears that thin films are mature enough technically to provide a significant amount of product". This and other PV news at Photon International (table of contents): http://www.photon-magazine.com/photon/news_issue_2004-10.htm

10-12-04 Raymond Burr Vineyard's Solar

The Raymond Burr Vineyards are now the owners of a 30-kW PV system. The PV system, designed by SolarCraft Services, will power major winery operations. The system comprises 208 Sharp solar panels, with 13 PV-Powered PVP2800 2.8-kW inverters. Story at

RenewableEnergyAccess: <http://www.renewableenergyaccess.com/rea/news/story?id=16905>

Raymond Burr Vineyards: <http://www.raymondburrvineyards.com/>

SolarCraft Services: <http://www.solarcraft.com/indexmain.htm>

10-12-04 Kyocera and Mitsubishi PV Production & Sales

Between fall 2004 and spring 2005, Kyocera Corporation will increase the production of PV cells from 120 MW to 240 MW per year. Module production will also be increased, with new plants in Mexico and the Czech Republic. Mitsubishi Electric Corporation is also planning production increases, and the company plans to double the percentage of overseas sales from approximately 30% in 2003 to 60% in 2006. This and more news (by subscription) in "PV Activities in Japan", Osamu Ikki, RTS Corporation, ikki@rts-pv.com.

10-12-04 "Phase II" of Renewable Energy in America

The American Council On Renewable Energy (ACORE), with the Renewable Energy and Energy Efficiency Caucuses of the Senate and House of Representatives, announced a national conference to take place 6-7 December 2004 in Washington, DC. Said Dan Reicher, co-chair of the ACORE Advisory Board, and President of New Energy Capital, "After 30 years of outstanding effort by our country's best scientists and engineers, it is time to declare an interim success in our nation's RD&D program for renewable energy". The conference will call for Phase II, a new policy framework within which each of the renewable energy technologies, and all together, can focus on utilization, with continuing RD&D to support the utilization policy. Information at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story?id=16904>

Conference link: <http://www.acore.org/>

10-12-04 Mastervolt Inverters

Mastervolt BV plans shipments of over 40,000 solar inverters with a power rating of around 100 MW next year. Story at Photon International: http://www.photon-magazine.com/news/news_2004-10_eu_sn_Mastervolt.htm

10-12-04 PV Pilot in Australia

Prime Solar Ltd. is seeking \$60 million AUD in funding to construct a pilot 10-MW PV installation near the shire of Perenjori by the end of 2006. Story at Photon International: http://www.photon-magazine.com/news/news_2004-10_au_sn_Perenjori_Project.htm

10-12-04 Guide to Purchasing Green Power

For a copy of the "Guide to Purchasing Green Power", with a range of information from green power purchasing to current and potential Green Power Partners, access the EPA Website at: <http://www.epa.gov/greenpower/buygreenpower/guide.htm>

Press at: <http://www.ascribe.org/cgi-bin/spew4th.pl?ascribeid=20041011.083048&time=10>

10-12-04 AstroPower Liquidation Plan

Chief Judge Mary Walrath in U.S. Bankruptcy Court for the District of Delaware in Wilmington agreed to send the solar energy company's liquidation plan to creditors for a vote. Story through Solarbuzz at:

http://news.yahoo.com/news?tmpl=story&u=/thedeal/20041011/bs_deal_thedeal/creditorsdependencies

10-12-04 Tehran Solar Electricity

Installation of most parts of the mirrors of Shiraz's solar power plant, Fars Province, will be completed in March 2005. Additional information on the entire complex, including PV, can be found at Tehran Times:

<http://www.tehrantimes.com/Detailview.asp?Keyword=solar&Da=10/9/2004&Cat=9&Num=23>

10-11-04 First Solar Production

This year, First Solar has produced more than 70,000 solar panels and expects to have made 100,000 by year's end. A new assembly line to be in full operation by year's end will enable the plant to manufacture over 300,000 panels. Story at:

<http://www.toledoblade.com/apps/pbcs.dll/article?AID=/20041010/BUSINESS03/410100333/-1/ARCHIVES30>

First Solar: <http://www.firstsolar.com/index.html>

10-11-04 PV Façade on Spanish Hotel

Hotel Mount Malaga in Spain will be completed in the spring of 2005 and will include a large PV system. According to Jose Juan Garcia, project engineer for Isofoton - the solar cell manufacturer - the hotel will incorporate 1,075 solar PV panels in the façade of the building in the form of parasols. There will also be 165 solar thermal panels. Story at Solarbuzz (NBuzz) at:

<http://www.solarbuzz.com/news/NewsEUPR180.htm>

Isofoton: <http://www.isofoton.es/>

10-11-04 Recycling PV Panels

Toa Kagaku Kogyo KK and the National Institute of Advanced Industrial Science and Technology have developed a substance that helps separate solar panel components for recycling. Story through Solarbuzz (NBuzz) at (may need to cut/paste entire link):

http://www.hoovers.com/free/news/detail.xhtml?ArticleID=NR200410083010.1_63320001e41ce72b

10-11-04 Honeywell Building Solutions

Cathedral City, California, announced a \$2.7 M contract with Honeywell Building Solutions to make building improvements and improve energy efficiency. The project includes installation of a solar canopy on the parking garage adjacent to the Civic Center. Says Don Bradley, city manager, "Solar energy gives the city a reliable way to generate savings and affords us protection against energy rate increases." Story through Solarbuzz at:

<http://www.thedesertsun.com/news/stories2004/local/20041009002938.shtml>

10-11-04 UK Solar Project Funding

Seventeen new solar power projects were chose for funding worth GBP1.4 million. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=2359480&ResultCategoryType=2,7&NewsPageID=3>

10-11-04 Maui Electric Grant

Maui Electric Co. has won a \$50,000 grant from U.S. DOE's Million Solar Roofs Initiative to educate the public about the benefits of solar energy. Story at:

<http://pacific.bizjournals.com/pacific/stories/2004/10/11/daily4.html>

10-11-04 Renewables Made in Germany

For more on the symposium in Chicago titled "Renewable Energy, Made In Germany", see the story at: http://www.dw-world.de/dw/article/0,,1353113,00.html?maca=en-rss_english_top-388-rdf

10-11-04 Comments on USDA Rural Development Program

Agriculture Acting Under Secretary for Rural Development Gilbert Gonzalez is soliciting public comments on proposed program rules for administering the Renewable Energy Systems and Energy Efficiency Improvements program, which was created as part of the 2002 Farm Bill.

Information at: <http://www.magicvalley.com/news/business/index.asp?StoryID=6454>

USDA Rural Development: <http://www.rurdev.usda.gov/>

In related news...

10-11-04 Solar Thermal Plant in Nevada

The new Temporary Renewable Energy Development program in Nevada should allow construction to get underway at the Eldorado Solar Electric Generating Station sometime in 2005. Solargenix is now hammering out details of a financing plan said Gary Bailey, a manager at Solargenix Energy. Construction of the 50-MW plant is expected to take about 18 months. Story through Solarbuzz (NBuzz) at:

<http://www.inbusinesslasvegas.com/2004/10/08/utilities.html>

Solargenix Energy: <http://www.solargenix.com/prod/Company/companyoverview.asp>

10-8-04 Spire Equipment for Evergreen Solar

Spire Corporation announced it will provide Evergreen Solar with Spire's SPI-MODULE QA(tm) (SPI_MODULE QA™ is a trademark of Spire Corporation) 460, which combines Spire's solar simulator with automated loading and unloading, as well as HI-POT TESTER and ground continuity testing on an in-line platform. Story at: http://biz.yahoo.com/bw/041007/75663_1.html

Spire: <http://www.spire solar.com/>

Evergreen Solar: <http://www.evergreensolar.com/>

10-8-04 DayStar Jobs

Per this article, John Tuttle, chief executive officer of DayStar Technologies, says the company is on track to reach its target of 250 employees by 2008. Press at:

<http://www.timesunion.com/AspStories/story.asp?storyID=293120&category=REGION&newsdate=10/8/2004>

DayStar: <http://www.daystartech.com/>

10-8-04 SolarOne Security Lighting Systems

SolarOne(tm) (SolarOne™ is a trademark of SolarOne Solutions) Solutions announced that it delivered 5 grid-independent SoLed(tm) (SoLed™ is a trademark of SolarOne Solutions) Bus Shelter Security lighting systems to Eastern Connecticut State University. The company also delivered 2 stand-alone dormitory security systems to the University. Story at:

<http://www.solarone.net/News/docs/pr040930.html>

SolarOne: <http://www.solarone.net/>

10-8-04 Interstate Renewable Energy Council Newsletter

For the latest on DOE's Million Solar Roofs, Schools Going Solar, state incentives, and other news, see the today's issue of the IREC newsletter at: <http://irecusa.org/>

10-8-04 More on Green Power Awards

Rodney Strong Vineyards also received a Green Power Leadership Award. In October 2003 the winery installed 4,032 solar panels on its barrel warehouse, and the solar energy supplies power throughout the winery. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=2295973&ResultCategoryType=2,7&NewsPageID=3>

PowerLight Case Study: http://www.powerlight.com/case-studies/wineries/rodney_strong.shtml

10-8-04 U.S., Energy Tax Policy

The House passed the corporate tax bill conference report last night, which includes a number of tax breaks for energy, including renewables. The bill is in Senate hands now.

10-7-04 Sustainable Energy Coalition Recommendations

Twenty-seven member groups of the Sustainable Energy Coalition sent officials in the Office of Management and Budget, the U.S. DOE, and other federal agencies a detailed set of recommendations for funding energy efficiency and renewable energy programs in fiscal year 2006. For the story, and text of the letter, see: <http://www.enn.com/aff.html?id=72>

10-7-04 Energy Information Administration Solar Reports

The EIA has submitted the "Annual Solar Thermal Collector Manufacturers Survey" and the "Annual Photovoltaic Module/Cell Manufacturers Survey" to the Office of Management and Budget for revision and a 3-year extension. Comments must be filed by 5 November 2004. Information at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2284992&ResultCategoryType=2.7&NewsPageID=3>

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2283681&ResultCategoryType=2.7&NewsPageID=3>

10-7-04 Clean Energy Forum

For information, and to register for the 17th NREL Industry Growth Forum, see the Website at <http://www.cleanenergyforum.com/>. More than 350 investors, business executives and strategic business partners are expected for the forum, which will showcase 32 promising clean-energy companies poised for market growth.

10-7-04 Global PV Industry Platform

At the 19th European PV Conference, the Japanese, American, and European PV industry associations agreed to launch a global PV discussion. The participants will start the exchange 18 October at the Solar Power 2004 Conference in San Francisco. Press at:

http://www.epia.org/07news/newsletter_new.asp?c_year=2004&c_month=09&c_cat=1

Solar Power 2004: <http://www.solarpower2004.com/>

10-7-04 Hitachi Dye-sensitized Solar Cell

For those with a subscription, this title appeared on the news wires today: Hitachi Maxell Unveils Block-Like Dye-Sensitized Solar Cell, Nikkei Interactive 06:00.

10-7-04 Solar Power Training Program

The Bonneville Environmental Foundation, Puget Sound Energy, and the Puget Sound Electrical Joint Apprenticeship and Training Committee (PSEJATC) announced the dedication of a PV system on the PSEJATC's training center in Renton, Washington. The project provides an opportunity for electricians to gain hands-on solar design and installation experience. Story at RenewableEnergyAccess:

http://www.renewableenergyaccess.com/rea/market/business/viewstory;jsessionid=aUp6_vn5uqhf?id=12031

PSEJATC: <http://www.psejadc.org/>

10-7-04 Los Angeles RPS

The Los Angeles City Council passed language restricting electricity generated by the Hoover Dam from inclusion in the city's 20% by 2017 Renewables Portfolio Standard. Story at RenewableEnergyAccess:

http://www.renewableenergyaccess.com/rea/news/story;jsessionid=aUp6_vn5uqhf?id=16778

10-7-04 India, Loans for Solar Systems

SREI Renewable Energy Unit Ltd has launched easy financing schemes for solar home lighting systems in four districts of West Bengal. For more information on these programs, see the story

through Solarbuzz <http://www.solarbuzz.com/News/NewsPage.asp> at:
<http://www.thehindubusinessline.com/2004/10/07/stories/2004100703091900.htm>

10-7-04 U.S., Energy Tax Policy

The Corporate Tax Bill (JOBS), which passed out of conference committee yesterday and which contains some energy tax provisions, is scheduled on the House floor today.

10-6-04 WorldWater Alliance

WorldWater & Power Corporation has established a strategic alliance with Kirloskar Brothers Ltd., an Indian pump manufacturer, to develop water management systems to provide improved water and power supplies for rural and urban poor around the world. Kirloskar will develop projects that combine WorldWater's proprietary solar power technology with Kirloskar's range of pump and motor products. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASCO32.htm>

WorldWater: <http://www.worldwater.com/>

Kirloskar Brothers Limited: <http://web.kbl.co.in/>

10-6-04 SatCon Inverters

SatCon Technology Corporation launched its new 500 kW grid-connected PowerGate(tm) (PowerGate™ is a trademark of SatCon Technology Corporation) PV inverter, adding to its family of 50 kW, 100 kW, 225 kW, 500 kW 3-phase applications, and designs for 15-30 kW single-phase applications. Press at: http://biz.yahoo.com/bw/041006/65091_1.html

SatCon: <http://www.satcon.com/>

10-6-04 More on the Green Power Awards

For additional coverage of the Green Power Leadership Awards, including recognition of the Bonneville Environmental Foundation, see RenewableEnergyAccess at:

<http://www.renewableenergyaccess.com/rea/market/business/viewstory?id=16719>

In related news...

10-6-04 SHEC Labs Partnership

SHEC labs has entered into a strategic partnership with Giffels Associates Limited. The agreement will enhance SHEC labs' ability to compete for funding from the Canadian government, and will allow SHEC to work more effectively with existing and new partners. Giffels has done work for SHEC labs in the past, validating the "Solar Thermal Catalytic Processes". Story at: <http://www.emediawire.com/releases/2004/10/emw164596.htm>

SHEC labs: <http://www.shec-labs.com/>

Giffels: <http://www.giffels.com/>

10-5-04 GT Equipment Technologies' Record

GT Equipment Technologies, Inc. announced that it is ending the 3rd quarter with new and record bookings from its worldwide business. The new bookings are for capital equipment used in the solar manufacturing industry, and represent more than a 500% improvement compared to 3rd quarter 2003. Story at: http://biz.yahoo.com/bw/041004/46172_1.html

GT Solar: <http://www.qtsolar.com/>

10-5-04 Sharp at "CEATEC Japan 2004"

At Japan's largest electronics/IT exhibition 5-9 October, Sharp will exhibit solar cells under the theme of "solar cells for creating an environmentally conscious lifestyle", and Sharp will introduce the "expansion of solar generation systems for the future". Press at: http://sharp-world.com/corporate/news/040930_1.html

10-5-04 Xantrex and PowerLight

Xantrex Technology, Inc. announced it was selected as a supplier of PV solar power inverters by PowerLight Corporation. The companies have signed a multi-year supplier agreement. Said Dan Shugar, President of PowerLight, "We've enjoyed a great relationship with Xantrex and look forward to building upon our successes. Xantrex helped the PV industry grow to the next level over the years by building large units in response to our needs, and certifying those units with Underwriters Laboratories." Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNACO250.htm>

Xantrex: <http://www.xantrex.com/>

PowerLight: <http://www.powerlight.com/>

10-5-04 Green Power Awards

Cal State Hayward is a winner of the 2004 Green Power Leadership Award for its PV system. The university's solar electric system, developed by PowerLight, is one of the largest collections of PV panels in Northern California. Press at:

<http://eastbay.bizjournals.com/eastbay/stories/2004/10/04/daily7.html>

Whole Foods is an Award winner as the second largest non-governmental green power purchaser in America. Story at: http://biz.yahoo.com/prnews/041005/datu025_1.html

For all award winners, see the Green Power Partnership Website at:

http://www.epa.gov/greenpower/winners/2004_awards.htm

10-5-04 Connecticut Solar

Under a new 3-year program, Connecticut's Clean Energy Fund will cover half the costs for installing a residential solar energy system, with a maximum of \$25,000 per installation. Stories at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=58107583&ID=cnniw&scategory=Energy%3AAlternative& and Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO203.htm>

10-5-04 Connecticut Clean Energy Fund: <http://www.ctcleanenergy.com/>

10-5-04 Additional Coverage of Renewables on Tribal Lands

For more information on the grant funds available through the Tribal Energy Program, see the article at RenewableEnergyAccess:

<http://www.renewableenergyaccess.com/rea/news/story?id=16669>

Tribal Energy Program: <http://www.eere.energy.gov/tribalenergy/financial.html>

10-5-04 More Press on SCOTTeVEST and Global Solar Energy Jacket

SCOTTeVEST and Global Solar Energy announced that their solar-powered jacket designed to carry, connect and charge portable devices will be available this holiday season. GSE's POWERFLEX(tm) (PowerFLEX™ is a trademark of Global Solar Energy) solar panels consist of flexible thin-film PV material made from CIGS. Story at:

http://biz.yahoo.com/bw/041005/55391_1.html

SCOTTeVEST: <http://www.SCOTTeVEST.com/>

Global Solar: <http://www.globalsolar.com/start.htm>

10-5-04 U.S., Energy Tax Policy

Mark-up of the Corporate Tax bill called JOBS (Jumpstart Our Business Strength - the American Jobs Creation Act) continues today (the main purpose of this bill is repeal of the Foreign Service Corporation/Extraterritorial Income tax benefit). A number of energy provisions are attached or proposed, including extension and expansion of the credit for electricity produced from renewable resources. Per Greenwire (subscription), the chairman has ruled against attaching

the comprehensive energy bill, but others will continue to fight for inclusion. House Ways & Means description of bill, amendments:

<http://waysandmeans.house.gov/Links.asp?section=1559>

10-4-04 European PV Solar Energy Conference & Exhibition

The City of Barcelona will host the 20th European PV Solar Energy Conference and Exhibition, 6-10 June 2005. Information at:

<http://www.renewableenergyaccess.com/rea/events/view?id=3140>

Conference Web site: <http://www.photovoltic-conference.com/>

10-4-04 California Energy Commission Workshop [Bob Aldrich]

The California Energy Commission's Renewables Committee and Integrated Energy Policy Report Committee are conducting a workshop to evaluate findings and recommendations from the study: Recommendations for Implementation under the Renewable Generation Integration Cost Analysis Effort. For information, and a link to the report, see:

http://www.energy.ca.gov/2005_energy policy/notices/2004-10-01_renew_workshop.html

10-4-04 Los Angeles Department of Water and Power Renewables

The Los Angeles Department of Water and Power withdrew its participation in the 900-MW expansion of the Intermountain Power Project in Utah on order from the LA City Mayor. Instead, LADWP will invest the projected \$350-400 million to develop renewable resources required by its renewable portfolio standard. Story at Platts:

http://www.platts.com/Magazines/POWER/Power%20News/2004/091704_11.xml

10-4-04 Konarka at NanoCommerce 2004

Konarka's Executive Vice President and Chief Marketing Officer Daniel McGahn will present "Focusing Your Nanotech Platform on One Market" at NanoCommerce 2004, and will participate in the panel discussion "Nanotech Solar - Coming of Age". Story at:

http://biz.yahoo.com/bw/041004/45404_1.html

NanoCommerce 2004: <http://www.nanocommerce2004.com/>

Agenda: <http://www.nanocommerce2004.com/agenda>

Konarka: <http://www.konarka.com/>

10-4-04 More on University of Nevada Las Vegas Solar

For coverage, and a photo, of the recent dedication of the Amonix Mega Module at UNLV, see the Review Journal at: http://www.reviewjournal.com/lvrj_home/2004/Sep-24-Fri-2004/news/24841364.html

10-4-04 Renewable Energy on Tribal Lands

For USDOE calls for proposals regarding energy efficiency and renewable energy systems on Tribal lands, see the web sites at: <https://e-center.doe.gov/iips/faopor.nsf/8373d2fc6d83b66685256452007963f5/0369aacc711a8a1485256f1e0053e1b5?OpenDocument>

<https://e-center.doe.gov/iips/faopor.nsf/8373d2fc6d83b66685256452007963f5/a2a417e80d06c09185256f1e00502eae?OpenDocument>

<http://www.go.doe.gov/funding.html>

10-4-04 U.S. Department of Energy Office of Science Grants

The annual notice of the "continuation of availability of grants and cooperative agreements" is posted on the web site at: <http://www.science.doe.gov/grants/FAPN05-01.html>

10-4-04 Small Business Innovation

For DOE's FY 2005 SBIR/STTR news on the deadline for receipt of grant applications, see the web site at: <http://www.science.doe.gov/sbir/>

10-4-04 U.S. Energy Tax Policy

The House-Senate conference committee will meet tonight to mark up the corporate tax bill, which includes energy provisions. Conferees proposed 340 amendments to the bill, including attaching some or all of the House or Senate versions of energy bill provisions.

In related news ...

10-4-04 Solar Tower license holder, SolarMission Technologies, Inc., has executed an investment agreement with Sunshine Energy Pty Ltd granting the technology rights for investors to build, own, operate, and maintain Solar Towers in China. Story at:

http://biz.yahoo.com/prnews/041004/Inm019_1.html

SolarMission Technologies: <http://www.solarmissiontechnologies.com/>

10-1-04 Wind Loads on Roof-based PV Systems [PV-UK]

For a discussion of wind loads on roof-based PV systems, see the article and link to report at:

<http://www.pv-uk.org.uk/news/news.php?id=137&page=detail>

For more news for PV-UK, see: <http://www.pv-uk.org.uk/news/index.php>

10-1-04 National Solar Tour

For continued coverage of the National Solar Tour, see SolarAccess at:

<http://www.solaraccess.com/news/story?storyid=7656>

2004 National Solar tour, October 2, 2004: <http://www.ases.org/tour/homepage.htm>

10-1-04 U.S., Energy Tax Policy

Several amendments incorporating parts of the stalled energy bill were submitted as amendments to the corporate tax bill, which is now in conference, by the 5pm deadline last night. The conference chairmen want to complete negotiations by the end of next week since Congress adjourns October 8. A new draft of the corporate tax proposal might be available this afternoon or Monday.

10-1-04 California's Solar Energy Funding Bill Signed

Governor Schwarzenegger signed AB 135, a bill that provides additional funding for PV system incentives in the Emerging Renewable Resources Account. Stories, including supporting quotes on solar from Schwarzenegger, at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAGO202.htm> and SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7651>

Link to the governor's press release [Graham Owen]:

http://www.governor.ca.gov/govsite/pdf/press_release/AB_135_sign.pdf

In related news...

10-1-04 Eliminating Oil Dependency

For coverage of the new report, "Winning the Oil Endgame: Innovation for Profits, Jobs, and Security", and a link to the Website and report, see SolarAccess at:

<http://www.solaraccess.com/news/story?storyid=7645>. The study was conducted by the Rocky Mountain Institute, co-funded by the Pentagon.

For a related article on shifting from oil, see SolarAccess at:

<http://www.solaraccess.com/news/story?storyid=7649>

SEPTEMBER

9-30-04 SPIRE Manufacturing Line in Spain

SPIRE Corporation announced it has executed a contract to provide Solaria Energia y Medio Ambiente of Madrid, Spain with a customized SPI-LINE(tm) (SPI-LINE™ is a trademark of the Spire Corporation) turnkey PV module production line. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUMA52.htm> and SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7648>

SPIRE News Release: <http://phx.corporate-ir.net/phoenix.zhtml?c=76421&p=IROL-SingleRelease&t=Regular&id=620846&>

9-30-04 XsunX Expansion

XsunX, Inc. has entered into a collaborative venture for the use of research and development facilities to further technology development of its semi-transparent solar electric glazing processes. The collaboration with MVSystems, Inc. is structured under a deliverables program providing incentives for various milestone achievements. The company is now working with specialists in the laser sciences field for development of laser processes related to the manufacture of large-area semi-transparent solar cells. Press at:

http://biz.yahoo.com/bw/040930/305271_1.html

XsunX: <http://www.XsunX.com/>

MVSystems: <http://www.mvsystems.info/>

9-30-04 Nova Scotia Power Renewables

ova Scotia Power will purchase 60 MW of green power from independent power producers and has issued a call for wind, hydro, tidal, biomass or solar projects that can be available by 2005.

News at ReFocus, News-in-Brief:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=66149539&accnum=1&topics=

9-30-04 Sustainable Energy Technologies Inverter

Sustainable Energy Technologies' SUNERGY 5-kW grid-interactive inverter for the PV market is being tested by Underwriters' Laboratories, with final testing scheduled soon. News at ReFocus:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=66149539&accnum=1&topics=

9-30-04 International Green Power Report

Research Reports International is offering the 2nd Edition of its International Green Power Report, a 300-page study of the international green-power market focusing on the US, Canada, Europe, and Australia. The report addresses biopower, geothermal, ocean power, PV, concentrating solar power, and wind. Information at:

http://www.researchreportsintl.com/products/product.cfm?report_ID=59

9-30-04 I.U.S., Energy Appropriations

The House and Senate passed a Continuing Resolution, which includes Energy & Water Development (renewables) and Interior & Related Agencies (Energy Conservation), for funding to November 20, 2004.

In related news...

9-30-04 Solar Thermal Energy Plant in Spain

Spain's ACS construction firm will help build a large solar-thermal energy plant outside the Spanish town of Gaudix. The plant will have 2 50-MW generators. Parties include Solar Millennium AG, Schott-Rohrglas providing mirrors, the aeronautical engineering firm Sener, and the Andalusian regional government.

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2208297&ResultCategoryType=2.7&NewsPageID=3>

9-29-04 Wacker Polysilicon Expansion

Wacker Polysilicon is expanding production at its Burghausen site in Germany, ramping up in two stages. The \$92.4 million investment is mainly due to increased global demand for polycrystalline silicon needed to manufacture solar cells. Wacker is also pursuing new processing approaches. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7634>

9-29-04 SunPower Investment

SunPower Philippines Manufacturing Ltd. is increasing its investment from an initial \$8.3 million to \$319 million in 2007. The Department of Trade and Industry quoted SunPower officials as saying the company produced export-standard silicon solar cells in less than two months after starting operations in March last year, and success reinforced the company's decision to expand operations and become the first large-scale solar cell facility in southeast Asia. For more on these developments, see:

http://money.ing7.net/topstories/view_topstories.php?yyyy=2004&mon=09&dd=29&file=4

9-29-04 U.S., Energy Appropriations

A Continuing Resolution to keep agencies funded after the end of the fiscal year is likely to run from 1 October through 19 November. Environment & Energy Daily (subscription) reported that a separate CR for Energy & Water Development may be forthcoming because of the controversy over Yucca Mountain funding.

9-29-04 Italian Investment In China Renewables

Italy will make an investment of CNY 10 million in a Sino-Italian technologies center for renewable energy in Lhasa, capital of Tibet Autonomous Region. See more on the center for solar energy resources in the story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2192064&ResultCategoryType=2.7&NewsPageID=3>

9-29-04 Konarka at "Nanotech and Energy" [Hilary Ives]

Konarka's Executive Vice President and Chief Marketing Officer Daniel McGahn will discuss applying PV nanotechnology to renewable energy solutions at Technology Review's Emerging Technologies Conference 29-30 September at the Massachusetts Institute of Technology.

Press at:

http://www.konarka.com/news_and_events/press_resources/media_alert/09_28_04_technology_review.php

Technology Review: <http://www.tretc.com/>

9-29-04 WorldWater & Power at Investment Conference

WorldWater & Power Corporation will present successes and milestones, including implementation of solar systems based on AquaMax(tm) (AquaMax™ is trademark of the WorldWater & Power Corporation), at the Southern California Investment Association Conference 2 October. Press at: http://biz.yahoo.com/bw/040929/295280_1.html

SCIA: <http://www.sciaonline.org/>

WorldWater: <http://www.worldwater.com/>

9-29-04 California, Green Award [Tina Nickerson]

Great White Dental Lab in Santa Maria is a 2004 recipient of the Green Award, having taken the initiative to have Solar Power Systems, a Shell Solar systems integrator, install a PV system that supplies more than 100% of the Lab's power needs, and sends excess power to the grid.

Shell Solar press. Green Award: <http://www.sbcapcd.org/grn/recips.htm>

Great White Dental Goes Green (see photo at Green Power):

<http://www.greatwhitedental.com/index2.html> Shell Solar:

<http://www.shell.com/home/Framework?siteId=shellsolar>

9-29-04 "Green Domains"

The Canadian Association for Renewable Energies has launched its "Green Domains" hosting service to complement the GreenHosting.org option. Green-Domains.com uses green tags to allow larger servers to post more files at a lower cost. See the notice, and other renewables news, at:

<http://www.renewables.ca/main/main.php>

Green Domains: <http://Green-Domains.com/>

9-29-04 Solar Backpack

See the "Voltaic" Solar Backpack at:

<http://addict3d.org/index.php?page=viewarticle&type=news&ID=3152>

9-28-04 California, Livermore City Hall PV System [Daryl Conklin]

The City of Livermore and Renewable Technologies, Inc. announced completion of a 75-kW rooftop solar system using Sanyo HIT 190-watt PV modules and Xantrex inverters. The system will generate an estimated 120,000 kWh per year, while insulating the building, helping to reduce cooling costs. The City is set to receive a substantial rebate from PG&E's Self-Generation Incentive Program. Renewable Technologies press; story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR422.htm>

Renewable Technologies: <http://www.renewable.com/>

9-28-04 University of Nevada Las Vegas Solar

UNLV highlighted their 45-foot tall Amonix Mega Module at a solar systems dedication ceremony last week. Coverage at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=57690966&ID=cnniw&scategory=Energy%3AAlternative&

9-28-04 Investments in Konarka

Konarka Technologies, Inc. announced that the Massachusetts Green Energy Fund and California-based Angeleno Group made strategic investments in the company. Story at:

http://biz.yahoo.com/bw/040928/285266_1.html

Konarka: <http://www.konarka.com/>

9-28-04 More on Business Week's "Another Dawn for Solar Power"

In the Readers Report of BusinessWeek Online are comments titled "More Light On The Future of Solar Power", with coverage of thin-film PV. See:

http://www.businessweek.com/magazine/content/04_40/c3902033_mz004.htm

9-28-04 More on New York's Renewable Energy Policy

A press release from the Natural Resources Defense Council on New York's new renewable energy requirement for 25% of the states' electricity to come from renewable resources by 2013 can be found at: <http://www.nrdc.org/media/pressreleases/040922a.asp>

9-28-04 Solar Car Racing

For National Geographic's coverage of the American Solar Challenge, which "serves as a kind of solar-car Super Bowl", see:

http://news.nationalgeographic.com/news/2004/09/0927_040927_solar_car.html#main. Says Richard King of the U.S. DOE Solar Energy Technologies Program, primary sponsor of the race, "It's really cutting edge technology, and they are pushing every year to get a faster car. That really accelerates the research and development in the electric-vehicle field as well as in the hybrid field." American Solar Challenge:
<http://www.americansolarchallenge.org/event/asc2005/sponsors.html>

9-28-04 More on Solar Web Hosting

For more on Steve May's Solar Data Centers, see the article "Is there money in being green" at:

http://news.zdnet.com/2100-3513_22-5381028.html
Solar Data Centers: <http://www.solardatacenters.com/>

Related story:

http://www.cxotoday.com/cxo/jsp/index.jsp?section=News&subsection=Technology&subsection_code=5&file=template1.jsp&storyid=1531>

In related news...

9-28-04 European Solar Thermal Industry

Installations of solar thermal systems in Europe increased by 25% in 2003. Sales quickly recovered from a 2002 slump and are forecasted to increase by another 24% in 2004. See information on the European Solar Thermal Industry Federation's market data and forecast at: http://www.estif.org/index.php?id=46&backPID=2&pS=1&tt_news=22

9-27-04 Germany, Solar Electricity Fund

As a result of participation by new investors in the Alliance Baden-Wuerttemberg solar electricity fund, solar installations will now be expanded by 25% to 500 kW from the previous 404-kW peak size. Said BUND Managing Director, Michael Spielmann, "We were positively surprised by the fast take up of the fund." "The speed of the take up demonstrates that we found the right partner in S.A.G. Solarstrom." Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsEUPR179.htm>
Solarstrom: <http://www.solarstromag.net/>

9-27-04 Sunways Expansion

The Supervisory Board of Sunways AG has authorized the Management Board to issue convertible bonds, with the funds envisioned for expansion of the company's production capacities. Story at Solarbuzz: <http://www.solarbuzz.com/news/NewsEUCO141.htm>

Sunways: <http://www.sunways.de/de/>

9-27-04 Solar Integrated Technologies First Half

Solar Integrated Technologies installed 1-MW of PV roofing in the first half of the year for a range of blue-chip customers including Coca-Cola, Frito-Lay and the US Air Force compared with 100 kW installed during the second half of 2003. Press at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNACO248.htm>
Solar Integrated Technologies: http://www.solarintegrated.com/COR_ABOUT.html

9-27-04 ScanWafer Appointment

The Board of Directors of ScanWafer appointed Mr. John Andersen, Jr. as President and CEO effective October 1, 2004. Press at Solarbuzz:

<http://www.solarbuzz.com/news/NewsEUACO142.htm>

ScanWafer: <http://www.scanwafer.com/>

9-27-04 WorldWater & Power Stock

WorldWater & Power Corporation announced it has drawn down the first tranche totaling \$1.19 million in a multi-stage agreement with an investment bank. The second and third tranches would bring WorldWater an additional \$2.45 million. Said Chairman and CEO Quentin Kelly, "This infusion of capital enables us to continue supporting our rapid growth". More on these transactions at: http://biz.yahoo.com/bw/040927/275389_1.html

WorldWater: <http://www.worldwater.com/>

9-27-04 State Renewables Policies

For a SolarAccess RE-Insider's view of state renewables policies, see the article by Colin Murchie at: <http://www.solaraccess.com/news/story?storyid=7609>. Says Murchie, "As Justice Louis Brandeis once said, the states are the 'laboratories of democracy;' we should employ their full capacity to develop ideal outcomes for the nation. Rather than ignoring states' recent development of unique mechanisms for multi-renewable development, we should extend them to other arenas - putting in technology shares, coupled tax incentives, and SBC-Like Tiers as appropriate so that all renewables truly benefit from an RPS."

9-27-04 California, City of Palo Alto PV Consultant RFP

A pre-proposal conference is set for 28 September for the Architectural/Engineering Consulting Services for Design of Photovoltaic Demonstration Project, Request for Proposals. Information through the California Solar Center at: <http://www.cityofpaloalto.org/purchasing/solicitations.html>

California Solar Center: <http://www.californiasolarcenter.org/index.html>

9-24-04 Reliability of PV Water Pumping Systems [GVEP Newsletter]

Between 1994 and 2000, 195 pilot PV water-pumping systems were installed mainly in 4 Mexican states as part of the Mexican Renewable Energy Program. After performing over 50 technical evaluations in 4 states, it was found that most of the installed systems are still operating as initially designed. Information in the GVEP newsletter, and at:

<http://www.gvep.org/content/general/detail/8778>

9-24-04 National Solar Tour

Nearly 2,000 solar-powered homes and buildings across the country will be open for public tours on October 2, and the media is invited to preview these homes the weekend or week prior to the Tour. Information at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7590>

ASES: <http://www.ases.org/>

9-24-04 Interstate Renewable Energy Council [Jane Pulaski]

For updates on green programs, incentives, rebates, and other renewable energy information, including recently completed revisions to state-by-state net metering and interconnection tables, see IREC at: <http://irecusa.org/>

9-24-04 I.U.S. Energy Tax Provisions

Last night Congress sent President Bush a family tax cut bill for signature that includes provisions for extending the wind energy production tax credits and other tax breaks for power production using closed-loop biomass and chicken waste and tax credits for electric vehicles and clean-fueled vehicles, through the end of 2005. This opens the door for the start of a conference on another energy tax package included in the corporate tax bill, though it is not certain that there is time to complete it before adjournment mid-October. Coverage at

SolarAccess: <http://www.solaraccess.com/news/story?storyid=7608>

9-23-04 GEMZ Corp. Marketing

GEMZ Corp. announced that its Board of Directors concluded a strategic review, and it has decided to focus GEMZ Corp. exclusively on its core strength - consumer product marketing. Therefore, the previously announced agreement with Terra Solar Development Corp. has been changed to a marketing agreement, without any transfer of equity or intellectual property and without GEMZ Corp. being responsible to fund ongoing product development. Press at:

http://biz.yahoo.com/bw/040922/225701_1.html

GEMZ: <http://www.gemzcorp.net/>

9-23-04 New York Renewables [Colin Murchie]

The New York State Public Service Commission voted to adopt a renewable energy policy designed to increase to at least 25% by 2013 the portion of electricity sold to consumers in New York that is generated from renewable resources. See the press release for much more detail on the policy at:

<http://www3.dps.state.ny.us/pscweb/webfileroom.nsf/ViewCat?ReadForm&View=ArticlesByCategory&Cat=Press+Releases&Count=10>. Stories at

SolarAccess: <http://www.solaraccess.com/news/story?storyid=7594>

Buffalo News: <http://www.buffalonews.com/editorial/20040923/1059918.asp>

Link through Solarbuzz: <http://www.newsday.com/news/printedition/longisland/ny-liwind233981547sep23.0.6832021.story>

9-23-04 XeroCoat

Australian researchers are commercializing a low-cost, hard and permanent anti-reflection surface coating that could boost the collection efficiency of solar cells. Being low cost, the team believes that XeroCoat is the solution for coating large areas such as solar collector surfaces.

Press at: <http://optics.org/articles/news/10/9/16/1>

XeroCoat: <http://www.xerocoat.com/>

9-23-04 Total Energie in Colombia

Total Energie has received a purchase order and at \$1.7 million contract for the Telecentros/Compartel Project in Colombia. A total of 54 Solar-Diesel Hybrid systems will be provided by the local Total Energie subsidiary, Tenesol Colombia Ltda. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsSAPR28.htm> Total Energie LatinoAmerica:

<http://www.total-energie-la.com/>

9-22-04 Kyocera's Global Infrastructure

Kyocera Corporation announced it is expanding its manufacturing infrastructure for solar PV modules by adding new production operations in North America, Europe and Japan, in a plan to double its PV manufacturing output within the next year. The company is creating a fully integrated PV module manufacturing framework for producing up to 240 MW per year by August 2005. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsASMA40.htm> and

http://biz.yahoo.com/bw/040922/225268_1.html

Kyocera: <http://global.kyocera.com/>

In other press, Kyocera will spend 700 million yen to set up a new solar cell plant in the Czech Republic to boost its global output and meet growing demand. The plant will increase its monthly output capacity to 4-5 MW by the end of fiscal year 2005. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2091553&ResultCategoryType=2.7&NewsPageID=3>

9-22-04 New Director of Oregon Renewable Energy Center

Rajiv R. Arya is the new director of the Oregon Renewable Energy Center at the Oregon Institute of Technology. Arya spent 20 years at BP Solar, including serving as executive director of the company's North American Technology Center, and served as program chairman of the PV Specialists Conference in 2002. Press at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=57415038&ID=cnniw&scategory=Energy%3AAlternative&

9-22-04 More on BP PV Power Plant and Cell Production

Additional coverage of BP Solar's PV power plant in Saxony Anhalt, initially at 4-MW with plans for 6 MW, and plans to expand global production capacities to approximately 200 MW, can be found in the BP Press at: <http://www.bpsolar.com/newplantnews.htm>

SolarAccess 9-17: <http://www.solaraccess.com/news/story?storyid=7557>

BP Solar: <http://www.solaraccess.com/marketplace/compdetail?compid=1249>

9-22-04 Additional Coverage of BP-RIT Research

Additional coverage of BP Solar's contract to the Rochester Institute of Technology's NanoPower Research Laboratories for work on nanotechnology PV research can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7586>

9-22-04 More on PV Power Plant in Germany

Shell Solar GMBH, the Society for Solar Energy (Geosol), and WestFonds Real Estate Co. worked together to construct the 5-MW, \$27 million plant near Leipzig. Story at:

http://ogj.pennnet.com/articles/web_article_display.cfm?Section=OnlineArticles&ARTICLE_CATEGORY=GenIn&ARTICLE_ID=212322

9-22-04 Renewable Energy in Hungary

Hungary will double its share of renewable energy by 2010 from the current level of 3.6% according to the Ministry of Economic Affairs. This and more renewables news at ReFocus News-in-Brief:

http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=50663394&accnum=1&topics=

ReFocus: <http://www.sparksdata.co.uk/refocus/newsdesk.asp?accnum=1>

9-22-04 Steven Strong Lecture

For coverage of the president of Solar Design Associates - Steven Strong's lecture exploring sustainability and the cost-efficiency of widespread solar power, see:

<http://www.cornellsun.com/vnews/display.v/ART/2004/09/22/415116358b47d>

9-22-04 Solar Cars

The University of Waterloo's Midnight Sun Solar VII solar car broke the unofficial distance record for a solar car tour in early September. Story at EERE Network News [Kevin Eber]:

<http://www.eere.energy.gov/news/#8178>

University of Waterloo: <http://newsrelease.uwaterloo.ca/news.php?id=4141>

Coverage of the University of Michigan's solar car team can be found at:

<http://www.michigandaily.com/vnews/display.v/ART/2004/09/22/41515c7a8a3c4>

University of Michigan: <http://www.engin.umich.edu/solarcar/>

9-22-04 Support for Energy Tax Incentives

In a letter delivered today to leaders of the U.S. House and Senate and to key congressional tax and energy policy committees, 29 member groups of the Sustainable Energy Coalition called upon Congress to enact the full set of pending energy efficiency and renewable energy tax incentives. [Sustainable Energy Coalition Press, Ken Bossong, 202-293-2898 x 201].

In related news...

9-22-04 Mars Rovers

Dust collecting on the solar panels has apparently leveled off, and according to Jim Erickson, the project manager, "the real important factor is how much solar energy we get, and that's looking great." They also marked the winter solstice on Mars, an important landmark because it means that days will get longer and the rovers will get more sunlight. NASA just authorized an additional \$2.8M a month for 6 more months of operations. Press at:

http://www.space.com/missionlaunches/rover_extension_040921.html

9-21-04 WorldWater & Power Hire

WorldWater & Power Corporation announced it has signed solar-power engineer Mark Pokryska as Project Manager. Pokryska comes from Lockheed Martin's Commercial Space Systems Company, Systems Engineering Group, where his work included contributions to the design of solar power systems for space exploration. Press at:

http://biz.yahoo.com/bw/040921/215626_1.html

WorldWater: <http://www.worldwater.com/>

9-21-04 NREL Accreditation

On September 15, the National Renewable Energy Laboratory (NREL) was approved for ISO 17025 accreditation by the American Association for Laboratory Accreditation, for the calibration of secondary photovoltaic reference cells, and received a certificate of accreditation. The Certificate 2236.01 and scope of accreditation can be located among all the accredited labs in the U.S. at the web site <http://www.a2la.org>. For further information, contact [Keith Emery](#), Measurements & Characterization Division, National Center for Photovoltaics at NREL.

9-21-04 Rhode Island Solar

In the first 100 days of the SmartPower CleanEnergyRI Campaign, 1,100 residential and small business customers began purchasing renewable electric power generated by a combination of wind, solar, biomass, and small hydropower. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2082928&ResultCategoryType=2.7&NewsPageID=3>

Clean Energy Rhode Island:

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2ECleanEnergyRI%2Ecom&template=2.2>

9-21-04 Synergies of Coal and Renewable Power

An opinion by the President of Sempra Energy Resources, Michael R. Niggli, which was published in the Reno-Gazette-Journal explains how using their expertise, environmental know-how, and solid financial resources, the company plans to marry Northern Nevada's renewable resources with efficient and cost-effective coal-fueled generation. Story at:

<http://www.rgj.com/news/stories/html/2004/09/20/80833.php?sp1=rj&sp2=Opinion&sp3=Opinion&sp5=RJ.com&sp6=news&sp7=opinion>

9-20-04 Sharp PV Roof Tiles

Sharp announced it will introduce to the Japanese market two new integrated PV module products for pitched roof applications. Story at Solarbuzz:

<http://www.solarbuzz.com/news/NewsASPT28.htm>

Sharp: <http://www.sharp.co.jp/sunvista/index.html>

9-20-04 XsunX Assets

XsunX, Inc. announced it has increased its patent and technology assets by acquiring an exclusive royalty-free license to a suite of patents and technologies specific to the design and manufacture of its semi-transparent solar electric glazing initiative. Press at:

<http://biz.yahoo.com/pz/040920/64102.html>

XsunX: <http://www.XsunX.com/>

9-20-04 Nanotechnology for Plastic Solar Cells

BP Solar has contracted the Rochester Institute of Technology's NanoPower Research Laboratories to develop plastic solar cells using nanomaterials. Total funding for the 3-year program is \$250,000. RIT researchers, led by Ryne Raffaele, professor of physics and microsystems engineering and director of the NanoPower Research Laboratories, hope to develop an improved polymer solar cell using nanomaterial additives. Story at:

http://www.eurekalert.org/pub_releases/2004-09/riot-nmq092004.php

9-20-04 NASA's Next Generation Solar Cells

A \$6 million, 4-year project, led by Sheila Bailey of the NASA Glenn Research Center, as part of the Human and Robotic Technology program to study nanomaterials and nanostructure for space PV, includes funding for the Rochester Institute of Technology and other research partners. Scientists in RIT's NanoPower Laboratories will use plastic solar cells containing nanomaterials. Says Ryne Raffaele, director of the RIT lab, "Plastic solar cells have been around for a long time. We're trying to use nanotechnology to improve their efficiency." Story at:

<http://www.physorg.com/news1232.html>

9-20-04 Brockton, Massachusetts Solar

The City of Brockton unveiled a 2.4kW solar project on the roof of Brockton High School, which is part of a larger project called "Brockton Solar Champions Partnership", funded by a U.S. DOE Million Solar Roofs grant. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7568>

9-20-04 LA Water & Power Renewables

The Los Angeles Department of Water and Power received more than 40 proposals for renewable energy projects, a milestone in its effort to increase renewable energy to 20% of its power portfolio by 2017. LADWP is seeking to acquire up to 1,320,000 MWh per year of additional renewable energy by the end of 2010. Story at:

http://biz.yahoo.com/bw/040917/175455_1.html

LADWP: http://www.ladwp.com/ladwp/areaHomeIndex.jsp?contentId=LADWP_POWER_SCID

9-20-04 Honolulu, Hawaii Solar & Hydrogen

Coming this fall to the Kapolei Hale parking lot will be a solar canopy recently purchased by the city from PowerLight. And, a generator powered by hydrogen and propane will supply more than half of the building's electricity needs. Story through Solarbuzz-NBuzz at:

<http://starbulletin.com/2004/09/18/news/story5.html>

9-20-04 California Energy Commission Grants

Ten small-scale innovative projects were awarded funds by the California Energy Commission from the Energy Innovations Small Grant Program, a part of the Commission's Public Interest Energy Research program. Of the grants, one is to Konarka Technologies to develop aesthetically pleasing PV modules for California applications to match residential roofing materials. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2072989&ResultCategoryType=2,7&NewsPageID=3>

9-20-04 U.S. Energy Appropriations

The Senate could begin deliberations this week on the FY 2005 Interior and Related Agencies appropriations bill, which contains Energy Conservation. The Senate Energy & Water Development appropriations bill is still hung up over the Yucca Mountain funding debate.

9-17-04 CIGS Plant

Malaysia, Mayang Kukuh Sdn Bhd plans to invest RM350 million over a period of 5 years to set up and run a CIGS thin-film PV manufacturing plant. Story at:

http://www.utusan.com.my/utusan/content.asp?y=2004&dt=0917&pub=Utusan_Express&sec=Corporate&pg=co_01.htm

9-17-04 Solar Power in Asi

A 1-MW PV system (type?) built by the Institute of Electrical Engineering under the Chinese Academy of Sciences was recently connected to Shenzhen's power network. Press at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2032382&resultCategoryType=2.7&NewsPageID=3>

9-17-04 SolarSynergy Hybrid Solution

The SolarSynergy system combines solar water heating and PV electric generation into one system. Story at:

<http://www.greenfutures.org.uk/briefings/Default.asp?id=1997&briefingtypedisplay=5>

Imagination Solar: <http://www.imaginationsolar.com/>

9-17-04 Sustainable Energy Coalition on Renewable Energy Funding [Ken Bossong]

In a letter delivered 17 September to members of the U.S. Senate Appropriations Committee's Subcommittee on Energy & Water, 25 member groups of the Sustainable Energy Coalition requested restoration of funding for key renewable energy programs in the U.S. DOE's FY 2005 budget, including geothermal, concentrating solar power, solar buildings, biomass, renewable production incentive, and general program direction. [Sustainable Energy Coalition press, Ken Bossong, 202-293-2898 x 201]

9-17-04 Transition to Renewable Energy for Security

Per this article, "It is imperative that we increase the pace of transition to worldwide use of RE for a safe energy future." For more information, and a link to the ISES White Paper, "Transitioning to a Renewable Energy Future", see the press at:

http://www.pressreleasenetwork.com/prnindex.phtml?link=newsroom/news_view.phtml?news_id=982 or

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=2029398&ResultCategoryType=2.7&NewsPageID=3>

9-17-04 Coverage of EIA's Solar Report

For a review and summary of EIA's recent report on the U.S. solar markets in 2003, including a link to the report, see SolarAccess at: <http://www.solaraccess.com/news/story?storyid=7558>

9-17-04 New Jersey Renewables

The report "New Jersey Renewable Energy Market Assessment" is serving as a foundation for New Jersey's Clean Energy Program to consider funding decisions about renewable energy over the next several years. For more on this report and New Jersey's programs, see

SolarAccess at: <http://www.solaraccess.com/news/story?storyid=7554>

9-17-04 California Energy Commission Workshop

The California Energy Commission will conduct a public workshop on a staff Proposed Pilot Performance-based Incentive Program for the Emerging Renewables Program, 27 September 2004. See notice and proposal at:

http://www.energy.ca.gov/renewables/emerging_renewables.html

9-16-04 EPIA News

The latest issue of the EPIA Newsletter can be accessed at:

<http://www.epia.org/07news/newsletter.asp>. Headlining this issue are the Global PV Industry Platform (GPIP) discussions, with the next exchange happening 18 October at Solar Power 2004 in San Francisco. For more company, national, European, international, and other news, see sections of the newsletter. For example, EPIA and the EUREC Agency made a joint response to the PV vision paper published recently by the PV TRAC, which can be downloaded at this site.

9-16-04 Electrical Contracting Foundation PV Project [Kevin Eber]

The Electrical Contracting Foundation voted to fund a study of the emerging PV market. The project will be led by Professor Thomas E. Glavinich of the University of Kansas. It will estimate the size of the PV market, recommend strategies for electrical contractors to enter the business, and define best practices for installing PV systems. Story at:

http://www.electri21.org/whats_new/report.cfm?ID=2485

Electrical Contracting Foundation: <http://www.electri21.org/>

9-16-04 U.K. PV Program

Energy Minister Mike O'Brien announced that schools, houses, and commercial buildings will benefit from £8.5 million extra new funding to encourage more energy production from solar panels and small-scale renewables. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUGO42.htm>

Energy Saving Trust: <http://www.est.co.uk/solar/>

9-16-04 More on Peccell Solar Cell

An update to the article on the Peccell Technologies, Inc. solar cell has been published at CNN YellowBrix at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=57106226&ID=cnniw&scategory=Energy%3AAlternative&

9-16-04 Solar World Congress

For details of the 2005 Solar World Congress to be held in Orlando, Florida 6-12 August 2005, see the article at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7542> and the Web site at: <http://www.swc2005.org/>

9-16-04 USDA Renewable Energy Initiatives

Agriculture Secretary Ann Veneman announced the selection of 167 recipients from 26 states to receive \$22.8 million in competitive grants for renewable energy efforts. A large percent of the 94 renewable energy applications selected this year will support anaerobic digesters and small and large wind power type ventures. A predominant number of the 73 energy efficiency grants will go to agricultural producers who will use the funds for buildings. For the USDA Press, and a listing of recipients, see: <http://www.usda.gov/Newsroom/0386.04.html>. The Senate Agriculture Committee recently approved the FY 2005 appropriations mark-up, which includes a \$20M recommendation for the Renewables Program.

9-16-04 Massachusetts, Clean Energy Company Funding

Eight companies in Massachusetts were selected by a state development agency to receive funds to help commercialize their technologies and products, including SolarOne Solutions, which received \$50,000 and Solectria, which received \$250,000. In addition, Nanoptek, which has developed a titanium catalyst to split water into hydrogen and oxygen using energy directly from sunlight, received \$250,000 and Seahorse Power Company making solar compactors, received \$50,000. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7541>

9-16-04 U.S. Energy Appropriations

The Senate Interior and Related Agencies Committee approved the FY 2005 Interior and Related Agencies Appropriations bill, which includes Energy Conservation. Press at: <http://appropriations.senate.gov/releases/record.cfm?id=226128>

9-15-04 Peccell's Dye-sensitized Solar Cell

Peccell Technologies, Inc. is planning to begin shipment of film-type dye-sensitized solar cell samples in 2006. For more on this technology, and Peccell's recent advances, see Solarbuzz at: <http://www.solarbuzz.com/News/NewsASTE10.htm>

9-15-04 Kyocera in Bolivia

Kyocera announced that ENERSOL S.A., an authorized Kyocera Solar dealer in Bolivia, is installing 443 residential PV systems in two Santa Cruz towns through a collaborative effort led by the Bolivian Vice Ministry of Electricity and Alternative Energy, working with the United Nations Development Program. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsSAPR27.htm>

Kyocera Press: http://www.kyocerasolar.com/news/news_detail.cfm?key=115

Kyocera: <http://www.kyocerasolar.com/>

ENERSOL S.A.: <http://www.enersol-sa.com/>

9-15-04 PV Moving West

According to an ABI report called "Global Photovoltaic Markets", Japan has led the field of commercial PV for years, but now the balance of activity is shifting to Europe, specifically to Germany. Story at: http://biz.yahoo.com/bw/040915/155487_1.html

ABI Research: <http://www.abiresearch.com/home.jsp>

9-15-04 California Energy Commission RFP

The California Energy Commission has issued an RFP on Zero-Energy New Homes under the Public Interest Energy Research Program. This RFP focuses on optimizing energy efficiency, onsite electricity generation, and cost-effectiveness. Developing solutions that integrate the best available energy efficiency measures and PV designs by climate zone, with the most effective business models to reduce the cost of these measures to the homeowner, is the primary goal of this RFP. This is an open RFP, and both private and public entities (including National Laboratories) are encouraged to respond. Information at:

http://www.energy.ca.gov/contracts/2004-09-13_500-04-501.html

9-15-04 Solar Tour

The American Solar Energy Society's 9th Annual National Solar Tour begins 2 October 2004 with more than 1,800 homes, businesses and public buildings open to visitors in 800 communities across the US. For more on the tour, see the story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7536> and the Web site at ASES:

<http://www.ases.org/>

9-15-04 U.A.E., Microsol Solar Cell Facility in Fujairah Free Zone

A 30,000-sq. ft. solar cell production facility by Microsol International in the Fujairah Free Zone was opened by Shaikh Saif Bin Hamad Bin Saif Al Sharqui, chairman of the Free Zone Authority. Story through Solarbuzz <http://www.solarbuzz.com/index.asp> at: <http://www.gulfnews.com/Articles/EmailToFriendPage.asp?ArticleURL=131975>

9-15-04 More on the European Solar Test Installation [Ewan Dunlop]

With the newly awarded status of Accredited Calibration Laboratory, the European Solar Test Installation at the EC's JRC has been confirmed as the European Reference point for the verification of Solar Photovoltaics Electricity Systems. For more information, see: <http://re.jrc.cec.eu.int/> and <http://www.jrc.cec.eu.int/>

9-15-04 WorldWater & Power's Solar Veteran

WorldWater & Power Corp. announced it has added Lawrence Slominski to its sales team. He will serve as Regional Manager, Technical Sales Support. Press at: http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040915005234&newsLang=en
WorldWater: <http://www.worldwater.com/>

9-15-04 Tony Blair at solarcentury

UK Prime Minister Tony Blair met with Jeremy Leggett, the CEO of solarcentury, during a visit on 14 September. Says Tony Blair, it's time to fight global warming with solar power and homegrown renewables. Story and photo at: <http://www.solarcentury.co.uk/news/newsitem.jsp?newsid=396>
Related article, Blair on climate change: <http://www.planetark.com/dailynewsstory.cfm/newsid/27129/story.htm>

9-14-04 BP Solar Cell Production

Steve Westwell, BP Vice President for Renewable Energies and head of BP's worldwide solar business has announced plans for expansion of BP's manufacturing capacity from 90 MW today to about 200 MW in the next 18 months. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUMA49.htm>
BP Solar: <http://www.bpsolar.com/>

9-14-04 Kyocera's New PV Module

Kyocera Solar introduced a new multicrystalline silicon PV module featuring its d.Blue technology. The new KC187G is the largest, most efficient PV module Kyocera has marketed to date. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPT89.htm>
Kyocera press at: http://www.kyocerasolar.com/news/news_detail.cfm?key=114
Kyocera: <http://www.kyocerasolar.com/>

9-14-04 Three Years of PHOTON Photovoltaic Stock Index [Michael Schmela]

In the first half of 2004, the solar index shot up by nearly 100%, thereby outpacing the AMEX Oil Index, which incorporates a good dozen large oil concerns. And since the beginning of 2003, the PPVX has been over 80% ahead of the oil index. See the story at PHOTON International at: http://www.photon-magazine.com/news/news_2004_09_ww_feat_PPVX.htm

9-14-04 Solar Report on PV Market - Sun Screen [Michael Schmela]

See PHOTON International for coverage of the Sun Screen report from Credit Lyonnais Securities Asia. Author and initiator of the study - Michael Rogol - reviewed over 300 companies involved in solar and met top solar executives leading to a 75-page study with priority investment opportunities. Rogol believes the industry will continue to grow at its current pace

with solar companies' total turnover expected to increase from around \$7 billion in 2004 to \$30-\$40 billion by 2010 and operating earnings to expand from \$700 million to \$3 billion in the same time period. For more on this story, and a link to the report, see PHOTON International at: http://www.photon-magazine.com/news/news_2004-09_wv_med_feat_Sun_Screen_Study_Article.htm

9-14-04 ARISE Corporate Development Team and Interim CFO

ARISE Technologies Corporation announced that it has formed a new Corporate Development Team. Also, Kurt Werth, an ARISE shareholder since 1999, becomes the CFO for an initial period of 4 months. Press at: http://biz.yahoo.com/bw/040914/145660_1.html
ARISE Technologies: <http://www.arisetech.com/>

9-14-04 WorldWater Operating Name

WorldWater & Power Corp. is the new operating name of WorldWater Corp. Press at: http://www.primezone.com/newsroom/news_releases.mhtml?d=63773
WorldWater: <http://www.worldwater.com/>

9-14-04 U.S. PV Shipments

According to this article, shipments of PV cells and modules declined in the U.S. last year for the first time in two decades. Details from the Energy Information Administration can be found in the article at ReFocus: http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=66462344&accnum=1&topics=

9-14-04 Audubon Society Solar

The Audubon Society in Rhode Island has completed an 8.1-kW PV system at its Environmental Education Center. The Society's project received funding from the Rhode Island State Energy Office under a program that provides incentives to non-profits and commercial entities that use renewable energy. New York-based EverPower Global was the installer. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7523>
EverPower Global: <http://www.everpowerglobal.com/>
Rhode Island State Energy Office: <http://www.riseo.state.ri.us/>

9-14-04 More on U.K. Solar Research

In a significant step to achieve carbon dioxide emissions reductions targets, a £4.5 million award has been made under the UK SuperGen programme to search for cheaper solar power. The grant made by the Engineering and Physical Sciences Research Council is the largest under the SuperGen programme. The new UK research in PV has brought together 6 university and 7 industrial partners. Stories at: http://www.innovations-report.de/html/berichte/energie_elektrotechnik/bericht-33544.html
http://icnorthwales.icnetwork.co.uk/news/regionalnews/tm_objectid=14639746&method=full&siteid=50142&headline=-pound-4-5m-grant-to-harness-solar-power-name_page.html

9-14-04 Green Power Revenues

Group Veritas announced completion of a year-long investigation of the Green Power market, resulting in the report "The Mainstreaming of Green Power". Included in the findings is that the number of customers purchasing green power has grown at an annualized rate of 31% per year over the last four years - one of the fastest growing markets in the United States today. Story at: <http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1973797&ResultCategoryType=2,7&NewsPageID=3>
<http://groupveritas.com/>

9-14-04 Pennsylvania 2005 Energy Harvest Funding Announcement

For information on the 2005 Energy Harvest Announcement, the second funding round from the Pennsylvania Program, see the web site at:

<http://www.dep.state.pa.us/dep/deputate/pollprev/ehg/default.htm>

9-14-04 California, Solar Desalination

A group planning a regional water desalination plant in Moss Landing is investigating the possibility of building a large solar energy plant at the same site to power the desalination process. Story at: <http://www.montereyherald.com/mld/montereyherald/news/9651227.htm>

9-14-04 Solar Boat

A solar-powered boat invented by an Edinburgh designer has been short-listed for the top prize in an international Concept Boat competition run by the British Marine Federation, supported by the Royal Institution of Naval Architects, and sponsored by the Environment Agency. More on the competition at: <http://news.scotsman.com/scitech.cfm?id=1078952004>

In related news...

9-14-04 Solar Hydrogen

Solar Hydrogen Energy Corporation demonstrated technology at the Arizona Public Service STAR facility for splitting hydrogen from water using solar energy input. The keys to the process are in a patent-pending catalyst that facilitates the liberation of hydrogen from water in the presence of heat, and the patent-pending solar collector that can hold the heat during brief, intermittent fluctuations in sun exposure. For the article and photos, see:

<http://www.emediawire.com/releases/2004/9/emw158144.htm>

SHEC: <http://www.shec-labs.com/>

http://pesn.com/2004/07/09/6900033_Solar_Hydrogen/

APS: <http://www.aps.com/home>

9-14-04 Newsweek Features on the Future of Energy

For MSNBC Newsweek's coverage of the future of energy, see the articles at:

<http://www.msnbc.msn.com/id/4264305/site/newsweek/>

9-13-04 Germany's Solar Electricity

Solar power in Germany has recently come on-line in a big way with the construction of several giant generators, the latest opening in Leipzig last week. For more on these developments, see the article at:

http://www.thepeninsulaqatar.com/Display_news.asp?section=Business_News&subsection=market+news&month=September2004&file=Business_News200409132476.xml

9-13-04 WorldWater Corp. and Quinalt Indian Nation

WorldWater Corporation announced it has been selected by the Quinalt Indian Nation of Washington State to assess implementation of renewable energy systems for the tribe's Quinalt Beach Resort and Casino. The Quinalt Nation secured the competitive grant under the U.S. DOE Tribal Energy Program. Stories at:

http://biz.yahoo.com/bw/040910/105120_1.html

<http://biz.yahoo.com/iw/040913/072502.html>

WorldWater: <http://www.worldwater.com/>

WorldWater also presented shareholders at the annual stockholders' meeting last week with positive news, including reports of the company's biggest sales year ever. Story at:

http://biz.yahoo.com/bw/040913/135426_1.html

9-13-04 Graetzel on Altair Nanotechnologies' Advisory Board

Altair Nanotechnologies, Inc. announced that Dr. Michael Graetzel has joined the company's Scientific Advisory Board. Story at: <http://biz.yahoo.com/iw/040913/072479.html>
Altair: <http://www.altairnano.com/>

9-13-04 Nano-PV

For an article on nanotechnology for a new solar-cell architecture, see Environmental Science & Technology at: http://pubs.acs.org/subscribe/journals/esthag-w/2004/sep/tech/jt_nano.html

9-13-04 Self-assembling Designer Molecules

The development of a new class of molecules is reported in the latest issue of the journal Science by Ulrich Wiesner at Cornell University, and his research team, with potential applications for solar and fuel-cell technology. Story at Clean Edge 10 September: <http://www.cleandedge.com/news-listing.php>

9-13-04 New Solectria Inverter

Evergreen Solar recently completed the installation of a PV array on their company facilities in Massachusetts. Solectria provided an inverter for the project - one of the first major demonstrations of Solectria's new grid-connected inverter. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7515>
Solectria: <http://www.solectria.com/>
Evergreen Solar: <http://www.solaraccess.com/marketplace/compdetail?compid=960>

9-13-04 Wall Street on Renewable Energy

For a perspective on Wall Street's take on renewable energy, see the article at: <http://msnbc.msn.com/id/5963503/site/newsweek/>
According to the article, the market is infamous for thinking short term. Meanwhile, multinationals like Sharp, Kyocera, Shell, BP, Sanyo, and Mitsubishi are making long-term investments in solar.

9-13-04 More on Solar Gear

Eclipse Solar Gear announced a new product launch in August 2004 which includes a line of backpacks, soft coolers, camera bags, messenger bags, saddle bags, and fishing tackle boxes, all with an integrated solar charging solution. Press at: http://biz.yahoo.com/prnews/040913/nym033_1.html
Eclipse Solar Gear: <http://www.eclipsesolargear.com/>

9-13-04 U.S., Energy Appropriations

The Senate Appropriations Committee plans to mark up the Interior and Related Agencies appropriations bill - which includes energy conservation -- on 14 September. The Energy & Water Development mark-up is still on hold due to controversy between Senators Domenici and Reid in how to fund Yucca Mountain.

9-10-04 BP Solar Installation in Germany

A new 4-MW, ground-mounted PV installation comprising 25,000 monocrystalline and multicrystalline PV modules will be inaugurated in mid-September in Geiseltalsee, Saxony-Anhalt. Plans are under development for expansion to 6 MW. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR174.htm>
BP Solar: <http://www.bpsolar.com/>

9-10-04 Additional Coverage of Konarka's Acquisition of Siemens' Plastic-based PV Cell Research

Earlier this week, Konarka announced that it acquired the solar research efforts of Siemens for pursuing a thin, flexible, plastic-based PV cell. According to the following article, Konarka's first commercial product will be a solar-powered tent for the Army; other products geared toward the consumer market should hit the shelves sometime in 2005. Story at:

<http://www.redherring.com/article.aspx?a=10834&hed=Next+Wave%3A+Solar+energy%2C+hot+ter+than+ever&or=Industries&subsector=%09%09%09%09%09%09%09Energy>

9-10-04 Additional Coverage of Mobile Electronics - the Solar Vest

Additional coverage of the Global Solar flexible PV panels for a solar-powered jacket made by ScotteVest Inc. can be found at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1951062&ResultCategoryType=2.7&NewsPageID=3>

<http://www.emediawire.com/releases/2004/9/emw156342.htm>

9-10-04 Clean Energy Investment Forum

Early registration ends today for the 17th NREL Industry Growth Forum, 18-20 October 2004.

For more information, visit the Web site at: <http://www.cleanenergyforum.com/>

9-10-04 Europe, Calibration Laboratory Accreditation

For information on the European Solar Test Installation as the European reference point for the verification of solar PV electricity systems, see the article at: http://www.innovations-report.de/html/berichte/energie_elektrotechnik/bericht-33404.html

9-10-04 Renewables Standards

According to a study by the Union of Concerned Scientists, a national renewable energy standard of 20% by 2020 would save families and businesses \$49 billion in lower electricity and gas bills, and create more than 355,000 jobs. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7500>

For the report, Renewing America's Economy, go to: http://www.ucsusa.org/clean_energy/

9-10-04 U.S., JOBS Bill with Energy Tax Package

A Congressional conference on the JOBS bill, which includes a \$19.4 billion energy tax benefits package, is still stalled. House conferees have not yet been named, and chairmanship of the conference is still undecided.

In related news...

9-10-04 "How Long Will the World's Oil Last"

For a perspective on the world's oil supplies and outlook, see the article at MSNBC by John Schoen, Senior Producer: <http://www.msnbc.msn.com/id/5945678/>

9-9-04 XsunX Acquires Trademark "Power Glass"

XsunX announced it has entered into an agreement to purchase all interests in the commercial trademark and Internet domain "Power Glass". Per the article, XsunX believes that its solar electric glazing technology has a number of major market opportunities in the worldwide architectural glass, optical film and plastics markets. Story at:

<http://biz.yahoo.com/pz/040908/63545.html>

XsunX: <http://www.XsunX.com/>

9-9-04 California, Los Angeles Department of Water & Power Solar Program

The Los Angeles Department of Water and Power voted to reinstate its program that provides incentives to businesses and homeowners who install solar electric systems. More on the program at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO197.htm>
LADWP: <http://www.ladwp.com/ladwp/homepage.jsp>

9-9-04 American Bar Association Committee [Holly Thomas]

On 15 September 2004, the ABA Renewable Energy Resources Committee is presenting "Recent Developments in California's Renewable Energy Portfolio Standard ("RPS") Initiatives, and the Development of the Western Renewable Generation Information System ("WREGIS"), launching a series of multi-site brown-bag teleconferences. For more information, see: <http://www.abanet.org/enviro/committees/renewableenergy/>

9-9-04 WorldWater Business Development

WorldWater Corporation announced that it recently signed Cassandra Kling to fill its newly created position of Director of Business Development, Eastern U.S. Kling was formerly the Renewable Energy Program Manager for the New Jersey Clean Energy Program within the New Jersey Board of Public Utilities. Story at: http://biz.yahoo.com/bw/040909/95177_1.html
WorldWater: <http://www.worldwater.com/>

9-9-04 SMA's Inverter

The Sunny Boy 6000U has a peak efficiency of 95.3% and can handle PV systems that in the past took multiple Sunny Boys. Information at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7465>

9-9-04 DOE - OPIC Partnership

U.S. Energy Secretary Abraham and Overseas Private Investment Corporation (OPIC) President and CEO Dr. Peter S. Watson signed an agreement acknowledging their partnership in efforts to promote investment in cleaner and more efficient energy technologies in emerging markets throughout the world. Both agencies will work to create an Efficient Energy and Renewables Program focus on innovative financing and partnerships leading to environmentally sound economic growth in developing countries. DOE press at: http://www.energy.gov/engine/content.do?PUBLIC_ID=16609&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

9-9-04 Solar Vest

SCOTTeVEST Inc. and Global Solar Energy announced their solar-powered jacket, designed to carry, connect and charge portable devices, will be available for the holidays. Solar panels are attached to the SeV's jacket which features SeV's patent-pending Personal Area Network. Press at: http://www.scottevest.com/pressrelease/sev_solar/index.html
http://www.scottevest.com/v3_store/30_index_solar.shtml
<http://www.globalsolar.com/mediacenter/newsreleases/2004/GSE040908.htm>

9-9-04 Renewable, Alternative & Hydrogen Energy Industry Almanac

Research and Markets has announced the addition of Renewable, Alternative & Hydrogen Industry Almanac to its offerings. Information at: http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040908005586&newsLang=en
Research and Markets: <http://www.researchandmarkets.com/>

9-9-04 U.S. Energy Appropriations

The Senate Energy & Water Development Subcommittee meeting to vote on the appropriations bill was cancelled yesterday, largely due to controversy over Yucca Mountain funding.

9-8-04 World's Largest Solar Power Plant [Tina Nickerson]

Shell Solar, GEOSOL and WestFonds have officially opened the world's largest grid-connected PV power plant in Espenhain, Germany. The Leipziger Land 5-MW solar power plant comprises 33,500 150-W, fixed-tilt, monocrystalline silicon solar panels. Said Hans Willemsen, Executive Vice President of Shell Solar, "This project clearly demonstrates Shell's determination and commitment to building a leading and profitable business in solar energy. Shell Solar has strategically been involved in the development of large-scale solar projects in Germany such as this, as we believe that these projects contribute to economies of scale, resulting in an increasing demand in the market for solar (PV) power." Stories at:

<http://www.shell.com/home/Framework?siteId=shellsolar>

http://www.dw-world.de/english/0,3367,1446_A_1321857_1_A,00.html

9-8-04 PV and Solar Thermal Report

EIA has published "Solar Thermal and Photovoltaic Collector Manufacturing Activities 2003, with Preliminary Data for 2003". PV tables can be found at:

<http://www.eia.doe.gov/cneaf/solar.renewables/page/solarreport/solartoc.html#pt>

EIA report: <http://www.eia.doe.gov/cneaf/solar.renewables/page/solarreport/solarmanu.html>

9-8-04 More on Konarka's Acquisition of Siemens Organic Solar Cell Research [Harin Ullal]

Additional coverage of Konarka's acquisition of Siemens' expertise on plastic solar cells can be found at:

<http://www.siliconindia.com/shownewsdata.asp?newsno=25408&newscat=Technology>.

Siemens scientist Christoph Brabec becomes Konarka's director of polymer PV research.

Thomas Grandke, head of the materials and microsystems department at Siemens' research organization joins Konarka's scientific advisory board.

9-8-04 EU Vision for Solar

The Photovoltaic Technology Research Advisory Council released a PV vision report, and accepted comments until 2 September. The document will be discussed at a conference later this month. For more information, see ReFocus at:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=98943728&accnum=1&topics=

9-8-04 U.K. Solar

According to Friends of the Earth, two key government-funding programs aimed at boosting solar energy in the UK are winding down earlier than planned, with lack of clarity as to what happens next. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7473>

9-8-04 Navajo's Solar Program

SunWize Technologies announced the completion of a residential renewable energy project with the Navajo Tribal Utility Authority in Arizona. The NTUA implemented a renewable energy program to provide residents with electric service at a reasonable cost in remote locations throughout the reservation. The 63 PV Power Stations were designed and supplied by SunWize. Story at: http://biz.yahoo.com/prnews/040908/nyw003_1.html

NTUA: <http://www.ntua.com/>

SunWize: <http://www.sunwize.com/>

9-8-04 Renewables in Chile

Chile's energy regulator CNE and the German technical cooperation agency GTZ signed an agreement to improve the conditions for development of renewable energy sources in Chile. GTZ will help develop policies and regulations favoring the introduction of power sources such as wind, biomass, geothermal, and solar. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1936892&ResultCategoryType=2,7&NewsPageID=3>

9-8-04 Renewable Energy Certificate Brokerage Services [Green Power Network]

The Massachusetts Technology Collaborative is requesting proposals from organizations that can assist the Renewable Energy Trust by brokering sales of Renewable Energy Certificates. Information at:

http://www.masstech.org/AgencyOverview/Opps/rfp_rec_01_04.htm

Green Power Network: <http://www.eere.energy.gov/greenpower/>

9-8-04 Sacramento Municipal Utility District 2004 Renewables Report

This report summarizes SMUD's current policies, plans, and activities in renewable energy development. Report available at:

<http://www.californiasolarcenter.org/solareclips/solareclips.html>

9-8-04 Solar Electric Systems for Housing Development

The San Francisco Public Utilities Commission has approved an agreement with Lennar/BVHP to include energy efficiency measures and solar electric systems in the construction of 1600 residential housing units. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR418.htm>

9-8-04 Interest in Solar Cell Energy Start-Ups

A copy of the San Jose Mercury News 16 August regarding solar cell start-ups can be accessed at: <http://www.californiasolarcenter.org/solareclips/2004.09/20040907-2.html>

9-8-04 California, CEC on Accelerated Renewable Energy Development and Performance-based Incentives

The California Energy Commission recently conducted a workshop to solicit input on its white paper, "Accelerated Renewable Energy Development". For a copy of the paper and public comments, see: http://www.energy.ca.gov/2004_policy_update/documents/index.html#08-27-04

Source: Solar e-clips: <http://www.californiasolarcenter.org/solareclips/solareclips.html>

9-8-04 Energy for the Future

Per this article, BHP Billiton and Exxon Mobile said clean, green energy sources will stay relatively insignificant for at least 20 years, so the world needs to work on using fossil fuels more efficiently. Said BHP Billiton chief executive Chip Goodyear, "All sources of energy will be in greater demand and primary fossil fuels will meet the major share of incremental energy demand for at least the next two decades". Within the non-fossil fuel area, the growth of nuclear (power) is expected to be slow and renewables may grow rapidly but from a very low base." Said Exxon Mobil Corp. science strategy manager Brian Flannery, renewable energy sources such as solar and wind power are not growing fast enough and, even with the most optimistic outlook, are expected to contribute just 1% of global energy supplies by 2020. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1936297&ResultCategoryType=2,7&NewsPageID=3>

Related article at: <http://www.abc.net.au/news/newsitems/200409/s1194026.htm>

9-8-04 Perspective on U.S. Solar

For a SolarAccess RE Insider's view by Denis Hayes on "Playing Catch-up with US Solar", see the article at: <http://www.solaraccess.com/news/story?storyid=7476&siteid=728>

9-8-04 U.S. Presidential Candidates on Electricity [Craig Cox]

Electric Perspectives asked the Republican and Democratic candidates to describe the key industry-related policies they would pursue if elected president. For their response, see the Edison Electric Institute site at:

http://www.eei.org/magazine/editorial_content/nonav_stories/2004-09-01-Politics.pdf

In related news....

9-8-04 Solar Thermal for Desalination

Deluge and the Phoenix Department of the Interior have signed an agreement to test new technology called a Thermal Hydraulic Engine, designed for use with geothermal or solar thermal, for desalination. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7478>

Deluge: <http://www.delugeinc.com/>

9-8-04 U.S., Energy Appropriations

The Senate Energy & Water Development subcommittee is scheduled to vote on the FY 05 appropriations bill this morning.

9-7-04 Konarka Acquires Siemens' Organic PV Research

Konarka Technologies announced it has acquired Siemens AG's organic PV research activities. Said Howard Berke, chairman and CEO of Konarka, "Siemens is one of the world's largest innovators in electronics and power generation, and this transaction augments Konarka's ability to deliver the first practical forms of solar power that achieve the price and efficiency performance required to be the global market leader in distributed energy." Stories at:

http://biz.yahoo.com/bw/040907/75273_1.html

New York Times:

<http://www.nytimes.com/2004/09/07/business/07solar.html?ex=1095570099&ei=1&en=6e1b65bb141b934a>

SolarAccess: <http://www.solaraccess.com/news/index.jsp>

Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO243.htm>

Siemens: <http://w4.siemens.de/ct/en/home/index.html>

Konarka: <http://www.konarka.com/>

9-7-04 WorldWater Contract

WorldWater Corporation announced it has executed a \$2 million contract for its proprietary AquaMax(tm) (AquaMax™ is a trademark of the WorldWater Corporation) solar-powered pumping system at a California citrus ranch. Story at:

http://biz.yahoo.com/bw/040903/35298_1.html

WorldWater: <http://www.worldwater.com/>

9-7-04 AXcess on Solar Boost

AXcess News released a story covering alternative energy stocks, which focuses on WorldWater Corporation. See the article at: <http://biz.yahoo.com/iw/040907/072218.html>

AXcess: <http://www.axcessnews.com/>

9-7-04 Conergy Record Profit

Hamburg-based supplier of solar systems and components, Conergy AG, increased sales revenue in the first half of 2004 by 91% compared to the same period last year. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEU140.htm>
Conergy: <http://www.conergy.de/>

9-7-04 Solar Power in the Philippines

The Negros Oriental provincial government, Shell Solar Philippines Corp., and the Southern Sun Solar Power Corp. signed a memorandum of agreement that seeks to provide solar-powered systems in rural areas through heavily discounted loan packages. Story through Solarbuzz at: http://news.ing7.net/regions/index.php?index=1&story_id=7843

9-7-04 Solar Soccer Stadium

Juwi GmbH and a soccer team have recently completed an additional step in their partnership for Germany's largest solar electricity installation on the roof of a soccer stadium. Operators of the approximately 1-million euro 240-kW PV installation on the Mainz stadium are private investors as well as the Mainz AG public utility. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUPR172.htm>

Juwi: <http://www.juwi.de/intro.htm>

9-7-04 China PV Website [Chen Minghua]

Solar Photovoltaic Expert, China, and the website of www.solaires.com provide information about the Chinese PV industry, including reports, research statistics, information analysis, and a monthly update of the Chinese PV industry technology, market and business opportunities. See the site at: <http://www.solaires.com/>

9-7-04 New Advocacy Group [Scott Sklar]

Twelve national energy experts, each of whom have been active in clean energy for more than 25 years, have joined together to establish a formal, virtual group to address key national and global issues on energy, environment and development. The experts are Donald Aitken of Donald Aitken Associates; Scott Bernstein, President of the Center for Neighborhood Technology; Deborah Bleviss, a partner in the BBG Group, which addresses sustainable urban transportation options; Ken Bossong, Coordinator of the Sustainable Energy Coalition; Joel Gordes, Executive Vice President of the New York Solar Energy Industries Association; Denis Hayes, President of the Bullitt Foundation; William Holmberg, Chairman of the New Uses Council and Director, Biomass Coordinating Council; Scott Sklar, President of The Stella Group, Ltd.; Todd Sneller, Administrator, State of Nebraska Ethanol Board; Steven Strong, founder of Solar Design Associates; Carol Werner, Executive Director of the Environmental! and Energy Study Institute; and Jack Werner with the Climate Institute in Washington, D.C. The "Clean Energy Opinion Leaders" will issue press releases and mini-reports on policy issues facing our country and the globe. For more information, contact solarsklar@aol.com.

9-7-04 U.S. Renewable Energy

For an opinion piece titled "U.S. lags on renewable energy", see the editorial in the Denver Post at: <http://www.denverpost.com/Stories/0,1413,36~417~2382908,00.html>

9-7-04 U.S., Climate Change Technology Program

Researchers in government, academia and industry will gather at the U.S. Climate Change Technology Program conference 12-14 October 2004 in Maryland to hear senior U.S. government representatives discuss the \$2.3 billion in FY 2005 R&D investments in a diverse portfolio of energy supply technologies critical to strengthening our ability to meet climate change challenges. Information at: <http://www.infocastinc.com/cctp.html>

9-7-04 Colorado Renewable Energy Society on Costs of Wind and Solar Electricity

CRES is presenting a tutorial on the cost of electricity from wind and solar to be held on several occasions. For information, see: <http://cres-energy.org/calendar.html>

9-7-04 Nevada PV Rebate Program

Assembly Bill 431 directs Nevada Power Co. of Las Vegas and Sierra Pacific Power Co. of Reno to rebate up to \$25,000 for qualifying residential PV systems, and up to \$150,000 for commercial businesses. The two utilities have funds to provide rebates for a maximum of 200 kW this year, and that allocation is already gone. Stories on the reaction at:

http://www.reviewjournal.com/lvrj_home/2004/Sep-02-Thu-2004/business/24674901.html

<http://www.sfgate.com/cgi-bin/article.cgi?file=/news/archive/2004/09/02/state1225EDT0055.DTL>

SolarGenerations: <http://www.solargenerations.com/>

9-7-04 California, San Francisco PV RFPs, National Conference

The San Francisco Public Utilities Commission issued two Requests for Proposals for new solar electric systems across the city. For details of the RFPs and links to the websites see Solarbuzz at: <http://www.solarbuzz.com/News/NewsNAPR416.htm>

The city will shortly be hosting the National Solar Energy Conference and Expo. Solar Power 2004 national conference: <http://www.solarpower2004.com/>

9-7-04 Georgia Renewables RFP [Green Power Network}

Georgia Power Company and Savannah Electric and Power Company have an RFP for renewable energy, with a bidders conference set for 17 September 2004 in Atlanta. Contact: tuadams@southernco.com.

Green Power Network: <http://www.eere.energy.gov/greenpower/financial/>

9-3-04 More on Xcel Energy Renewables Awards

Additional coverage of an advisory board's recommendations to the Minnesota Public Utilities Commission to award more than \$22 million from the Xcel Energy Renewable Development Fund to renewable energy projects, including solar, can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7463>. Included in the recommended R&D projects are: \$1M to NREL and the University of Minnesota to research development of organic semiconductor-based plastic solar cells that would reduce the high cost of PV module manufacturing; \$1 million to NREL and the University of Minnesota to develop a solar cell that would be significantly cheaper to produce than current wafer-based silicon solar cells; and \$1 million to InterPhases Research to discover a feasible process to develop a flexible PV cell for cost effective electricity generation. See also, the Xcel website at:

<http://www.xcelenergy.com/XLWEB/CDA/>

InterPhases Research: <http://www.interphases.com/>

U of MN Materials Research Science & Engineering Center:

<http://www.mrsec.umn.edu/index.shtml> and others

9-3-04 Australian Researchers on Solar Hydrogen

Additional coverage of the research by an Australian team on using special titanium oxide ceramics that harvest sunlight and split water to produce hydrogen fuel can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7474>

9-3-04 Whistler Investments Home

Whistler Investments, Inc., and its subsidiaries R-Electric Car Co., Global Electric Corp., and Solium Power Corp., have initiated development of the Natural Resource Home(tm) (Natural Resource Home™ is a trademark of the Whistler Investments, Inc.). The home will feature

energy sources such as solar panels and wind turbines. Solar-powered Lithium batteries will provide energy storage. Story at: http://biz.yahoo.com/prnews/040903/to197_1.html
Whistler Investments Natural Resource Home:
<http://www.whistlerinvestments.com/applications.php?sec=2&id=1>

9-3-04 Sharp Solar on Zero Energy Home

Sharp Electronics Corporation has installed a new 8-kW PV system at a residential building that represents North Texas' first Zero Energy Home. Story at Solarbuzz:
<http://www.solarbuzz.com/News/NewsNAPR414.htm>
Sharp: <http://solar.sharppusa.com/solar/home/0,2462,,00.html>

9-3-04 Renewable Resource Data Center

The RReDC provides information on several types of renewable energy resources in the United States, including solar, through publications, data, and maps. In particular, see PVWATTS (v1 and v2), a performance calculator for grid-connected PV systems, and GIS solar maps, at these Websites:

<http://rredc.nrel.gov/>
<http://rredc.nrel.gov/solar/>
<http://rredc.nrel.gov/solar/calculators/>
<http://rredc.nrel.gov/solar/calculators/PVWATTS/>
http://www.nrel.gov/gis/solar_maps.html

9-3-04 European Commission Conference [Pietro Menna]

The conference "Future vision for PV: A vision for the future of Photovoltaics Technology up to 2030 and beyond", will take place 28 September 2004 in Brussels. The objective of the conference is to present the Vision Report, which has been prepared by the Photovoltaics Technology Research Advisory Council, and to begin discussion on the next steps to implement the conclusions presented. More information at:

http://europa.eu.int/comm/research/energy/photovoltaics/vision_report_en.html
http://europa.eu.int/comm/research/energy/photovoltaics/introduction_en.html

9-3-04 Xcel Energy on Renewables in Colorado

For coverage of Xcel's chief executive statements on renewable energy in Colorado, see press at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=56453401&ID=cnniw&scategory=Energy%3AAlternative&
<http://www.chieftain.com/business/1094227004/7>

9-3-04 California Renewables Transmission Workshop [Bob Aldrich]

The California Energy Commission's Integrated Energy Policy Report Committee and Renewables Committee will conduct a workshop on renewables transmission planning September 14 in Sacramento. For more information, see:

http://www.energy.ca.gov/2005_energypolicy/notices/2004-09-02_trans_workshop.html

9-3-04 More on Sacramento Municipal Utility District's New Solar

A new PV array was added to the Rancho Seco property owned by SMUD to celebrate the 20-year anniversary of the utility's first major solar installation. More on "PV6" at SolarAccess:
<http://www.solaraccess.com/news/story?storyid=7466>

In related news...

9-3-04 U.S., National Solar Hot Water Lobbying Group

The nation's leading solar water heating manufacturing companies have formed a group to articulate the benefits of solar thermal applications to national and state and local government policymakers. The group, "Solar Water Heating National Advocacy Group" comprises CEOs of the US solar water heating industry, who make up over 90 percent of the US market.

Information at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO195.htm>

9-2-04 Polymer Solar Cells

Researchers from the TITK Institute in Rudolstadt, Germany have fabricated polymer solar cells on flexible 5x5 cm ITO-coated polyester films. Press at: <http://optics.org/articles/news/10/9/1/1>

9-2-04 Carmanah Technologies Order

Carmanah Technologies has received a Cdn\$178,000 i-STOP(tm) (i-STOP™ is a trademark of Carmanah Technologies Corporation) order from the Los Angeles County Metropolitan Transportation Authority. The i-STOP(tm) is a solar-powered illuminated bus stop with up to 3 LED-based features. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR413.htm>

Carmanah: <http://www.carmanah.com/>

9-2-04 Congressional Renewable Energy and Energy Efficiency Expo

The Seventh Congressional Renewable Energy and Energy Efficiency Expo is taking place in Washington, D.C. September 7. For more coverage of this event, see SolarAccess at:

<http://www.solaraccess.com/news/story?storyid=7459>

9-2-04 Australia's PV Roadmap

"Sunrise Vision" is a result of 10 months of industry consultation by the Australian Business Council for Sustainable Energy. For more on this roadmap, and a link to press release, see ReFocus at:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=11211795&accnum=1&topics=

9-2-04 Rhode Island RFP [Green Power Network]

The Rhode Island State Energy Office announced issuance of a draft request for proposals (RFP) for a 5-year purchase of Renewable Energy Certificates to match the full electricity use of the State House. Information at: <http://www.riseo.state.ri.us/riref/programs/rfp.html>

9-2-04 Renewables in Colorado

A national Renewable Portfolio Standard of 20% by 2020 would create 4,000 new high-skilled jobs in Colorado, and bring \$1.7 billion in capital investment, \$113 million in property tax revenues for rural communities, \$42 million in payments to farmers and rural landowners from producing biomass energy, and \$37 million in lease payments from wind power according to an assessment by the Union of Concerned Scientists. For more on this report, see ReFocus at:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=44117373&accnum=1&topics=

Union of Concerned Scientists: http://www.ucsusa.org/news/press_release.cfm?newsID=410

9-2-04 Green Power Growth

The generation of non-hydro green power has grown 12-fold in OECD nations since the OPEC crisis, according to the International Energy Agency. Story at ReFocus:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=80494326&accnum=1&topics=

IEA: <http://www.iea.org/dbtw-wpd/bookshop/add.aspx?id=28>

9-2-04 ICP Solar Promotion

ICP Solar Technologies announced that Spencer Jansen has accepted the title of Chief Technology Officer for ICP. Press at: http://www.icpsolar.com/article.php3?id_article=1018

9-1-04 Xcel Energy, Recommended Renewable Energy Project Selections

Twenty-five proposed renewable energy projects including solar have been recommended to receive more than \$22 million from the Xcel Energy Renewable Development Fund. An advisory board recommended to the Minnesota Public Utilities Commission that \$9.9 M be awarded to projects for energy production, and \$12.8 M for R&D. The R&D projects include: The National Renewable Energy Laboratory (NREL) and University of Minnesota to develop a solar cell that would be significantly cheaper to produce than current wafer-based silicon solar cells, \$1 M; NREL and the University of Minnesota to research development of organic semiconductor-based "plastic solar cells" that would reduce the high cost of photovoltaic module manufacturing, \$1 M; and InterPhases Research to discover a feasible process to develop a flexible photovoltaic cell for cost-effective electricity generation, \$1 M. Story at:

http://biz.yahoo.com/bw/040831/315786_1.html

Xcel Energy: <http://www.xcelenergy.com/XLWEB/CDA/>

9-1-04 GT Equipment Technologies Position

GT Equipment Technologies, Inc. announced that Thomas Zarrella has assumed the new position of President and Chief Operating Officer. Zarrella, the former Vice President, Chief Operating Officer, and a Director of RWE Schott Solar, Inc. will oversee and manage the day-to-day operations of the company. More at: http://biz.yahoo.com/bw/040831/315670_1.html

GT Equipment Technologies: <http://www.gtequipment.com/>

GT Solar Technologies: <http://www.gtsolar.com/>

9-1-04 EERE News [Kevin Eber]

For information on energy efficiency and renewable energy activities, from Xcel Energy's renewables request for proposal to Sacramento Municipal Utility District's latest solar addition, see EERE Network News at: <http://www.eere.energy.gov/news/>

9-1-04 ARISE Financial Results

ARISE Technologies Corporation announced their financial results for the second quarter that ended June 30, 2004. For information, see Solarbuzz at:

<http://www.solarbuzz.com/News/NewsNACO242.htm>

ARISE Technologies: <http://www.arisetech.com/>

9-1-04 Perspective on Energy Issues

For a perspective on energy policy in the U.S. at the time of the presidential election, see the opinion piece at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1902080&ResultCategoryType=2,7&NewsPageID=3>

9-1-04 Solar Energy Training in China

Trainees from 10 countries received diplomas from Chinese experts after their 2-month training session on solar energy technologies in northwest China. Story at:

http://news.xinhuanet.com/english/2004-08/31/content_1932288.htm

For more on this subject, see the article through SolarAccess

<http://www.solaraccess.com/news/index.jsp> at:

<http://www.scidev.net/news/index.cfm?fuseaction=readnews&itemid=1561&language=1>

AUGUST

8-31-04 More on Kyocera in the Czech Republic

Kyocera will open its first European production facility for solar modules in the Czech Republic. Kyocera has set a target production capacity at the plant of 24 MWp in the first year, expanding to 60 MWp in a couple of years. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUMA48.htm>

Kyocera: <http://www.kyocera.co.jp/>

8-31-04 Texas Jobs from Renewable Energy

Nearly 36,000 jobs could be created in Texas if a 20% by 2020 national renewable electricity standard were adopted, according to a study released by the Union of Concerned Scientists.

Story at: http://austin.bizjournals.com/austin/stories/2004/08/30/daily6.html?jst=b_in_hl

Union of Concerned Scientists: <http://www.ucsusa.org/index.cfm>

UCS Press: http://www.ucsusa.org/news/press_release.cfm?newsID=412

8-31-04 More on Sharp Concentrator PV System [PV Activities in Japan]

Sharp Corporation has developed a concentrator PV system in cooperation with Daido Steel Co., Ltd. and Daido Metal Corporation using InGaP/InGaAs/Ge solar cells and a special lens, with annual power generation per surface area about twice that of a PV system using crystalline silicon solar cells. Sharp plans to start test marketing in the U.S. from 2005. This, and much more PV news, in "PV Activities in Japan", by subscription. [Osamu Ikki, RTS Corporation, Tokyo, email ikki@rts-pv.com] See also PV Solar Energy Conference, Paris, June 2004.

8-31-04 Green Energy for the Republican National Convention

Constellation NewEnergy brokered a green-power supply with Sterling Planet for the Sheraton and other hotels in Manhattan, as well as the St. Regis, all owned by Starwood properties.

"Starwood is committed to energy efficiency and proud to participate in this program with Constellation NewEnergy", said John Lembo, corporate director of energy. Story at

SolarAccess: <http://www.solaraccess.com/news/story?storyid=7442>

8-31-04 Solar in the California Legislature

The California Legislature passed a "stop gap" measure to keep funds flowing to the California Energy Commission's solar rebate program, and at the same time failed to approve a solar homes bill authored by Senator Kevin Murray. For the latest, see the story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7444>

8-31-04 Solar in China

According to this article, the reserves of solar power in a whole year in China are equal to 1.7 trillion tons of coal. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1898703&ResultCategoryType=2,7&NewsPageID=3>

Related article at: http://news.xinhuanet.com/english/2004-08/30/content_1927843.htm

8-31-04 UNLV Solar Power Generation

The University of Nevada, Las Vegas (UNLV) solar power generation systems are highlighted on the website at: <http://www.egr.unlv.edu/solar/>

<http://www.egr.unlv.edu/solar/main.html>

8-31-04 State Renewable Energy Requirements and Goals

A report by the U.S. Energy Information Administration on U.S. state renewable energy

requirements and goals through 2003 can be found at:
<http://www.eia.doe.gov/oiaf/analysispaper/rps/index.html>

8-31-04 Distributed Energy and Renewable Energy Resources Conference

An international conference on the integration of renewable energy sources and distributed energy resources will take place in Brussels, Belgium 1-3 December. Information at:

http://dbs.cordis.lu/cgi-bin/srchidadb?CALLER=NHP_EN_NEWS&ACTION=D&SESSION=&RCN=EN_RCN_ID:22548
<http://www.conference-on-integration.com/>

8-31-04 ISP Certificate for Training Center in Munich

The Bildungszentrum für Solartechnik (BZS), Germany's first training institute specializing in solar power, has now been approved by the Institute for Sustainable Power (ISP). Information at:

http://www.german-renewable-energy.com/www/main.php?tplid=6&aktuell_id=40&PHPSESSID=383a0ccb1a476a093c19b66f3c416f5e

8-30-04 WorldWater Initiatives

WorldWater Corporation announced its strategic initiatives for 2004 and 2005, detailing its strategic plan to generate significant growth by dramatically expanding its market penetration of solar-powered technology in multiple markets on a worldwide basis. Story and initiatives at:

http://biz.yahoo.com/bw/040830/305364_1.html

WorldWater: <http://www.worldwater.com/>

8-30-04 Uni-Solar Ovonic Order

United Solar Ovonic LLC announced it has received an additional order of 750 kW of PV products from Alwitra GmbH & Co., Germany, which increases the total planned shipment to Alwitra to 1.5 MW in 2004. Story at:

http://biz.yahoo.com/prnews/040830/dem009_1.html

Uni-Solar: <http://www.uni-solar.com/>

8-30-04 Evergreen Solar \$5 Million Credit

Evergreen Solar, Inc. announced it has secured a \$5 million credit facility from Silicon Valley Bank. Said Richard M. Feldt, President and Chief Executive Officer, "We expect that the available funds will leverage our String Ribbon(tm) (String Ribbon™ is a trademark of Evergreen Solar, Inc.) technology to accelerate our growth in the booming solar market." Press at:

http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=ESLR&script=410&layout=-6&item_id=607578

8-30-04 WPD AG 1.75 MW PV Installation in Bavaria

WPD AG is proceeding with a 2nd major solar project: solar park Bavaria II. The roof-mounted plant at 1.75 MW is planned for grid connection at Dingolfing in Bavaria in November 2004.

Sharp Electronics modules are being installed. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUPR171.htm>

WDP AG: <http://www.wpd.de/>

8-30-04 Kyocera in the Czech Republic

Kyocera Corporation has decided to build a new solar panel production plant in Kadan, North Bohemia. Story through Solarbuzz at:

<http://www.interfax.com/com?item=Czec&pg=0&id=5750472&req=>

8-30-04 Solar Rooftops

The McConnell Companies got into the solar business as the landlord for AstroPower's facility.

Since then, McConnell started its own energy division to focus on developing solar panels for other commercial buildings. The company recently acquired a patent for the system it developed to install solar panels without the need to drill through a flat, warehouse-style roof. More on the AstraZeneca system, McConnell, and New Jersey solar at:

<http://www.delawareonline.com/newsjournal/business/2004/08/29solarpowergoess.html>

8-30-04 Renewable Energy Tariffs

For Paul Gipe's discussion of the benefits of renewable energy tariffs, see SolarAccess at:

<http://www.solaraccess.com/news/story?storyid=7392>

8-30-04 Hydrogen Research

Acting US Undersecretary of Energy David Garman will speak at the World Renewable Energy Congress and Expo in Denver today to outline a program that will invest over \$77 million in hydrogen research projects. Story at: http://www.h2cars.biz/artman/publish/article_627.shtml
http://www.energy.gov/engine/content.do?PUBLIC_ID=16423&BT_CODE=PR_MEDIAADVISORIES&TT_CODE=PRESSRELEASE

8-30-04 Congressional Renewable Energy & Energy Efficiency Expo

The Congressional Renewable Energy & Energy Efficiency Expo, Forum, and ice cream social is set for 7 September 2004 at the Cannon House Office Building in Washington, DC. The Expo will bring together more than 50 companies from across the U.S. representing more than 2 dozen renewable energy and energy efficiency technologies. The Expo is co-sponsored by members of the House and Senate Renewable Energy and Energy Efficiency Caucuses and the Sustainable Energy Coalition. [press, Ken Bossong, Sustainable Energy Coalition, Kbossong614@yahoo.com].

8-30-04 California Solar Homes Initiatives

An Assembly committee rejected Governor Schwarzenegger's proposal to encourage one million solar powered homes over the next 13 years. Story through Solarbuzz

<http://www.solarbuzz.com/index.asp> at:

<http://www.myrtlebeachonline.com/mld/myrtlebeachonline/business/technology/9510254.htm>

and at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7429>

8-30-04 Rancho Seco Solar Facility

The Sacramento Municipal Utility District celebrated the 20th anniversary of one of its first major solar installations at Rancho Seco with the dedication of new solar arrays at the site "PV6". The new installation, utilizing EPV Dunasolar thin-film modules, increases generation at the solar plant to 3.2 MW. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR411.htm>

SMUD: <http://www.smud.org/>

8-30-04 North American Solar Challenge

Whistler Investments, Inc. and its subsidiaries R-Electric Car Co., Global Electric Corp., and Solium Power Company, announced that a partnership between the UC Berkeley Engineering Department and Whistler Investments is complete. Whistler's development team will be working closely with UC Berkeley on the CalSol Project, a student run solar car project, to complete in the 2005 North American Solar Challenge. Story at:

http://biz.yahoo.com/prnews/040827/to089_1.html

CalSol Website: <http://www.me.berkeley.edu/calsol/index.php?id=home>

Whistler Investments: <http://www.whistlerinvestments.com/>

<http://www.whistlerinvestments.com/media.php?mediaID=040722>

American Solar Challenge: <http://www.americansolarchallenge.org/index.html>

8-30-04 U.S.-Mexico Bank Clean Energy Projects

The North American Development Bank is pursuing projects that seek to improve air quality in the U.S.-Mexico border region. Information at: http://biz.yahoo.com/bw/040830/305203_1.html
NADB: <http://www.nadb.org/>

8-30-04 "Another Dawn for Solar Power"

Per the last section of this article, if Solaicx, Stirling Energy, and Molycell deliver solar generation for \$1 a watt by 2007, the business of harnessing the sun's energy could go supernova. For more on these solar companies and others see the whole article at: http://www.businessweek.com/magazine/content/04_36/b3898119_mz018.htm

8-30-04 More on Hydrogen from Solar Energy

Additional coverage of the New South Wales University hydrogen project, demonstrating how to use solar energy to extract hydrogen from water using titanium dioxide as a catalyst, can be found at: <http://www.webindia123.com/news/showdetails.asp?id=46737&cat=Science>

In related news...

8-30-04 UNLV Solar Power Generation

For information on the University of Las Vegas Nevada solar power generation systems, see the website at: <http://www.egr.unlv.edu/solar/>
<http://www.egr.unlv.edu/solar/main.html>

8-30-04 Global Warming Report

In a report to Congress by the multi-agency Climate Change Science Program, the administration noted a recent government-sponsored study supported the view of many scientists that human action from driving automobiles to running power plants helped cause global warming. White House spokesman Trent Duffy said this one study does not change the administration's position and more research on the causes of global warming is still needed. Story at: <http://www.planetark.com/dailynewsstory.cfm/newsid/26821/story.htm>

8-26-04 TEP Springerville Generating Station Solar System

TEP currently has 4.6 MW of solar at the Springerville Generating Station Solar System (SGSSS) in northeastern Arizona. According to the GreenWatts Web site, the SGSSS is now the most productive PV site in the world. Information, and real-time data, at GreenWatts: <http://www.GreenWatts.com/pages/solaroutput.asp> Global Solar Energy: http://www.globalsolar.com/GLOBAL_FLASH.htm

8-26-04 Northern Ireland Solar21

Councils throughout Northern Ireland will have the opportunity to re-energize their properties for a quarter of the price thanks to Solar21, a new renewable energy support program from Northern Ireland Electricity in partnership with solarcentury. The new scheme will contribute 75% towards the cost of a high-efficiency Sanyo PV system. Press at:

<http://www.solarcentury.co.uk/news/newsitem.jsp?newsid=391>

NIE Smart Programme: <http://www.niesmart.co.uk/about.htm>

8-26-04 United Solar Ovonic BIPV on Schools

The first of 3 new California schools using solar energy is being dedicated today in Brentwood. United Solar Ovonic LLC is providing the 33-kW building-integrated PV (BIPV). Story at:

http://biz.yahoo.com/prnews/040826/lath009_1.html

UNI-SOLAR: <http://www.uni-solar.com/>

Akeena Solar:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1882640&ResultCategoryType=2,7&NewsPageID=3>

Akeena Solar Monitoring: http://www.akeena.net/solar_electric_systems/monitoring.html

8-26-04 More on NIST-Advanced Technology Program [Gerald Ceasar]

Over the past 6 years, ATP has initiated some 10 PV awards funded at a total of \$40.2 million in thin film, ribbon, and crystalline silicon solar technologies. To see more on these awards, type the word photovoltaic in the lower right corner on the ATP search engine at:

<http://jazz.nist.gov/atpcf/prjbriefs/listmaker.cfm>

Advanced Technology Program: <http://www.atp.nist.gov/>

8-26-04 Solar Data Centers Deal

Solar Data Centers Inc. a solar energy-powered Web host and Web design provider, signed an agreement with 3 Phases Energy to power all Solar Data Centers operations. 3 Phases will provide renewable energy to SDC using Green Certificates. Story at:

<http://thewhir.com/marketwatch/sol082504.cfm>

Solar Data Centers: <http://www.solardatacenters.com/>

8-26-04 German Renewable Power Sales

About 40-50 Germany companies that specialize in renewable energy technologies are touring Central and South America to spark sales interest. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1879774&ResultCategoryType=2,7&NewsPageID=3>

8-26-04 Konarka Honors at Innovation Summit

Konarka Technologies, Inc. Chairman and CEO Howard Berke was a top three finisher in the 2004 AlwaysOn(tm) (AlwaysOn™ is a trademark of Konarka Technologies, Inc.) Innovation Summit pitch competition. With only 5 minutes to pitch his company, Berke delivered a high-scoring presentation about Konarka's opportunity, market strategy, and innovative edge. Press at:

http://www.konarkatech.com/news_press/news_press_ceo_alwayson.php

AlwaysOn: <http://www.alwayson-network.com/events/index.php>

8-26-04 "The Renewable Frontier"

The Energy Daily in Washington, DC is the site of a discussion on "Energy: The Renewable Frontier", today at 10am. Participants include David Garman, USDOE; Randy Swisher, American Wind Energy Association; Rich Glick Pacificorp; and Scott Sklar, Solar Energy Industries Association. [Sponsored at Media Breakfasts at: <http://www.kingpublishing.com/> press event; look for more information from this event at the World Renewable Energy Congress]

8-26-04 More on the SunWize Solar Homes

SunWize Technologies, Gaia Productions, and a California developer have completed the first 8 homes for the energy efficient solar community Grand View Estates. For more on this development, see SolarAccess at:

<http://www.solaraccess.com/news/story?storyid=7413>

<http://www.solaraccess.com/news/story?storyid=7402>

SunWize: <http://www.sunwize.com/news/index.htm>

8-26-04 Hydrogen Generation with PV

The U.S. Department of the Navy issued a presolicitation notice to procure a hydrogen generator that will convert water to hydrogen gas using PV or utility grid power. Information at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1882383&ResultCategoryType=2,7&NewsPageID=3>

8-26-04 California Solar Homes

For an update on the status of the solar homes bill in California, see the article at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7422>

More on this and other renewables initiatives at:

<http://www.mercurynews.com/mld/mercurynews/business/9500400.htm?1c>

Related Story on Schwarzenegger's "green guru": <http://msnbc.msn.com/id/5798109/>

8-26-04 More on the Toronto Hydro Solar Electric System

The distribution unit of Toronto Hydro is dedicating one of Canada's largest industrial solar-power systems as a demonstration project. Sanyo Canada is supplying and installing the PV panels with assistance from Phantom Electron Corp., and Xantrex is supplying the inverters.

More on today's dedication at: <http://www.cnw.ca/fr/releases/archive/August2004/24/c3553.html>

Solarbuzz: <http://www.solarbuzz.com/index.asp> to

http://www.thestar.com/NASApp/cs/ContentServer?pagename=thestar/Layout/Article_Type1&c=Article&cid=1093471812274&call_pageid=968350072197&col=969048863851

8-25-04 Solar Cell and Module Efficiencies

"Solar Cell Efficiency Tables (Version 24)" by Martin Green, Keith Emery, David King, Sanekazu Igari, and Wilhelm Warta, has been published in Progress in Photovoltaics: Research and Applications, July 2004. The publication contains consolidated tables showing an extensive listing of the highest independently confirmed efficiencies for solar cells and modules. Progress in Photovoltaics: <http://www3.interscience.wiley.com/cgi-bin/abstract/109572693/ABSTRACT>

8-25-04 International Nanotechnology Corp. Product

GEMZ Corp. announced that its subsidiary, International Nanotechnology Corp., will demonstrate its first product in 4th quarter 2004. Per Zoltan Kiss, chief technology advisor to INC, pricing has not been announced but is expected to be very competitive with older, more limited solutions. Story at: http://biz.yahoo.com/bw/040824/245093_1.html

GEMZ: <http://www.gemzcorp.net/services.html>

8-25-04 New Jersey, Solar Renewable Energy Credits

The Sun Farm Network completed the transfer of its first bundle of Solar Renewable Energy Credits to a contracted buyer. The transaction represents the first known commercial sale of SRECs in satisfaction of New Jersey's requirements for renewable generation. Said Sun Farm Network's REC Trader George Klein, "This transaction represents an important first step in unleashing the inherent economic value of solar electricity - value that had previously been untapped." Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO238.htm>

Sun Farm Network: <http://www.sunfarmnetwork.com/>

8-25-04 California Solar Homes and Colorado Renewable Portfolio Standard

Governor Schwarzenegger announced his Million Solar Homes Initiative on August 20, and the corresponding bill - SB 199 - sponsored by Senator Kevin Murray has moved to the State Assembly and is up for approval this week. For more on this initiative, as well as on the statewide referendum on renewable energy in Colorado, see the story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAGO193.htm>

Environment California: <http://environmentcalifornia.org/>

Colorado, Renewable Energy: <http://www.RenewableEnergyYES.com/>

Vote Solar: <http://www.votesolar.org/>

8-25-04 Toronto, Canada Solar Project [Bill Eggertson]

Toronto will unveil its largest industrial solar power generation system, which uses Sanyo PV modules, at a downtown location to act as a case study for companies considering renewable energy. This and more renewables news at the Canadian Association for Renewable Energies: <http://www.renewables.ca/main/main.php>

8-25-04 Delaware Renewables RFP

The Delaware Municipal Electric Corp. has issued a request for proposals for renewable energy for up to 10% of their power. Information through the GreenPower Network, and RFP at: <http://irecusa.org/articles/static/1/binaries/DEMCRFP.pdf>

8-25-04 World Renewable Energy Congress

An estimated 900 delegates from more than 100 countries will attend the World Renewable Energy Congress, which starts Sunday in Denver, Colorado. Denver Post story at: <http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1876618&ResultCategoryType=2,7&NewsPageID=3>

8-25-04 Xantrex BOS and Systems Packages

Xantrex introduced balance-of-system components and system packages for its SW Plus Inverter/Charger that will simplify onsite assembly and installation of renewable energy conversion and management systems. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7412>

8-25-04 Space and Arctic Housing

An ESA-designed house that uses technology designed for space could become the basis of a new German Antarctic station. The house is designed to be autonomous, using solar power as well as advanced systems for recycling and clean water. Story at: http://www.esa.int/export/esaCP/SEMP3OW4QWD_index_0.html

8-25-04 Business and Financial Opportunities Links of Potential Interest

DARPA Organic PV: For an overview of the DARPA Microsystems Technology Office "OPV" program, see <http://www.darpa.mil/mto/opv/overview/index.html>. For DARPA Technical Offices Programs and solicitations information see: http://www.darpa.mil/body/off_programs.html

NIST-Advanced Technology Program: For information on the National Institute of Standards and Technology (NIST) Advanced Technology Program, including funding solicitations and awards, see http://www.atp.nist.gov/atp/awrd_comp.htm and the main ATP site at <http://www.atp.nist.gov/atp/about.htm>

National Science Foundation Opportunities and Awards: For information on NSF awards in photovoltaics, see <http://www.nsf.gov/awardsearch/progSearch.do?SearchType=progSearch&page=2&QueryText=photovoltaic&ProgOrganization=&ProgOfficer=&ProgEleCode=&ProgRefCode=&ProgProgram=&ProgFoaCode=&RestrictActive=on&Search=Search#results>. NSF Home <http://www.nsf.gov/start.htm> and NSF Funding Opportunities http://www.nsf.gov/home/grants/grants_opps.htm

Federal Opportunities: To search for opportunities in the Federal Register under particular topics, such as solar or photovoltaics, visit <http://www.gpoaccess.gov/fr/index.html> For the Federal Business Opportunities, see <http://www.eps.gov/> and the SBIR Gateway <http://www.zyn.com/sbir/>

NASA Opportunities: To search for NASA SBIR and other opportunities related to solar or photovoltaics, visit <http://sbir.gsfc.nasa.gov/SBIR/solicit.htm> and sites such as NASA Photovoltaic & Space Environments Branch, NASA Glenn Research Center <http://powerweb.grc.nasa.gov/pvsee/sitemap.html> and <http://homepages.bw.edu/~ahepp/NASAThinFilm.htm>

Department of Defense, Small Business Innovation Research (SBIR): See selection and award listings at <http://www.dodsbir.net/selections/default.htm> and main site <http://www.dodsbir.net/>

U.S. DOE EERE Financial Opportunities: For the Solar Energy Technologies Program financial opportunities, see http://www.eere.energy.gov/solar/financial_opportunities.html and sites such as Million Solar Roofs: <http://www.millionsolarroofs.com/>

NREL Business Opportunities: For NREL business opportunities, visit http://www.nrel.gov/business_opportunities/ and National Center for Photovoltaics Partnering & Growth at <http://www.nrel.gov/ncpv/pvmenu.cgi?site=ncpv&idx=2&body=partner.html>

Examples from Europe: Engineering and Physical Sciences Research Council, EPSRC, the UK Government's leading funding agency for research and training in engineering and the physical sciences <http://www.epsrc.ac.uk/ResearchFunding/default.htm>

8-24-04 Plastic Solar Cells

Additional coverage of the work at Brookhaven National Laboratory on "molecular wires" and relationships to plastic solar cells can be found at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNATE26.htm> and SolarAccess: <http://www.solaraccess.com/news/story?storyid=7403>

8-24-04 Dye-sensitized Solar Cells

For those with a subscription, this title appeared on the news wires August 23: Microwave Sintering Yields Bendable Dye-Sensitized Solar Cells, Nikkei Interactive, 20:45.

8-24-04 More on DARPA \$24 Million in Nano Awards

Additional coverage of the DARPA awards to Nanosolar and Nanosys for solar-cell-related contracts in the field of plastic solar cells can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7409>

8-24-04 DayStar's Progress and Plans

DayStar's 2004 Annual Meeting Presentation, June 2004, can be downloaded from:

<http://www.daystartech.com/annualpresentation.htm>

8-24-04 PV Design and Installation Manual

Photovoltaics: Design and Installation Manual, written by SEI, contains information to design, install and maintain systems. The manual contains an overview of PV electricity and detailed descriptions of PV system components, as well as information on sizing, site analysis, maintenance, and troubleshooting. Information at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7400>

Information on SEI Manual: <http://www.solarenergy.org/resources/store.php>

8-24-04 Lovins Interview [David Mooney]

Amory Lovins recently spoke with BusinessWeek's Industries editor Adam Aston, promoting the message that saving energy is easier than finding more. For the interview, see: <http://www.msnbc.msn.com/id/5797121/>

8-24-04 More on Arizona Solar Energy Programs

Additional coverage of solar incentives in Arizona can be found at: <http://www.dailystar.com/dailystar/business/35599.php>

8-23-04 PV Module Shortages

Three weeks ago SolarAccess.com offered readers a chance to comment on how the U.S. PV module shortage is affecting the solar industry and others. Nearly 50 responses helped to create a perspective on what is described as clearly a significant problem to the U.S. solar industry. More at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7382>
All responses: <http://www.solaraccess.com/news/story?storyid=7145>

8-23-04 "Direct Coupling" Technology

Nextek has completed a number of successful installations of their "Direct Coupling" technology - a grid-connected, inverter-less PV system which avoids inverter losses, net-metering complexities, and interconnection requirements by using DC power from PV systems for DC appliances instead of converting to AC power. Nextek has now issued a Request for Proposal and Statement of Work for demonstration of the technology. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7398>
Nextek: <http://www.NextekPower.com/tcnj/>
Direct Coupling: <http://www.DirectCoupling.com/>

8-23-04 Germany, New Solar Park

The first section of a new solar energy park was inaugurated in Gottelborn in Saarland, Germany. Total peak output is about 4 MW, and when complete is expected to be around 8 MW. The 23,500 PV modules (type?) were mounted and connected with 16 central 250-kW inverters. Module efficiencies are reported to be around 14%. Story and photo at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR170.htm>
Voltwerk AG: <http://www.voltwerk.de/en/index.php?&ID=0&language=en>
SolarCity AG: <http://www.city-solar-ag.de/>
ARGE "Solar" e.V.: <http://www.argesolar-saar.de/>

8-23-04 WorldWater Record Revenue

WorldWater Corp. announced an exceptional increase in revenue. According to the article, the significant increase in revenue is due to the Company's realization of its objective of providing world-class, proprietary solar technology systems to the agricultural and institutional marketplaces. Story at: http://biz.yahoo.com/bw/040820/205377_1.html
WorldWater: <http://www.worldwater.com/>

8-23-04 "Molecular Wires"

Says Brookhaven National Laboratory scientist John Miller, "Long molecules that can act as molecular wires, of which there are many variations, are one type of nanoscale object with the potential to lead to new technologies, due to their ability to conduct electricity and very small size." One potential application is in the field of "plastic solar". More on this concept at: <http://www.physorg.com/news894.html>

8-23-04 SunWize Technologies in Homes [Laurie Dubois]

SunWize Technologies announced that the first 8 homes have been completed in Grand View Estates north of San Francisco, that features 90 solar homes with the latest in energy efficiency. SunWize GTS systems are prepackaged and use UL listed products. The 2.5-kW GTS systems include 16 Sharp 185-watt solar modules and the new Fronius IG inverter. [SunWize press release] SunWize: <http://www.sunwize.com/> Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR409.htm>

8-23-04 California, Solar Homes

Said Governor Schwarzenegger last Friday, California should try to add solar energy systems to 1 million homes by 2017 to save electricity and cut pollution from power plants. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO192.htm> and <http://www.reuters.co.uk/newsArticle.jhtml?type=scienceNews&storyID=6035149&src=rss/uk/scienceNews&ion=news>
<http://www.sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/2004/08/21/BUG8N8BVS21.DTL&type=business>
<http://www.montereyherald.com/mld/mherald/news/state/9460833.htm>
http://www.nctimes.com/articles/2004/08/21/business/news/19_08_118_20_04.txt

8-23-04 Maine, New Solar Product

Naoto Inoue, co-founder of the Solar Market in Arundel, has a new product - the Blue Link Solar Network - a small, 480-watt, \$4,000 solar power system that arrives fully assembled. Story through Solarbuzz at: <http://pressherald.maintoday.com/business/stories/040821solar.shtml>

8-23-04 Alternative Energy Market Growth

Access News released a story about investors flocking to alternative energy stocks following the many news stories fueling concerns over energy. Story at: <http://biz.yahoo.com/iw/040821/071658.html>
Access: http://www.axcessnews.com/environmental_082104.shtml

8-23-04 China, Solar Training

Chinese scientists will train 10,000 technicians from African and other developing countries in the use of solar energy technologies over the next 5 years. Story at: <http://www.scidev.net/news/index.cfm?fuseaction=readnews&itemid=1561&language=1>

8-23-04 Arizona, PV Solutions in Heat Islands

PV covered parking canopies are highlighted in the discussion of how to reduce the valley heat islands. Story at: <http://www.azcentral.com/arizonarepublic/local/articles/0820heatland20.html>

8-23-04 Barriers to Renewable Energy Services

The U.S. International Trade Commission will provide an overview of foreign and domestic markets for renewables, and examine trade and investment in those markets, including barriers affecting trade and investment. Story at ReFocus at: http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=63866824&accnum=1&topics=

8-23-04 "Hydrogen Solar"

The U.K. firm Hydrogen Solar says it has doubled the performance of its Tandem Cell technology for conversion of sunlight into pure hydrogen fuel. This, and more solar news at ReFocus News-in-Brief: http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=69672793&accnum=1&topics=

8-23-04 Solar Car

Additional coverage of the Canadian solar car tour and tragic crash can be found at ReFocus at: http://www.sparksdatab.co.uk/refocus/fp_showdoc.asp?docid=27036685&accnum=1&topics=

8-20-04 Cache Creek Casino Resort Solar Electric System [Bill Jeppesen]

RWE SCHOTT Solar Inc., Pacific Gas and Electric Company, and Cache Creek Casino Resort jointly announced the commissioning of a 307.2-kW PV generation station on the resort's grounds. Comprising more than 1,000 ASE 300 series modules, the array will produce electricity equivalent to the requirements of about 73 homes a year for at least the next 25 years. Story and photos at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR408.htm>
RWE SCHOTT Solar: <http://www.rweschottsolar.com/>
<http://www.rweschottsolar.com/cms/us/webseite.aspx?navid=219>

8-20-04 Philippines, Solar-powered Irrigation

Under a program called the National Irrigation Administration (NIA)-Winrock Solar PV Irrigation for High-value Crop Production Demonstration Program, NIA will provide solar pumping systems to the Alliance for Mindanao Offgrid Renewable Energy (AMORE) program. WorldWater Philippines will provide technical support to the program. Story at: <http://www.mb.com.ph/BSNS2004082016735.html>

8-20-04 ARISE Solar Energy Projects

ARISE Technologies Corporation has provided an update on several solar energy projects including Cook Homes, Country Lane Builders, a project at a private estate, and a system for St. Lawrence Islands National Park. ARISE continues to see positive results from the EMJ distribution partnership and recent organizational changes. Story at: <http://www2.ccnmatthews.com/scripts/ccn-release.pl?current/0819060n.html>
ARISE Advisor, Steven Strong, is the Keynote Speaker at the Canadian Solar Energy conference: <http://www.stockhouse.com/news/news.asp?tick=APV.WT&newsid=2411449>
ARISE: <http://www.arisetech.com/>

8-20-04 Solar Homes Initiative

For an article opposing the California solar homes initiative, see the opinion piece at Mercury News at: <http://www.mercurynews.com/mld/mercurynews/news/opinion/9449550.htm?1c>

8-20-04 ore on Mitsubishi Electric's PV Expansion

Mitsubishi's press release on expansion of its annual production capacity of PV cells and modules can be found at: <http://global.mitsubishielectric.com/news/index.html>

8-19-04 More on Aleo Module Production

Aleo's new factory will increase total module production capacity to around 60 MW, with the new module line in operation the first quarter of 2005. Story at Photon International: http://www.photon-magazine.com/news/news_2004-08_eu_aleo.htm
Aleo: <http://www.aleo-solar.de/>

8-19-04 PV Vision Report [Christy Herig]

The European Commission's report - a vision for PV technology for 2030 and beyond - prepared by the PV Technology Research Advisory Council (PV TRAC) is available for public consultation. The Vision will be discussed at the conference, "Future Vision for PV" in Brussels 28 September 2004. The report and public consultation form are available at: http://europa.eu.int/comm/research/energy/photovoltaics/vision_report_en.html

8-19-04 New Jersey School District's Solar Roofs

The Toms River Regional Board of Education authorized seeking bids to construct solar panels on the roofs of the district's 20 major buildings. The system is expected to produce 20% of the electricity used by the school district. Story through Solarbuzz at:

<http://www.app.com/app/story/0.21625.1029542.00.html>

8-19-04 European Solar Car Tour

Adiante is a 6,500-km tour through Europe with Nuna 2, a solar-powered car. For more on the tour see: <http://www.adiante2004.com/page.php?page=adiante>

Multi-language entry to website: <http://www.adiante2004.com/index.php?page=adiante>

<http://www.solardaily.com/news/2004/solar-081904-1744-58.html>

<http://www.solardaily.com/news/2004/solar-081904-1745-09.html>

8-19-04 Solar-powered Airship

An Atlanta company is testing a balloon-borne transmitter for broadband and cellular. The solar-powered, helium and nitrogen filled airship receives signals from nearby ground stations and rebroadcasts them over the Atlanta metropolitan area. More on "Sanswire" at:

<http://www.spectrum.ieee.org/WEBONLY/wonews/jul04/0704neve.html>

Highlighted at PV-WEB from the PV-UK - British PV Association: <http://www.pv-uk.org.uk/news/>

8-19-04 Solarstocc and Kyocera Inverters

Coverage of these two 4.5-kW inverters can be found at Photon International:

http://www.photon-magazine.com/products/products_2004-08_solarstocc.htm

Solarstocc: <http://www.solarstocc.com/>

8-19-04 Alternative Energy Needs [Irvin Barash]

In an interview in the July/August H2 Nation, Irvin Barash discusses the issues which have hampered the growth of renewable energy since its beginning as an industry in the late 1980's.

More at: <http://www.h2nation.com/publications/archiveart/article072904-3.cfm>

8-19-04 Western Renewable Energy Generation Information System

The Western Electricity Coordinating Council has agreed to be the institutional home for

WREGIS. Story at: <http://www.energyinfosource.com/aoi/news-details.cfm?id=22372&FLink=>

8-19-04 UniSource on Green Power

UniSource Energy Services offers programs to help customers pay for their own solar energy systems and provide a way to support green-power projects - SunShare and GreenWatts. Story

at: http://biz.yahoo.com/bw/040818/185513_1.html

8-19-04 Northern Ireland PV

Forty-three homes and organizations will benefit from electricity from PV with the help of funding from Northern Ireland Electricity. Story at:

<http://www.nie.co.uk/media/newsstory.asp?idcode=702>

8-19-04 Xcel Renewables RFP

For the XCEL Renewable Energy RFP, visit: http://www.xcelenergy.com/XLWEB/CDA/0.3080.1-1-1_1875_15056_15472-13515-0_0_0-0.00.html

In related news...

8-19-04 Solar Sail

For more on the solar-sail crafts, propelled by "light pressure", see the article at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7377>

8-18-04 World's Largest PV Project

PowerLight Corporation, K&S Consulting Group, and Deutsche Structured Finance are building the world's largest PV project in Bavaria, Germany. Construction is 1/3 complete, with energy production beginning in October and full system operation by December 2004. The 10-MW Bavarian Solarpark uses 57,600 PV panels (type?) and innovative solar tracking technology. Said Howard Wenger, PowerLight's Executive Vice President, "The world's largest photovoltaic project further validates Germany's renewable energy policy. The Bavaria Solarpark also reinforces PowerLight's position in the growing global solar energy market, setting the stage for our company's next phase of growth." Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUPR169.htm> and SolarAccess: <http://www.solaraccess.com/news/story?storyid=7368>

PowerLight: <http://www.powerlight.com/>

8-18-04 Nanosys DARPA Award

Nanosys, Inc. announced that the Defense Advanced Research Projects Agency has awarded a contract to Nanosys and its collaborators to support the development of flexible low-cost solar cells. The award has a potential value of approximately \$14 million over a 5-year period.

Nanosys will manage the contract and will collaborate with research and development partners including the University of California at Berkeley, Battelle Memorial Institute, and SAIC. Story at: http://biz.yahoo.com/prnews/040818/nyw036_1.html

8-18-04 Nanotechnologies Growth Potential [Joe Tillerson]

Lux Capital, a New York-based venture firm that specializes in nanotechnology, says venture capitalists have poured more than \$1 billion into nanotech companies since 1999. For more on this subject, including references to solar cell developments, see the article at:

<http://www.utilipoint.com/issuealert/article.asp?id=2233>

See also the article on "Nanotechnology Fever" at: <http://biz.yahoo.com/iw/040818/071500.html>

8-18-04 More on GEMZ Corp. Agreement with Terra Solar Subsidiary

GEMZ Corp. announced that its wholly-owned subsidiary, International Nanotechnology Corporation has signed a definitive agreement with TSDC-N, a joint venture created by Terra Solar Development Corp. and Dr. S. Kulcsar. INC will acquire substantially all of the nanotechnology assets of TSDC-N and an exclusive license to sell certain PV products being developed by TSDC in the U.S. Previously, GEMZ announced the signing of a letter of intent for this transaction. The INC product uses PV Nanofilms, which combine thin films and nanotechnology so they can also work indoors in most lighting situations. Story at:

http://biz.yahoo.com/bw/040817/175684_1.html

GEMZ: <http://www.gemzcorp.net/>

8-18-04 More on Mt. Eden Solar Electric System

Mt. Eden Vineyards has shifted to a 100% solar power system for the winery's electric needs.

See the story and photo at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7369>

8-18-04 Xcel Energy Renewables RFP

Xcel Energy will add up to 500 MW of renewable energy in Colorado and is currently accepting bids under a recently released Request for Proposal. On August 11, the Colorado Public Utilities

Commission gave Xcel Energy the go-ahead to issue an RFP for up to 500 MW of renewable energy, expected to be primarily wind, under the company's overall resource planning process. Information at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=55652261&ID=cnniw&scategory=Energy%3AAlternative&

See also the Platts Map and articles referenced at:

<http://www.platts.com/Resources/map/maphighlight.html>

8-18-04 Clean Energy Index

The American Stock Exchange(R) (American Stock Exchange® is a registered trademark of American Stock Exchange LLC.) the announced it has begun publishing the WilderHill Clean Energy Index, a new index comprising publicly traded companies that focus on greener and generally renewable sources of energy technologies facilitating cleaner energy. Said Dr. Robert Wilder, managing director of WilderShares, LLC, "As smart energy alternatives including wind, solar, and hydrogen fuel cells have reached billion dollar markets and gain increasing demand, we believe the WilderHill Clean Energy Index is the right product at the right time." More on these developments at: http://biz.yahoo.com/prnews/040818/nyw071_1.html

8-18-04 Japan, Solar Batteries

Tokyo - the domestic solar battery market has been expanding at an annual pace of over 30% in recent years. In 2003, domestic solar battery production totaled 223.7 MW, up 37.2% from a year before, according to a Nihon Keizai Shimbun survey. More on this survey at:

[http://bizns.nikkeibp.co.jp/cgi-](http://bizns.nikkeibp.co.jp/cgi-bin/asia/show/nsh_contents.pl?NSH_BNO=%32%35%38%38%37&NSH_KEY=%73%6f%6c%61%72&NSH_CHTML=%6e%73%68%5f%63%6f%6e%74%65%6e%74%73%2e%68%74%6d%6c)

[bin/asia/show/nsh_contents.pl?NSH_BNO=%32%35%38%38%37&NSH_KEY=%73%6f%6c%61%72&NSH_CHTML=%6e%73%68%5f%63%6f%6e%74%65%6e%74%73%2e%68%74%6d%6c](http://bizns.nikkeibp.co.jp/cgi-bin/asia/show/nsh_contents.pl?NSH_BNO=%32%35%38%38%37&NSH_KEY=%73%6f%6c%61%72&NSH_CHTML=%6e%73%68%5f%63%6f%6e%74%65%6e%74%73%2e%68%74%6d%6c)

8-18-04 Potential Climate Change Effects in California

A study released recently lays out two main scenarios for the state of California. One is business as usual with carbon-dioxide emissions continuing to rise steeply through the rest of the century. The other assumes greater reliance in the near future on energy sources other than fossil fuels. According to the article, the study appears this week in the journal Proceedings of the National Academy of Sciences. Story at:

<http://www.sacbee.com/content/news/story/10407428p-11327125c.html>

8-17-04 Nanosolar \$10.3 Million Contract

Nanosolar, Inc. confirmed it has been awarded an R&D contract by the Defense Advanced Research Projects Agency (DARPA) for \$10.3 million. The award was made through DARPA's Microsystems Technology Office and is dedicated to promoting innovative approaches that enable revolutionary advances in performance, device design, and manufacture of solar electricity cells. Story at: http://biz.yahoo.com/prnews/040816/sfm109_1.html

Nanosolar: <http://www.nanosolar.com/pr2.htm>

Coverage at Solarbuzz: <http://www.solarbuzz.com/News/NewsNATE25.htm>

8-17-04 Mitsubishi Electric PV Production

Mitsubishi Electric Corporation announced it will expand annual production capacity of PV cells and modules at its Nakatsugawa and Kyoto Works from 90 MW to 135 MW by April 2005 in response to a sharp increase in demand in the domestic and overseas markets. The company aims to establish annual capacity of 230 MW by 2006 and is investing in new equipment to meet this goal. Story at: http://biz.yahoo.com/bw/040816/166028_1.html and Solarbuzz:

<http://www.solarbuzz.com/News/NewsASMA39.htm>

Mitsubishi: <http://global.mitsubishielectric.com/>

8-17-04 California, Daggett Solar Plant

Information on the plans for a 5-MW solar electric plant in Daggett, which hit a snag earlier in the year, is provided in an article in today's headlines at the Desert Dispatch through Solarbuzz <http://www.solarbuzz.com/News/Newspage.asp> at: <http://www.desertdispatch.com/> [http://www.desertdispatch.com/cgi-bin/newspro/viewnews.cgi?newsid1092748264,5489,](http://www.desertdispatch.com/cgi-bin/newspro/viewnews.cgi?newsid1092748264,5489)

8-17-04 Evergreen Solar on Fast-growing Technologies List

Evergreen Solar, Inc. announced that the company was named to the New England Technology Fast 50 list. The annual ranking, conducted by Deloitte & Touche LLP and Wilmer Cutler Pickering Hale and Dorr LLP, designates the fastest-growing companies located in Massachusetts, New Hampshire, Vermont, Maine and Rhode Island. Press at: http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=eslr&script=410&layout=-6&item_id=604580

8-17-04 Utility's 1,500th Solar Electric System

San Diego Gas & Electric and others celebrated the addition of the 1,500th local customer providing energy from wind and solar power to the region's energy grid. Under SDG&E's net-metering program, customers installing small renewable energy systems, such as solar arrays and wind turbines, can qualify for special meters that run backwards when the renewable system is supplying electricity into the grid. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7345>

8-17-04 Carmanah Solar LED Marine Light

Carmanah Technologies Inc. announced the release of a GPS-synchronized marine light. Said CEO Art Aylesworth, "Building GPS into our solar-powered LED lighting systems is one of our most significant technological innovations to date, markedly enhancing the potential applications in our core marine market." Story at: http://biz.yahoo.com/prnews/040817/to228_1.html Solar Marine Lights: <http://www.solarmarinelights.com/>

8-17-04 Alternative Energy Gains

For an article on renewable energy stocks - post blackout -- see coverage at: <http://biz.yahoo.com/iw/040816/071382.html>

8-16-04 Solar Cell Startups

For an overview of solar cell startup investments and developments, see the Mercury News article at: <http://www.nanosolar.com/cache/merc081504.htm>

8-16-04 SEIA Leadership

Chris O'Brien, Washington Representative for Sharp Solar USA, assumed the Presidency of the SEIA Board of Directors replacing Chet Farris, CEO of Shell Solar, who resigned from the company. Gordon Handelsman will represent Shell Solar on SEIA's Board. Rhone Resch, Senior Vice President of the Natural Gas Supply Association, has been named as SEIA's Executive Director. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7332> SEIA: <http://www.seia.org/>

8-16-04 Arizona, SunShare Program

Tucson Electric Power has expanded its SunShare solar subsidy program to cover even more of the cost of installing PV systems at a home or office. The expanded incentive was approved August 3 by the Arizona Corporation Commission. "TEP is working with the ACC to ensure that solar power plays a significant role in Arizona's energy future", said Tom Hansen vice president

and technical services advisor for TEP. Story at:

http://biz.yahoo.com/bw/040816/165679_1.html

GreenWatts: <http://www.greenwatts.com/pages/Home.html>

8-16-04 Mount Eden Vineyards 100% Solar Power

Mount Eden Vineyards officially announced the shift to a 100% solar power system. The system installed by Akeena Solar, used to run the winery and the main offices and laboratory residence, is located about 2000 feet up Mount Eden. In addition to Mount Eden, two other local Saratoga vintners - Cooper-Garrod and Savannah Chanelle - are under contract to install solar power systems. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1842373&ResultCategoryType=2,7&NewsPageID=3>

Akeena Solar Electric Power Systems:

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2Eakeena%2Een et&template=2,2>

8-16-04 More on St. Francis Winery Half-MW Solar Project

The 457-kW solar electric system installed by PowerLight consists of solar modules incorporating PV cells from both Sharp and Sanyo, and includes two Xantrex inverters. More on the dedication of the St. Francis Winery & Vineyard solar electric system, one of the largest installations in the wine country and in the nation, can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7344>

8-16-04 California Solar Homes Bill

SB 1652, the revised Solar Homes Bill, failed to clear the California Assembly Appropriations Committee last week. Said Jan McFarland, Director of the California Solar Energy Industries Association, "Time is short but we do have some legislative options that we are working on, however, we must secure a base of support immediately for this bill." More on this story and action plans at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO189.htm>

8-16-04 California Renewables Draft White Paper

The California Energy Commission's draft white paper on "Accelerated Renewable Energy Development", and notices of upcoming meetings and workshops, can be found at:

http://www.energy.ca.gov/2004_policy_update/documents/

8-16-04 More on Colorado Renewables

An update on Colorado's Renewable Energy Initiative 145 that would establish a state renewable energy portfolio standards can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7336>

8-16-04 Polish Green Energy Outlook

Research and Markets has announced the addition of The Polish Green Energy Outlook: Profiting from a Dynamic Renewable Energy Market, to their offering. Information at:

<http://www.researchandmarkets.com/reports/c3890/>

8-16-04 Hydrogen Highway Fueling Station

Stuart Energy and the South Coast Air Quality Management District celebrated the grand opening of the first hydrogen highway network fueling station in Southern California. AQMD's facility is among the first of 13 hydrogen-fueling stations co-funded by AQMD. The electricity produced will be used at AQMD during periods of peak demand. This hydrogen power will supplement AQMD's solar array, which has long been used to help meet the power needs of the

building. Story at: http://biz.yahoo.com/bw/040813/135527_1.html
Stuart Energy: http://www.stuartenergy.com/main_our_company.html

8-16-04 Stabilizing Global Greenhouse

Coverage of the Princeton study on stabilizing the global greenhouse, published in the journal of Science, can be found at: <http://www.csmonitor.com/2004/0813/p03s02-ussc.html>

8-16-04 SPIRE Corporation 2nd Quarter Results [Sheryl Einarson]

Said Roger G. Little, President and CEO of Spire, "I am pleased to report that revenues were 13% greater than those of the second quarter of 2003". Increases were partially offset by declines in Solar Equipment and Solar Systems segments primarily resulting from the timing and demand of equipment and systems orders. Information at:

http://biz.yahoo.com/bw/040813/135314_1.html

8-16-04 Solar Car Crash

Additional information on the tragic circumstances of the solar car crash can be found at the Canadian Association for Renewable Energies at: <http://www.renewables.ca/main/main.php> and other sites: <http://www.news.utoronto.ca/bin6/040812-349.asp>

http://www.cbc.ca/story/canada/national/2004/08/12/solar_crash040812.html

<http://slashdot.org/article.pl?sid=04/08/13/1416254>

<http://www.canoe.ca/NewsStand/LondonFreePress/News/2004/08/13/580142.html>

<http://uwstudent.org/article/2004/08/13/092317457>

<http://www.canada.com/national/nationalpost/news/toronto/story.html?id=78ea518f-6fe5-4a68-8411-ccb794824407>

8-13-04 Solar Car Crash - Our Hearts Go Out to All

<http://www.solaraccess.com/news/story?storyid=7340>

<http://www.centreforenergy.com/displayNewsArticle.asp?From=NewsSearch&Search=&ResultCategoryType=2,7&NewsPageID=5&NewsID=1839608&template=2,2&currPage=1>

8-13-04 SBP Conformity Certificate

BP has received the first conformity assessment certificate from the International Electrotechnical Commission's Worldwide System for Conformity Testing and Certification of Electrical Equipment (IECEE) Full Certification Scheme (CB-FCS) for its PV modules manufactured in India, China, Spain, and Australia. More on this IECEE CB scheme at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPT84.htm> and SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7329>

BP Solar: <http://www.bpsolar.com/>

8-13-04 Western Area Power Administration Renewables RFP

Through this RFP, Western is seeking sources of renewable energy generated from solar, geothermal, biomass, or wind technologies to supply up to 7.5% of electric energy requirements of the identified "NNSA/Air Force Facilities" (Sandia National Laboratories-NM, Kirtland Air Force Base, Los Alamos National Laboratory). More information on these facilities and a copy of the RFP at: <http://www.wapa.gov/crsp/RFP.pdf>

8-13-04 RWE SCHOTT Solar in Greece

RWE SCHOTT Solar has begun operation of Greece's largest rooftop solar energy unit in Athens. Said Dr. Winfried Hoffmann, Spokesperson for the Board at RWE SCHOTT Solar and President of the European PV Industry Association, "With this unit on the roof of the German School in Athens we aim to encourage the Greek government in introducing an incentive scheme along the lines of the German Feed In Tariff". Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1841342&ResultCategoryType=2.7&NewsPageID=3>

RWE SCHOTT Solar:

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2Erweschottsolarr%2Ecom&template=2.2>

8-13-04 More on ECD Strategic Directions

Among the core ventures the company will focus on growing is United Solar Ovonic. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1840919&ResultCategoryType=2.7&NewsPageID=3>

ECD: http://www.ovonic.com/news_events/5_0_news_events.htm

8-13-04 Renewable Electric Activities in the States [Blair Swezey]

The Summer 2004 issue of State Renewable Energy News, a compilation of renewable electricity activities in the States, prepared for the NARUC Renewable and Distributed Resources Subcommittee, is now on-line at <http://www.nrel.gov/analysis/sren/sren38.html>

8-13-04 National Green Power Marketing Conference [Blair Swezey]

The Ninth National Green Power Marketing Conference will be held 4-6 October 2004 in Albany, New York. Visit the Website at:

<http://www.eere.energy.gov/greenpower/conference/ninth.html?page=0>

8-13-04 Renewable Energy In Latin America

Platts 2nd Annual Renewable Energy in Latin America conference will be 20-21 September in Miami, Florida. Website at: <http://www.platts.com/Events/PB477/index.html>

8-13-04 India, Solar Water Pumping

Forty districts have been chosen where 400 solar irrigation pumps would be installed in villages facing acute shortages of irrigation and drinking water. Story through Solarbuzz

<http://www.solarbuzz.com/index.asp> at:

<http://timesofindia.indiatimes.com/articleshow/811828.cms>

8-13-04 Update on the California Solar Homes Initiative

A legislative committee defeated the \$1 billion proposal, partly because Governor Schwarzenegger has yet to sign on to the proposal advanced by the California EPA. Story at:

<http://www.marinij.com/Stories/0,1413,234~26642~2332590,00.html>

8-13-04 Solar Entrepreneur [Highlighted in the gvpe newsletter]

The first issue of "Solar Entrepreneur" can be downloaded from the website at:

<http://www.freeenergyfoundation.org/solarentrepreneur.html>

GVEP: <http://www.gvpe.org/>

8-12-04 SolarWorld Group Financials

The SolarWorld Group's positive financial results, heading toward a record, are highlighted at an article in Solarbuzz at: <http://www.solarbuzz.com/News/NewsEUUCO138.htm>

SolarWorld AG: <http://www.solarworld.de/>

8-12-04 Global Nanotechnology Market

GEMZ Corp. announced that Business Communications Company, Inc. has released an independent report that estimates total global demand for nanoscale materials, tools, and devices at \$7.6 billion in 2003, growing to \$28.7 billion in 2008. More on this report, and the wholly-owned subsidiary of GEMZ, International Nanotechnology Corporation's application of

nanotechnology can be found at: http://biz.yahoo.com/bw/040811/115706_1.html
<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1838414&ResultCategoryType=2.7&NewsPageID=3>
GEMZ -International Nanotechnology Corp.: <http://www.gemzcorp.net/>
BCC: <http://www.bccresearch.com/advmat/GB290.html>

8-12-04 Energy Conversion Devices Commercial Strategies

Energy Conversion Devices announced that its Board of Directors unanimously approved management's business restructuring plan to take advantage of a recent battery settlement agreement and the increasing market interest in solar energy systems and hybrid electric vehicles. Story at: http://biz.yahoo.com/prnews/040812/deth006_1.html
ECD Ovonic: <http://www.ovonic.com/>
http://www.ovonic.com/news_events/5_2_press_releases/20040812.htm

8-12-04 More on "Leipziger Land" Solar Electric Plant

The 5-MW solar electric plant is a joint venture between Shell Solar GmbH and Geosol of Berlin, and will include 33,500 Shell SQ-series modules. Press at: http://www.german-renewable-energy.com/www/main.php?tplid=6&aktuell_id=37&PHPSESSID=383a0ccb1a476a093c19b66f3c416f5e

8-12-04 Stuart Energy Renewable Hydrogen Roadshow

The Renewable Hydrogen Roadshow continues at California's Monterey County Fair 17-22 August. The SHOW features the Renewable Stuart Energy Station (SES), a water electrolysis-based hydrogen station using solar electricity, and Solar Integrated Technologies' solar canopy that's powering presentations on the Eco-Dome stage as well as the SES system. Story at: <http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1835631&ResultCategoryType=2.7&NewsPageID=3> and
SolarAccess: <http://www.solaraccess.com/news/story?storyid=7325>
Stuart Energy: <http://www.stuartenergy.com/>
Monterey County Fair:
<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2Emontereycountyfair%2Ecom&template=2.2>

8-12-04 New at Evergreen Solar

Evergreen Solar announced that Dr. Terry Bailey has joined the Company as Senior Vice President, Marketing and Sales, responsible for Evergreen Solar's sales, marketing, strategic planning, and business development activities. Story at: http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=eslr&script=410&layout=-6&item_id=603611

8-12-04 Fastest-growing Technology Companies

New England Technology Fast 50 winners were announced, and include Evergreen Solar. Story at: http://biz.yahoo.com/prnews/040811/new048_1.html

8-12-04 Indium [Ken Zweibel]

For those with a subscription to the Wall Street Journal, the newswires are referencing an article 8-9-04: "Ever Heard of Indium? Screen Makers Have, And Some Are Worried". WSJ:
<http://online.wsj.com/public/us>

8-12-04 Colorado Renewables Campaign

Information on the campaign for renewables in Colorado can be found at the Website at: <http://www.RenewableEnergyYES.com/>

In other news, see the press at the Colorado Daily:

<http://www.coloradodaily.com/articles/2004/08/10/news/news02.txt>

8-12-04 More on California Solar Homes Initiative [Don Osborn]

The bill that includes the California EPA's solar homes initiative could come up any time now in an Assembly committee. More on the progress of this initiative at: <http://sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/2004/08/11/BUGFS85P3823.DTL>

8-12-04 Inverter Partnership

Sustainable Energy Technologies has entered into a Bonded Inventory Management program with Future Electronics to guarantee the supply of critical power electronics components for production of the company's fuel cell and solar inverters. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7320>

Sustainable Energy: <http://www.sustainableenergy.com/SET-home/index.html>

8-12-04 SMA Manufacturing

SMA Regelsysteme GmbH has opened two new manufacturing facilities to satisfy the needs of the global solar inverter market. News at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7226>

8-11-04 Terrestrial Triple-junction Array

A kilowatt-scale terrestrial solar cell array employing III-V-based triple-junction technology has been deployed at the summit of Mount Haleakala, Maui, Hawaii. The concentrator array was developed by a team comprising the NASA Glenn Research Center, Boeing, and Entech. The array uses 240 Spectrolab solar cells. Story at:

<http://compoundsemiconductor.net/articles/magazine/10/8/5/1>

8-11-04 Fortune on Oil Dependency [Ken Zweibel]

In a special cover story, FORTUNE looks at a number of ways, from government initiatives to new technologies, for America to begin to free itself from oil dependency. The plan includes improving fuel economy, more spending on alternative fuels, redoubled commitment to efficiency, and "getting serious about solar and wind". For more on this story see:

http://biz.yahoo.com/bw/040811/115122_1.html

Fortune: <http://www.fortune.com/fortune/>

8-11-04 More on RWE Schott Manufacturing

Additional coverage of RWE Schott Solar's decision to build a new solar module production plant in Valasske Mezirici, the Czech Republic, in 2004, creating nearly 300 new jobs at the plant by 2007, can be found at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=55348276&ID=cnniw&scategory=Energy%3AAlternative&

8-11-04 USPIRG Report on Electric System

"Toward A Consumer-oriented Electric System: Assuring Affordability, Reliability, Accountability & Balance After a Decade of Restructuring" urges policy-makers to restrict deregulation of the power sector and to impose mandatory reliability standards for electric grid operators and increased energy efficiency partly through the development of renewable energy sources. Story at ReFocus:

http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=79851931&accnum=1&topics=

8-11-04 U.K. Renewables Policy Review

The British government has launched a review of its policy to require electricity suppliers to source 10% of their electricity from renewables by 2010. Story at ReFocus:
http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=87951296&accnum=1&topics=

8-11-04 U.S. Energy Secretary on Climate Change Policy

The Bush Administration's approach to climate change is presented in an article from the US DOE, captured at:
<http://www.centreforenergy.com/newsSearch.asp?Search=&NewsPageID=5&template=2.2¤tPage=1&ResultCategoryType=2.7>

8-11-04 California, Solar Homes

A California Environmental Protection Agency initiative to include solar on half of new homes by 2020 was added to a bill that has cleared one chamber of the Legislature. Story at:
http://www.dailycamera.com/bdc/state_news/article/0,1713,BDC_2419_3102139,00.html and
<http://www.dailynews.com/Stories/0,1413,200~20954~2326567,00.html> and elsewhere.

8-11-04 Solectria Inverter

Solectria Corporation has launched a 13.2-kW PV inverter for grid-connected commercial 3-phase PV systems for the North American market. Story at Solarbuzz:
<http://www.solarbuzz.com/News/NewsNAPT82.htm>
Solectria: <http://www.solectria.com/>

8-11-04 Solar Car

Solar-powered car, Nuna 2, is being driven through Sweden and Norway. It begins its journey on 14 August in Oslo and completes it on 22 August in Andenas. Story and photos at:
http://www.esa.int/export/esaCP/SEM1G9W4QWD_index_0.html

Kyocera announced it will begin large-scale assembly of PV modules this fall at its maquiladora facility in Tijuana, Mexico, with plans to establish a regional office in San Diego for solar system engineering and marketing. The planned production capacity is 35 MW per year, and the facility will eventually produce all of the PV modules that Kyocera sells in the Americas. Story at:
http://biz.yahoo.com/bw/040810/105311_1.html and Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAMA44.htm>

Kyocera: <http://www.kyocerasolar.com/>

Also, information on the new 15.7% multicrystal silicon module is now on the Kyocera website at: <http://global.kyocera.com/news/2004/0803.html>

8-10-04 Taiwan Renewables

Taiwan Power Co. will purchase up to 600 MW of renewable power from private investors each month at a guaranteed price of 2.0 twd per kWh following a cabinet order. Story through Energy Central (subscription) AFX-ASIA <http://www.energycentral.com/>
Also at: <http://www.taipeitimes.com/News/biz/archives/2004/08/10/2003198203>

8-10-04 Kerry-Edwards on Energy

Coverage of the Kerry-Edwards energy platform, which includes establishing a national goal of producing 20% of the nation's electricity from renewable sources such as wind, solar, geothermal and biomass by 2020, can be found at SolarAccess:
<http://www.solaraccess.com/news/story?storyid=7303>

8-10-04 St. Francis Winery and Vineyards Solar Electric System [Susan deVico]

The St. Francis Winery's new solar array completed in June is being dedicated today. Said Christopher W. Silva, President and CEO of St. Francis Winery, "For three decades, St. Francis Winery has achieved great success amidst the natural wonder of Sonoma County. By harnessing the sun's energy to generate electricity, we're doing our part to protect the beauty of this magnificent region." The 457-kW PowerLight solar electric system consists of solar modules incorporating PV cells from both Sharp and SANYO. Case study at:

<http://www.powerlight.com/case-studies/wineries/stfrancis.shtml> and story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR403.htm>

8-10-04 Rodney Strong Vineyards Green Certificate

Rodney Strong Vineyards has earned a Sonoma Green Business Certificate of Compliance. The Certificate, along with recent installation of a solar electric system at the winery's 100,000 square foot barrelhouse, illustrates Rodney Strong's continuing commitment to the environment.

Story at: http://biz.yahoo.com/prnews/040810/sftu061_1.html

PowerLight's Solar Case Study at: http://www.powerlight.com/case-studies/wineries/rodney_strong.shtml

8-10-04 Solar-powered Website

The Portland Oregon Visitors Association is scheduled to become the nation's first convention and visitors bureau to launch a website 100% powered by solar energy. The Visitors Association signed on with Solar Data Centers, Inc., a company using solar energy to run every aspect of its clients' Internet operations. More at: http://biz.yahoo.com/bw/040809/95973_1.html
Solar Data Centers: <http://www.solardatacenters.com/>

8-10-04 California, Chico Solar Electric System

PowerLight's case study of the City of Chico solar electric carport system, covering an area of 940 square feet with 480 solar electric tiles, can be found at: <http://www.powerlight.com/case-studies/state/chico.shtml>

http://www.powerlight.com/products/covered_parking.shtml

See also, the article through Solarbuzz at:

<http://www.chicoer.com/Stories/0,1413,135%7E25088%7E2321855.00.html>

8-10-04 California, San Jose Capitol Honda Solar Electric

The Capitol Expressway Auto Mall dealership recently covered its entire roof with more than 900 solar panels, making Capital Honda the first car dealership in PG&E's service area to receive a rebate through the Self-Generation Incentive Program. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR402.htm>

In related news...

8-10-04 Solar Sail Systems

NASA's Solar Sail Propulsion Team and partners have successfully deployed two 10-meter solar sails in a vacuum environment - a critical milestone. Solar sail propulsion uses the Sun's energy to travel through space by using technology that bounces a stream of photons off giant, reflective sails made of lightweight material 40 to 100 times thinner than a piece of writing paper. Story at SpaceDaily: <http://www.spacedaily.com/news/solarsails-04a.html>

8-9-04 Australia's PV Roadmap

Australia's PV Roadmap sets a "Sunrise Vision" for the future of solar power in Australia, specifying essential targets to establish sun power as a mainstream energy source. Story and link to the Roadmap at Solarbuzz: <http://www.solarbuzz.com/News/NewsASGO61.htm>

8-9-04 Australia, Adelaide's Solar City Role

Doubts have been raised about Adelaide's role as the centerpiece of a \$75 million solar cities trial to be overseen by the Federal Government. Story through Solarbuzz

<http://www.solarbuzz.com/index.asp> at:

http://www.theadvertiser.news.com.au/common/story_page/0,5936,10386017%5E2682,00.html

8-9-04 INC-GEMZ Developments

International Nanotechnology Corporation, the wholly-owned subsidiary of GEMZ Corp Inc., reports that a recent MIT Technology Review cover story relates to INC's initial focus to develop a solar-powered solution for powering cellphones and laptops. Their products use PV Nanofilms, which combine thin PV films and nanotechnology so they can also work indoors in most lighting situations. Moshe Gluzman, a PV Engineer and entrepreneur, has been named President of INC. Dr. Zoltan Kiss will become Chief Technical Advisor of INC. Products are expected to be available for sampling the 4th quarter of 2004. Story at:

<http://www.tmcnet.com/usubmit/2004/Aug/1063944.htm>

<http://www.technologyreview.com/articles/04/07/fairley0704.asp>

8-9-04 Arizona, Renewable Electricity Standard

According to a new study by the Union of Concerned Scientists, benefits to Arizona such as the creation of 3,900 jobs, \$1.6 billion in new capital investment, and \$1.6 billion in savings on consumer energy bills, can be achieved by enacting a national renewable electricity standard of 20% by 2020. "Arizona should be a national leader on renewable energy", said Craig Cox, Executive Director of the Western Business Coalition for New Energy Technologies.

<http://www.cleandedge.com/news-listing.php>

http://www.ucsus.org/news/press_release.cfm?newsID=407

8-9-04 World PV Market 1975-2003 and PV Technology, Performance and Cost 1975-2010

Information on Paul Maycock's World PV Market: 1975-2003, and PV Technology, Performance and Cost: 1975-2010, reports can be found at:

<http://www.solaraccess.com/marketplace/catalog/showitem.jsp?itemid=30>

<http://www.solaraccess.com/marketplace/catalog/showitem.jsp?itemid=27>

8-9-04 Building Sustainable Bridges [Don Osborn]

There is an overriding need for sustainable energy policies, implemented in ways that are themselves sustainable. Per RE Insider, to accelerate commercialization, we must create growing, sustained markets capable of stimulating production capacity increases and aggressive price reductions. More on "Sustained, Orderly Development and Commercialization" at SolarAccess' RE Insider's article on "Building Sustainable Policy Bridges" at:

<http://www.solaraccess.com/news/story?storyid=7246>.

8-9-04 California Solar Lobby Day

Parties involved in formulating a solar energy plan will gather for Solar Lobby Day on 10 August at the State Capital from 10 to 2. The event includes Schwarzenegger Administration Officials, CALSEIA representatives, and displays from CALSEIA member companies. Story at

SolarAccess: <http://www.solaraccess.com/news/story?storyid=7296>

8-6-04 Phonix SonnenStrom Listing

Chairman of the Board of Phonix SonnenStrom AG, Dr. Andreas Hanel, announced plans by the company to seek listing on the stock exchange. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEU0137.htm>

Phonix SonnenStrom: <http://www.sonnenstromag.de/>

8-6-04 Solar PV Shelters

Solar Integrated Technologies secured a contract from the Air Force Research Laboratory at Tyndall Air Force Base, Florida to develop and install a PV powered generating system into a Small Shelter System (SSS). "SIT's integration of thin-film solar cell panels with SSS is a part of our energy dynamics study of solar energy under various daylight conditions and weather variables", AFRL engineers said. SIT was chosen because of their proprietary production capability to integrate PV cells into flexible industrial fabrics. More on SIT, as well as Iowa Thin Film Technologies, at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7289>
Solar Integrated Technologies: <http://www.solarintegrated.com/>
Iowa Thin Film Technologies: <http://www.iowathinfilm.com/>

8-6-04 Builders' Show

SEIA has reserved space at the 2005 International Builders' Show in Orlando, Florida, 13-16 January. Those interested in exhibiting can contact Emily Brown at SEIA, <mailto:ebrown@seia.org>.

For more information on the show, visit:

http://www.nahb.org/meeting_details.aspx?meetingID=1477&ionID=121 specifically,
<http://www.buildersshow.com/>

8-6-04 More on Maldives Renewable Energy

For more on the renewable energy workshop for the Maldives, see SolarAccess at: <http://www.solaraccess.com/news/story?storyid=7288>. Consisting of 1,190 coral islands grouped into 26 atolls in the Indian Ocean, the Maldives are well poised to take advantage of renewable energy systems which prove themselves particularly well-suited to powering remote locations.

8-6-04 More on the GT Solar Partnership

More on the \$14-million contract for GT Solar to supply Tatung subsidiary Green Energy Technology with a 25-MW turnkey multi-crystal silicon solar wafer production line, including photos, can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7276>
GT Solar Technologies: <http://www.solaraccess.com/marketplace/compdetail?compid=1090>
Tatung: <http://www.tatung.com/>

8-6-04 Solar Cars

The North American tour is far from the first time the Midnight Sun VII solar car has been on the road. Team members take the car to local racing events, science fairs, and community gatherings to get the word out about solar power. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7283>

Midnight Sun North American Tour: <http://www.midsun.uwaterloo.ca/tour/>

American Solar Challenge: <http://www.americansolarchallenge.org/index.html>

8-6-04 Connecticut Clean Energy Fund [IREC Newsletter, Jane Pulaski]

The Connecticut Clean Energy Fund is accepting proposals from PV contractors wanting to take part in a program that will rebate \$1.8 million in charges to CT residents who have solar PV systems installed in their homes. This and more news at the Interstate Renewable Energy Council Newsletter: <http://irecusa.org/>
CCEF Website: <http://www.ctcleanenergy.com/>

8-6-04 More on U.S. Green Power

Additional coverage of the Center for Resource Solutions preliminary verification results for the Green-e certified renewable electricity sales in 2003 can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7280>

Green-e: <http://www.green-e.org/>

Center for Resource Solutions: <http://www.resource-solutions.org/>

8-6-04 More on Nanosys

Additional coverage of the IPO withdrawn by Nanosys is at:

<http://money.cnn.com/2004/08/05/technology/techinvestor/lamonica/index.htm>

http://www.fool.com/News/mft/2004/mft04080520.htm?source=eptyhoInk303100&logvisit=y&np_u=y

8-6-04 More on Kyocera Multi-crystal Silicon Solar Module

Additional coverage of Kyocera's new module, from the JCN Newswire can be found at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1812858&ResultCategoryType=2.7&NewsPageID=3>

8-5-04 GT Solar & Green Energy Technology Contract

GT Solar Technologies has received an order to install a turnkey multi-crystal silicon wafer manufacturing line at Green Energy Technology Inc., a new subsidiary of Tatung Company in Taiwan. Stories at Solarbuzz: <http://www.solarbuzz.com/News/NewsASMA38.htm> and

SolarAccess: <http://www.solaraccess.com/news/story?storyid=7273>

GT Solar: <http://www.gtsolar.com/>

Tatung: <http://www.tatung.com/>

8-5-04 Nanosys Public Offering (Withdrawn)

Nanosys Inc. has withdrawn its anticipated initial public offering. Story at:

http://biz.yahoo.com/rb/040804/tech_nanosys_1.html

http://news.com.com/Nanosys+yanks+IPO/2110-1001_3-5297213.html

Nanosys: <http://www.nanosysinc.com/>

8-5-04 XsunX Solar Electric Vision Glass

XsunX, Inc. announced that recent advancements in its research and development efforts have produced consistent results on track with the Company's plans. Key milestones to date have been the successful development of large-area manufacturing processes for all layers of semi-transparent solar cell design. In June, XsunX announced a cooperative venture with MVSystems, Inc., with Arun Madan as the Company's new Chief Technology Officer. Story at:

http://www.primezone.com/newsroom/news_releases.mhtml?d=61931

XsunX: <http://www.XsunX.com/>

8-5-04 Carmanah Aviation Lights

Carmanah Technologies Corporation announced that the company has been contracted by the U.S. Marine Corps to supply solar-powered LED aviation lights for two air bases in the Middle East, worth about Cdn \$402,000 and Cdn \$710,000. Press at:

<http://www2.ccnmatthews.com/scripts/ccn-release.pl?current/0804072n.html>

Carmanah: <http://www.carmanah.com/>

8-5-04 Xantrex Inverter

Xantrex Technology Inc. announced it has received an order for 2 units, and a letter of intent for 28 units, of a new 100-kW grid-tie inverter called the GT100E designed for the European industrial solar market. Press at: http://biz.yahoo.com/prnews/040804/to034_1.html

Xantrex: <http://www.xantrex.com/>

8-5-04 U.S. Green-e Programs

Sale of green power certified under the U.S. Green-e program increased 86% last year over 2002. More on preliminary verification results from the Center for Resource Solutions in the story at ReFocus:

http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=57848757&accnum=1&topics=
Center for Resource Solutions: <http://www.resource-solutions.org/>

8-5-04 USDA Renewables Program

Environment & Energy Daily (subscription) reports that applications for the farm bill's renewable energy and energy conservation grants program surged in this second year. USDA has received about \$36.6 million in grant applications for the \$23 million program for 2004.

[Environment & Energy Daily, pubs@eenews.net]

8-5-04 Israel PV Subsidies

The Electricity Authority in Israel approved a state subsidy for electricity from wind and PV. See News-in-Brief at ReFocus 8-4-04:

http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=22765750&accnum=1&topics=

8-5-04 PV Tracker

A solar tracking device for PV panels from Bailey Innovations received funding of Aus\$52,000 from the Australian government under the latest round of Commercializing Emerging Technology grants. See News-in-Brief at ReFocus 8-4-04:

http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=22765750&accnum=1&topics=
ATP Innovations: <http://www.atp-innovations.com.au/network/news/profile.asp?DocumentID=1790>

8-5-04 Konarka's New Board Member

Konarka Technologies announced that distinguished scientist and venture capitalist Dr. Arno Penzias is joining its Board of Directors and Scientific Advisory Council. Press at:

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040804005146&newsLang=en

Konarka: <http://www.konarka.com/>

8-5-04 In Other Konarka News [Hilary Ives]

Executive Vice President and Chief Marketing Officer Daniel McGahn will speak at the Office of Naval Research's 2004 Naval-Industry R&D Partnership Conference, showcasing emerging technology. The panel will be moderated by Robert Buder, editor-in-chief of MIT's Technology Review. Press at: http://www.konarkatech.com/news_events-A-aug-3.php

8-4-04 Sunshine Energy Program

Florida Power & Light Company announced that nearly 6,000 FLP customers are now enrolled in its new Sunshine Energy(R) (Sunshine Energy® is a registered trademark of Florida Power & Light Company) program, with the program being the fastest growing green pricing program - soon to be the largest - in the Southeast. More about the program at:

http://biz.yahoo.com/bw/040803/35700_1.html

FLP Sunshine Energy: http://www.fpl.com/home/services/contents/sunshine_energy.shtml

8-4-04 Philippines Renewables

The Philippine government and the Asian Development Bank signed a \$1.5 million grant to bring renewable energy to low-income villages in the Central Philippines. Eight renewable energy systems will be set up using hydro, solar, biomass, or wind.

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1800809&ResultCategoryType=2,7&NewsPageID=3>

8-4-04 California, Public Support for Solar

Two new public opinion surveys conducted in July show California voters overwhelmingly support the expanded use of solar energy to power the state's homes and businesses. More on these survey results at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7264>

8-4-04 California, "Solarnator" Ad

Environment California Research & Policy Center ran a political ad in the Los Angeles Times calling on the governor to keep his promise to include solar power in half of all new homes built in the state. More on this campaign at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7261>

Environment California: <http://www.environmentcalifornia.org/>

See also Vote Solar Ad in Sacramento Bee: http://www.votesolar.org/votesolar_ad_sacbee.pdf

LA Times Article (through Solar E-Clips):

<http://www.californiasolarcenter.org/solareclips/2004.08/20040810-1.html>

8-4-04 California, Report on Renewable Energy Program [Bob Aldrich]

The California Energy Commission's 2nd Quarter report to the Legislature on the Renewable Energy Program is available at:

<http://www.energy.ca.gov/renewables/documents/legislature.html>

8-4-04 California, Million Solar Homes Initiative

The California Environmental Protection Agency's draft "Million Solar Homes Initiative" proposes that the state give rebates to homebuilders who install solar panels on new homes and incentives for installing panels on existing homes. The program would be paid for with a new monthly utility bill surcharge of about 25-30 cents per household. Said Drew Bohan, EPA Undersecretary, "Each month, the homeowner would save more money in reduced electricity charges than the homeowner would have to pay on the solar mortgage". Story through Solarbuzz

<http://www.solarbuzz.com/index.asp> at: <http://sfgate.com/cgi-bin/article.cgi?f=/news/archive/2004/08/03/state1922EDT7590.DTL> and at Solar Access:

<http://www.solaraccess.com/news/story?storyid=7265> and LA Times article (above).

8-4-04 eNeo Labs Connected Home

Nearly every aspect of the eNeo Labs Connected Home from lights and blinds to security cameras is networked and automated. The "nerve center" of the eNeo Connected Home is the IPbox residential gateway based on OSGi technology. A home on tour at the OSGi World Congress - which demonstrates this technology - is built using environmentally friendly and sustainable construction materials, and uses solar energy. More at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1798238&ResultCategoryType=2,7&NewsPageID=3>

OSGi Alliance 2004 World Congress: <http://www.osgiworldcongress.com/>

8-4-04 World Renewable Energy Congress and Expo [Kevin Eber, EERE Network News]

The Web site for the 8th World Renewable Energy Congress and Expo has been updated with a detailed preliminary program and an expanded list of plenary speakers. The Congress will be held 29 August through 3 September in Denver, Colorado. For more information see EERE Network News at:

<http://www.eere.energy.gov/news/archive.cfm/pubDate=%7Bd%20%272004%2D08%2D04%27%7D>

Congress site: <http://www.nrel.gov/wrec/>

8-4-04 More on Kyocera's New Module

Kyocera Corp will start mass production of their new 15.7% multicrystalline solar modules in April 2005. Annual production is estimated at 120 MW.

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=54948197&ID=cnniw&scategory=Energy%3AAlternative&

8-3-04 Kyocera Module

As reported by Kyodo News, Kyocera Corp. said Tuesday it has developed a polycrystalline silicon solar cell panel capable of converting 15.7 percent of sunrays into electricity, the highest conversion rate ever achieved by such a panel. News at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1797074&ResultCategoryType=2.7&NewsPageID=3>

See coverage at Solarbuzz: <http://www.solarbuzz.com/News/NewsASPT27.htm>

8-3-04 Solar-powered Water Distillation in Greece

Universal Communication Systems, Inc., subsidiary Millennium Electric T.O.U., Ltd announced that the company has completed the first solar-powered water distillation system in Greece. The system can distill up to 10,000 liters per day of any waste/sea water. Story at:

<http://biz.yahoo.com/iw/040803/070822.html>

Universal Communication Systems: <http://www.ucsy.com/>

Millennium: <http://www.millennium-electric-inc.com/>

8-3-04 Greenhouse - Renewables Report

A new report from the Harvard Medical School titled "Inside the Greenhouse: The Impacts of CO₂ & Climate Change on Public Health in the Inner City" shows how renewable energy sources can impact public health by slowing climate change. The report recommends supporting public policies that promote the use of renewable energy resources to meet the challenge of global climate change. Story at Solarbuzz:

<http://www.solaraccess.com/news/story?storyid=7250>

8-3-04 PV in Buildings

A copy of the keynote paper on Overview of PV in Buildings Integration, State of the Art and Perspectives from the 19th EU-PV Conference in June 2004 - praised by the technical programme chairman as "best overview on BIPV ever!" - can be downloaded from:

<http://www.tnc.ch/papers/download.php>

TNC: <http://www.tnc.ch/home/>

8-3-04 Shell Products

Shell PowerMax(tm) (PowerMax™ is a trademark of Shell Solar) Plus products for off-grid will be available for shipping beginning early 2005 and are designed specifically to replace some of the key SM products. For more information see:

http://www.shell.com/home/Framework?siteId=shellsolar&FC2=/shellsolar/html/iwgen/news_and_library/press_releases/2004/zzz_lhn.html&FC3=shellsolar/html/iwgen/news_and_library/press_releases/2004/powermax_offgrid_0208.html

8-3-04 Emcore Award

Commerce Business Daily lists a \$564,000 award to Emcore Corporation for GaInP/GaAs/Ge Solar Cells and Laydown on Government Furnished Substrate, June 2004. <http://www.cbd-net.com/index.php/search/show/617151>

Emcore: <http://www.emcore.com/about/index.php>

<http://www.emcore.com/product/photovoltaic.php>

8-3-04 California Rooftop Solar [Adam Browning]

Governor Schwarzenegger will make a decision very shortly on a plan to promote rooftop solar in California, and The Vote Solar Initiative is calling attention to the decision point. For more information, see: <http://www.votesolar.com/action2.html>

<http://www.votesolar.com/>

Schwarzenegger's Environmental Action Plans (see solar):

http://www.schwarzenegger.com/en/news/uptotheminute/news_upto_en_env_action.asp?sec=news&subsec=uptotheminute

http://www.schwarzenegger.com/en/life/hiswords/words_en_stateOstate.asp?sec=life&subsec=hiswords

8-3-04 Evergreen Solar Results

Second quarter results for Evergreen Solar can be found at: http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=ESLR&script=410&layout=-6&item_id=599789

8-2-04 Germany, PV System Connected to Grid

A new 736-kW PV system has been connected to the grid at Waltenhofen in the district of Furstenfeldbruck. The system comprises 4,600 multicrystalline silicon solar modules from BP Solar, with an exposed area of approximately 6,000 square meters. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUPR166.htm>

BP Solar: <http://www.bpsolar.com/>

8-2-04 Saudi Arabia Solar Cells

A solar cell (type?) production factory has opened in Jeddah, with a production capacity of about one million cells annually. Said Ebrahim Mohammad Afandi, owner of the factory, the new factory can serve as a nucleus for the future establishment of a share company that could spread sheets of solar cells over vast areas of the desert to boost production to meet the growing need for power. Story through Solarbuzz at:

<http://www.gulf-news.com/articles/business2.asp?articleID=127741> and

<http://www.ameinfo.com/news/Detailed/43366.html>

8-2-04 Germany, Solar-Fabrik Sales Up

German solar module manufacturer, Solar-Fabrik AG reported that sales for the first 6 months of 2004 are up 115% compared to the same period last year. The company has expanded production capacity and plans to expand further to reach a capacity of 40 MW in 2005. Also, a 33-kW PV system was installed on the roof of the German school in Athens with Greek and German partners including RWE SCHOTT Solar. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUCO133.htm>

Solar-Fabrik: <http://www.solar-fabrik.de/> <http://www.solar-fabrik.de/eng/1.htm>

8-2-04 Germany, S.A.G. Solarstrom Business

S.A.G. Solarstrom AG is securing modules for 2005 and 2006 as it anticipates continued strong growth in the German PV market. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUCO134.htm>

S.A.G. Solarstrom: <http://www.solarstromag.net/>

8-2-04 German Solar Industry Targets

The German solar energy industry is targeting an increase in installed capacity across the country of 300 MW in 2004, compared with an initial forecast of 250 MW. Story at:

http://www.nasdaq.com/asp/quotes_news.asp?cpath=20040802%5CACQDJON200408020410DOWJONESDJONLINE000149.htm&selected=9999&StoryTargetFrame=top&mkt=WORLD&c

[hk=unchecked&lang=&link=&headlinereturnpage=http://www.international.nasdaq.com/asp/gmWorldNews.asp&headl](http://www.international.nasdaq.com/asp/gmWorldNews.asp&headl)

8-2-04 PV Activities In Japan [RTS Corporation]

The July issue of "PV Activities in Japan" (subscription) covers major recent PV events (such as the 19th European Photovoltaic Solar Energy Conference and Exhibition), as well as the latest in government, local governments, suppliers, and users activities. For example, this issue reports that Cypress Semiconductor (Japan) K.K. will sell PV modules manufactured by SunPower Corporation, in Japan. [Source: RTS Corporation, Tokyo, PVinJP@rts-pv.com].

8-2-04 Xantrex Technology Financial Results

Second quarter financial results for Xantrex Technology, Inc. can be found at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNACO234.htm>

Xantrex: <http://www.xantrex.com/>

8-2-04 Carmanah Technologies Financial Results

Carmanah Technologies financial results for its second quarter can be found at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNACO231.htm>

Carmanah: <http://www.carmanah.com/>

8-2-04 PG&E PV Funding Program

Pacific Gas & Electric's wait list for the Self-Generation Incentive Program Level 1 (solar, wind, and fuel cells running on renewable fuel) budget reached 109 applications requesting \$76.6 million, as of July 23. Therefore, PG&E has decided to stop accepting new Level 1 applications for 2004, and applications received after July 30 will be returned to the sender. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAGO188.htm>

PG&E: <http://www.pge.com/selfgen/>

8-2-04 India, Solar Power for Lighting and Outdoor Ads

The Union Minister of State for Non-Conventional Energy Sources wants the State Governments to ensure that power for both street lighting and outdoor advertising comes from solar panels rather than from conventional sources. More on this story through Solarbuzz at:

<http://www.agencyfaqs.com/news/stories/2004/08/02/9581.html>

8-2-04 More on Sharp Solar's New Products

Two solar cell lighting products were recently introduced. The first integrates long-life, energy-efficient, high-intensity LEDs with thin-film "see-through" solar cells into a solar module. The second is a solar streetlight that combines solar cells with a pole incorporating LEDs. For the first of the two products, Sharp developed their Crystalline Thin-Film Tandem Cell merging amorphous silicon and crystalline thin-film silicon cells, for a cell conversion efficiency of 7.3%.

Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7249>

Sharp Solar: <http://www.solaraccess.com/marketplace/compdetail?compid=1262>

8-2-04 Solar Chic in New York

A small but growing number of homeowners in the metropolis are investing in solar energy. About 35 solar systems have been installed over the last few years in New York City. New York's trendsetters are in the center of an East Coast solar movement happening in Massachusetts, Connecticut, New Jersey, and Pennsylvania, second only to solar usage in the West's California, Nevada, Arizona, and New Mexico. See more on "Solar Status" in the story at SolarAccess:

<http://www.reuters.com/financeNewsArticle.jhtml?type=bondsNews&storyID=5830820>

In related news:

8-2-04 Australia, Solar Thermal Plant

Macquarie Generation is using a large array of solar thermal collectors to provide steam and feedwater for a coal-fired power plant northwest of Sydney. The first phase of the solar trough project has a nominal thermal capacity of 1.2 MW with planned expansion to 40 MW. Solar Heat and Power, based in Australia and Germany, is the developer. The technology employs what the developers call their Compact Linear Fresnel Reflector (CLFR), which in this first phase covers an area of about 60 x 30 meters consisting of several rows of flat mirrors that concentrate the sun's radiation to a fixed plane absorber installed about 10 meters above the field. Story at: <http://www.solaraccess.com/news/story?storyid=7238>
Solar Heat & Power: <http://www.shp-europe.com/en/aboutus.html>

JULY

7-30-04 Lifecycle Assessment of Energy Sources

A World Energy Council study analyzes all stages of energy production and use for a range of conventional and alternative energy sources - including PV - from raw materials supply, production, transport, and energy generation to recycling and disposal stages. Story at ReFocus:

[http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=64066714&accnum=1&topics=World Energy Council](http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=64066714&accnum=1&topics=World+Energy+Council): <http://www.worldenergy.org/wec-geis/publications/default/launches/lca/lca.asp>

7-30-04 PV Industry and Waste Regulations

New restrictions on waste and the use of hazardous substances in electrical equipment will be implemented by member states of the European Union this year, and will restrict the use of lead and cadmium. The restriction "will have a significant impact on the PV industry" according to the European Photovoltaic Industry Association, which wants an "exceptional grant for such materials in photovoltaic products". Story at ReFocus:

http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=88680666&accnum=1&topics=

7-30-04 Green Power Potential

A balanced energy plan would revamp the electricity system to reduce fossil fuel consumption and CO2 emissions by 47% while saving US\$36 billion a year according to "A Responsible Electricity Future: An Efficient, Cleaner & Balanced Scenario for the U.S. Electricity System" prepared for the National Association of State Public Interest Research Groups. Story at ReFocus:

http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=81246584&accnum=1&topics=

7-30-04 Green Energy in Europe [Amy Cole]

Research and Markets has a new report by Reuters Business Insight produced in conjunction with Greenprices.com, Green Energy in Europe: Strategic prospects to 2010, which contains country profiles, examines key players' strategies, assesses the potential of each renewable energy technology, and provides recommendations for success. Information at:

http://www.researchandmarkets.com/search.asp?cat_id=0&q=green%20energy%20in%20europe:%20strategic%20prospects%20to

7-30-04 Increasing Renewables

Two policy approaches popular for developing renewable energy supplies in the U.S. are green power markets and state renewable energy requirements and goals. Coverage of these two approaches, and results, can be found in a story from EERE Network News at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7230>

7-30-04 Navigant Study on Rural Energy Delivery [Lisa Frantzis, Patricia Mahon]

Navigant Consulting is launching a multi-client study to examine the state of rural energy delivery and the prospects for acceleration of rural energy service based on distributed technologies. The target start date for the project is 30 September 2004. Navigant Consulting:

<http://www.navigantconsulting.com>

7-30-04 More on Sharp's Lumiwall

Additional coverage of Sharp's new Lumiwall can be found at:

<http://www.physorg.com/news575.html>

7-30-04 Batteries for Renewable Energy Applications

Saft's new Sunica.plus range of rechargeable nickel-cadmium batteries has been developed to provide optimum energy storage for renewable energy applications such as PV and wind power systems. Information as Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPT24.htm>
Saft: http://www.saftbatteries.com/010-Home/10-10_home.asp

7-30-04 World Energy Congress & Exhibition

The 19th World Energy Congress and Exhibition is set for 5-9 September 2004 in Sydney, Australia. For more on this event, see: <http://www.tourhosts.com.au/energy2004/news.asp>

7-30-04 John Kerry's Speech

For the full text of John Kerry's speech at the Democratic National Convention, including energy references, go to: http://www.JohnKerry.com/pressroom/speeches/spc_2004_0729.html

7-30-04 Information on Congressional Renewable Energy & Energy Efficiency Expo

The Sustainable Energy Coalition's 7 September 2004 event in Washington, D.C. is outlined at the GVEP site at: <http://www.gvep.org/content/calendar/detail/8455>

7-29-04 GE Solar Sales

Says the head of GE's solar business, Ali Iz, GE Energy is hoping to boost its solar energy sales to \$1 billion annually by the end of the decade. Iz said GE Energy is adding about 20 contractors for production operations at its plant in Delaware, formerly owned by AstroPower. Story through Solarbuzz at: <http://msnbc.msn.com/id/5537901/>
GE Energy: <http://www.gepower.com/home/index.htm>

7-29-04 ISES Solar Academy: Integration of Solar Technologies in Building Design [Maryke van Staden]

This training event will take place 29 August to 4 September 2004 in Freiburg im Breisgau, Germany. The targeted group is professional building designers as well as senior students of architecture and civil engineering who are interested in solar energy, energy efficiency and renewable energy for sustainable building design. For more information, see: <http://www.ises.org/shortcut.nsf/to/freiburg2004>

7-29-04 New York Green Technologies

The Center for Economic Growth has been awarded \$150,000 over 3 years to promote efforts to develop alternative energy technology. The funding is part of \$450,000 going to 3 organizations in New York, others being the Long Island Forum for Technology and High Tech Rochester. Story at: http://albany.bizjournals.com/albany/stories/2004/07/26/daily32.html?jst=b_In_hl

7-29-04 Sharp Lighting

Kyodo economic news reports that Sharp will sell light-producing solar panels - the Lumiwall — with embedded light emitting diodes starting November 1. See short segment of: <http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1773596&ResultCategoryType=2,7&NewsPageID=3>
Sharp Lumiwall: <http://sharp-world.com/corporate/news/040729.html>

7-29-04 Australia's Renewable Energy Firms

This article refers to the "off-shoring" of Australia's renewable energy companies, including CSG solar cells to Germany (<http://sg.biz.yahoo.com/040728/16/3m0m6.html>). A flyer distributed at the recent European PV conference [Harin Ullal] announced "the Birth of a New PV Company", CSG Solar formed by the former employees of Pacific Solar Pty Ltd of Sydney, to commercialize the Crystalline Silicon on Glass PV technology. The new company - CSG Solar -

is based in the German state of Saxony-Anhalt, made possible by financial and strategic support from Q-Cells AG, Germany, and Renewable Energy Corporation, Norway, plus financial backing from IBG Beteiligungsgesellschaft Sachsen-Anhalt, Germany. CSG Solar AG has formed a wholly owned R&D subsidiary, CSG Solar Pty Ltd, which will operate in Botany, Australia using the pilot-line equipment purchased from Pacific Solar. Coverage of these developments can also be found in Strategies Unlimited's July issue of Solar Flare.

7-29-04 SMA Manufacturing Facilities

In response to increasing demand, SMA Regelsysteme GmbH has opened two new manufacturing facilities. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7226>

SMA: <http://www.sma-america.com/index.asp>

In related news....

7-29-04 Solel Solar Systems Power Station

Solel Solar Systems has decided to build a solar power station in the Ashalim area in Negev, Israel. The station will initially produce 150 MW of power, and upon completion will produce 500 MW. Solel was founded in 1992 after acquiring the rights of solar energy developer Luz. Story at:

<http://www.globes.co.il/serveen/globes/DocView.asp?did=819431&fid=942>

Solel Solar Systems: <http://www.solel.com/>

7-28-04 E2I and EPRI Nanotechnology Research Grants [Kevin Eber]

The Electricity Innovation Institute (E2I) and the Electric Power Research Institute (EPRI) awarded the first 3 grants through its newly created Innovative Small Grants Program. One of the \$100,000, 1-year grants is for "Synthetic Approaches to New Photovoltaic Materials based on Order Chalcopyrite Quantum Dot Arrays in Polymer Matrices for the Development of High Efficiency Solar Cells", to Dr. Pamela Shapiro, University of Idaho. More at:

<http://www.e2i.org/e2i/news/press07272004.html>

http://www.epri.com/corporate/discover_epri/news/2004/072704_E2Igrant.html

7-28-04 Mitsubishi's Hydrogen Fuel Technology

Mitsubishi Corp. is investing \$14 million in a new Vancouver-based spinoff company to make hydrogen fuel-production systems. H3, based at the University of British Columbia's research park, will develop its patented technology that produces high-pressure hydrogen gas from water electrolysis without a compressor. H3 said it plans to target small-scale industrial applications, hydrogen refueling stations for fuel-cell vehicles, back-up stationary power units, and systems that use renewable energy such as wind and solar to produce electricity to make the hydrogen. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1765750&ResultCategoryType=2,7&NewsPageID=3>

7-28-04 More on NREL's Science & Technology Facility

Coverage of the groundbreaking for NREL's Science & Technology Facility can be found at:

http://story.news.yahoo.com/news?tmpl=story&cid=669&ncid=669&e=10&u=/usnw/20040727/pl_usnw/new_research_facility_holds_promise_for_nation_s_energy_future_leaders_praise_innovative_design_for_nrel_s_first_major_expansi

Said Representative Bob Beauprez, the facility will "foster the research and development needed by the United States energy industry to be a leader in the highly competitive international marketplace. I along with Sen. Allard, am proud to support NREL and the outstanding work it has done in the renewable energy field."

See also, EERE Network News Coverage [Kevin Eber]:

<http://www.eere.energy.gov/news/#7413> and <http://www.ens-newswire.com/ens/jul2004/2004->

[07-28-09.asp#anchor5](http://www.denverpost.com/Stories/0,1413,36~53~2298147,00.html)

<http://www.denverpost.com/Stories/0,1413,36~53~2298147,00.html>

DOE Press:

http://www.energy.gov/engine/content.do?PUBLIC_ID=16246&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

7-28-04 Solar Flare [Paula Mints]

The July 27 Issue of Solar Flare by Strategies Unlimited (subscription) contains an overview of the recent 19th European PV Solar Energy Conference, as well as interviews with Bill Rever, BP Solar, on the coming of age of the PV industry, and an interview with Milfred Hammerbacher, President, and Rick Robertson, VP of Business Development, Spheral Solar Power. Strategies Unlimited: http://su.pennnet.com/pv_service.cfm

7-28-04 Oregon's PV Powered

After releasing its first model, PV Powered has a line of 3 inverters for residential and commercial installations. More on this company and its developments at:

http://www.tidepool.org/original_content.cfm?articleid=123724

PV Powered: <http://www.pvpowered.com/>

7-28-04 Sumitomo and Solar Cell Materials

For those with a subscription, the news wires reference a story, "Sumitomo Gains Rights to Sell Solar Cell Materials in Asia", Nikkei Interactive 26 July.

7-28-04 PV Program in Australia

Solar energy contracts have been awarded to 11 housing developers in Australia following a rule change that will allow developers to tender for rebates on their display homes and innovative developments. The Australian government has allocated A\$316,000 in rebates to builders in this round, and a further round will be called shortly. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASGO60.htm>

7-28-04 India, Village Electrification [Harin Ullal]

India has launched a new project to electrify 25,000 villages using renewable energy resources. Although the projects are primarily biomass, PV will also be deployed. Story at:

<http://www.siliconindia.com/shownewsdata.asp?newsno=24999&newscat=Top>

7-28-04 More in PIER Program Zero Energy New Homes Workshop

The location of the Public Interest Energy Research Program and the Renewable Energy Program workshop on New PV Business Models to support PIER's Zero Energy New Homes Initiatives, August 2, has been changed. See: http://www.energy.ca.gov/pier/notices/2004-07-16_wrkshp_notice.html

7-28-04 Maldives Renewable Energy

A workshop funded by USAID and conducted in the capital city of the Republic of Maldives by the Ministry of Communication, Science and Technology explored the possibilities of generating renewable energy in the Maldives. Story at:

<http://www.solaraccess.com/news/story?storyid=7222>

7-27-04 Science & Technology Facility at NREL

A ceremony today in Golden, Colorado will initiate the construction phase of a new Science and Technology Facility at NREL. Said NREL's Director, Richard Truly, who will host the groundbreaking, "This new facility is critical to developing the next generation of America's renewable energy technologies". The project has been supported by Colorado's congressional

delegation, and Senator Allard and Representative Beauprez will speak at the ceremony, as well as David Garman, DOE's acting Under Secretary, and Jim Spigarelli, President and CEO of Midwest Research Institute. Press at:

http://www.energy.gov/engine/content.do?PUBLIC_ID=16240&BT_CODE=PR_MEDIAADVISORIES&TT_CODE=PRESSRELEASE

More information on the Facility: <http://www.nrel.gov/>

7-27-04 Iowa Thin Film Technologies

Coverage of developments at Iowa Thin Film Technologies, in the Des Moines Register, can be found at:

<http://www.desmoinesregister.com/apps/pbcs.dll/article?AID=/20040719/BUSINESS05/407190314&SearchID=73178242846787>

7-27-04 Solar PV Monitoring

Fat Spaniel Technologies has raised \$500,000 in its "Friends and Family" round of financing. The proceeds will be used to strengthen relationships with industry integrators and equipment manufacturers, to support the sales function and advanced feature development. Fat Spaniel's PV2Web(tm) (PV2Web™ is a trademark of Fat Spaniel Technologies, Inc., San Jose, California) is already being sold globally with close to 2 MW being monitored. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7212>

Fat Spaniel: <http://www.fatspaniel.com/>

7-27-04 Inverter Introduced [Diane Jensen]

Alpha and Altair introduced the Solaris 3500 PV inverter at the ASES annual conference in mid-July. The grid-tied inverter can accommodate up to 6 separate sub-arrays. For more information visit <http://www.altairenergy.com> and <http://www.alpha.com>

7-27-04 California, Butte College Solar

Butte College's Board of Trustees will be reviewing a plan for a 3-acre, 900 kW solar power plant to be located on the campus. The panels will be mounted 6 feet above the ground so the campus can use a herd of goats to keep down the vegetation around the facility. The panels will also be mounted with a sprinkler system, mainly to wash off dust, but also to protect the facility in the event of a brushfire. Story through Solarbuzz <http://www.solarbuzz.com/index.asp>

at: <http://www.oroillemr.com/Stories/0,1413,157%7E26686%7E2296784,00.html>

7-27-04 Marketing Green Power

Hear Blair Swezey, Mark Kapner, EPA, The Center for Resource Solutions, and others at the Platts conference on "Marketing Green Power", 5-6 August 2004 at the Omni San Francisco.

Conference site: <http://www.platts.com/Events/PB478/index.html>

7-27-04 Industry Growth Forum

The deadline to apply to present at the 17th NREL Industry Growth Forum is August 2. The forum features 3 days of networking and company "business case" presentations to promote and enhance the success of new features, emerging businesses, and the growth of entrepreneurship in the clean energy sector. For more information on the forum, see:

<http://www.cleanenergyforum.com/>

7-27-04 European Photovoltaic Industry Association Negotiations

EPIA is under negotiations with the European Commission to support the coordination of the PV TRAC (Technology Research Advisory Council) and to run the Secretariat of the future European Photovoltaic Technology Platform. EPIA has already started to work on major issues undertaken with the PV Catapult project. Press at: <http://www.epia.org/07news/newsletter.asp>

7-26-04 Solar Power 2004 [Susan DeVico]

Online registration is open for Solar Power 2004, which will bring together top executives, utility representatives, policymakers, builders, contractors, engineers, and solar enthusiasts in San Francisco at the Hyatt Regency 18-21 October 2004. Solar Power 2004:

<http://www.solarpower2004.com/>

Coverage at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO230.htm>

7-26-04 Renewables in the West

"The American West is the Saudi Arabia of renewable energy", said New Mexico Governor Bill Richardson. Western states have announced plans for conversion to renewable energy in the next decade or so. California's goal is to produce 20% of its electricity from renewable sources by 2017. New Mexico is aiming for 10% by 2011. Texas has set a goal of 2.7% by 2009. Said Tom Hansen of Tucson Electric, there are reasons to be confident about the conversion to renewable energy. "For one thing, the price is going down." The infrastructure cost - for erecting windmills or photovoltaic-cell arrays - is dropping rapidly as technology improves and production increases. "I can tell you exactly how much an hour of sunshine is going to cost 15 years from now," said Hansen. "That's not so easy to predict if you're talking about a barrel of oil or a ton of coal. More on this story at:

http://seattletimes.nwsourc.com/html/business/technology/2001988408_sunpower26.html

7-26-04 Governors on Energy Tax Credits

Governors Pataki, Schwarzenegger, Perry, and Bush have teamed up to advance an agenda that includes pushing the Federal government to support tax incentives for renewable energy and alternatively fueled vehicles. The 4 governors sent a joint letter to Senate Majority Leader Frist, House Speaker Hastert, Senate Finance Committee Chairman Grassley, and House Chairman of the Ways & Means Committee Thomas promoting the importance of the legislation to the states. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7198>

7-26-04 U.S. Solar Power

For an article titled "U.S. Must Capitalize on Solar Power" by Rowland Nethaway, including mention of PV advances and state commitments, see:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=54531359&ID=cnniw&scategory=Energy%3AAlternative&nergy%3AAlternative&

7-26-04 Training Programs in India [George Peter]

The Renewable Energy Centre, Mithradam, is conducting one-week training programs in solar-PV stand alone systems, solar and solar-assisted drying, and energy from biomass. Visit the web site at <http://www.mithradham.org/>

7-23-04 In Memory, Mark McCray

Dr. Mark McCray, founder and president of RMS Electric, Inc., in Boulder, Colorado, and long-time solar supporter, lost his battle with cancer on July 13. We will certainly miss him. [SEI Newsletter 19 July].

7-23-04 RWE SCHOTT Solar Expansion

RWE SCHOTT Solar is setting up an additional 40-MW cell capacity at its headquarters in Alzenau, as well as 40-MW module capacity in the Czech Republic. Much more on these developments at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1744515&ResultCategoryType=2.7&NewsPageID=3>

RWE SCHOTT Solar:

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2Erweschottsola>

[r%2Ecom&template=2,2](#)

<http://www.rweschottsolar.com/cms/us/webseite.aspx?navid=1>

7-23-04 Thailand, Support for Solar

Said Prime Minister Thaksin Shinawatra at the opening of the Pha Bong solar-powered generating station, electricity production from solar cells will be stepped up to offload some of the huge cost of building new power plants. Story through Solarbuzz

<http://www.solarbuzz.com/index.asp>

at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=54381853&ID=cnniw&scategory=Energy%3AAlternative&

7-23-04 U.K., Photovoltaic Material for the 21st Century

Additional coverage of the U.K. project, Photovoltaic Material for the 21st Century, which is looking to develop new thin-film solar cells, can be found at:

<http://www.miningweekly.co.za/min/news/breaking/?show=54093>

7-23-04 New York, Sunslates

Atlantis Energy Systems, which manufactures PV shingles called Sunslates, will open a facility in the Town of LaGrange next month. Business Brief at:

<http://www.poughkeepsiejournal.com/today/business/stories/bu072304s3.shtml>

Atlantis: <http://www.atlantisenergy.org/>

7-23-04 Renewable Energy and Energy Efficiency Expo

The 7th Annual Congressional Renewable Energy and Energy Efficiency Expo and Ice Cream Social is scheduled for 7 September 2004 at the Cannon House Office Building in Washington, DC. The Expo will bring together over 50 companies from across the U.S. representing more than 2 dozen renewable energy and energy efficiency technologies. Previous Expos have drawn nearly 3,000 visitors including members of Congress, congressional staff, Executive Branch officials, members of the media, and general public. [Ken Bossong, Sustainable Energy Coalition, Kbossong614@yahoo.com]

7-23-04 California, PIER Workshop

The California Energy Commission invites participants to a Public Interest Energy Research (PIER) Program and Renewable Energy Program public workshop on New Photovoltaic Business Models to support PIER's Zero Energy New Homes Initiative, 2 August 2004 in Sacramento. Information at: http://www.energy.ca.gov/pier/notices/2004-07-16_wrkshp_notice.html

7-23-04 Interstate Renewable Energy Council News [Jane Pulaski]

The latest news from IREC on Million Solar Roofs, incentives and rebates, interconnection and net metering, and many other topics can be found in IREC's latest newsletter at:

<http://irecusa.org/>

7-23-04 More on Half-MW PV System at South Feather

Additional coverage including many photos of the half-MW solar energy system with 3,060 Sharp 185-W panels at the South Feather Water and Power Agency in northern California, designed and installed by Sun Power & Geothermal, can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7199>

7-23-04 Siemens Alpine Water & Power Supplies

Serving as a general contractor, Siemens Building Technologies has brought environmentally compatible technology to the German Alpine Association's Ingolstaedter Haus and other alpine huts, including solar power. Story at: <http://www.physorg.com/news455.html>

Siemens: <http://www.siemens.com/index.jsp>

7-23-04 Energy Tax Packages

Congress adjourned for its 6-week summer recess without having made progress on the conference negotiations on House and Senate bills that contain energy tax provisions.

In related news:

7-23-04 Global Warming Lawsuit

Iowa has joined with seven states and New York City in filing a federal lawsuit against 5 power companies charging carbon dioxide from their electric generating plants in contributing to harmful climate changes.

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1742374&ResultCategoryType=2.7&NewsPageID=3>

7-22-04 More on Sanyo Expansion

Sanyo Electric Co. is planning to increase cell production to 158 MW, after a late-May decision to increase capacity of its Heterojunction with Intrinsic Thin Layer (HIT) technology at its subsidiary, Shimane Sanyo Industrial, from 30 to 50 MW. This and more news at Photon International:

http://www.photon-international.com/news/news_2004-07%20ap_sn_Sanyo.htm

Photon International, July 2004 Contents: http://www.photon-international.com/photon/news_issue_2004-07.htm

7-22-04 Ixys Miniature Modules

Ixys launched 2 new modules lines this Spring - Solar Arrays and Solar Cards. The modules contain monocrystalline solar cells, and can be installed in portable devices. More on these developments, and other news at Photon International:

http://www.photon-international.com/products/products_2004-07%20ww_np_ixys.htm

Photon International, July 2004 Contents: http://www.photon-international.com/photon/news_issue_2004-07.htm

7-22-04 EPV Modules in Germany

Energy Photovoltaics, Inc. has completed delivery of 120 kW of its EPV-40 thin-film amorphous-silicon modules manufactured in New Jersey to MVV Energie in Mannheim, Germany.

Approximately 112 kW of the modules are being installed on the Moehlstrasse Project in Mannheim. Press at EPV: <http://www.epv.net/news/news.htm>

7-22-04 NIST Building Integrated PV Program [Gerald Ceasar]

NIST's Building Integrated PV program consists of short-term testing to characterize the electrical performance of BIPV panels that utilize various cell technologies, modeling to predict the annual energy prediction of the panels, and long-term performance monitoring of the panels under real-world conditions. Joint efforts will be undertaken to improve the accuracy of predictive models. For more on this program, including the roadmap, see:

<http://www.bfrl.nist.gov/863/bipv/>

7-22-04 Earth Island PV Station [Bill Jeppesen]

RWE SCHOTT Solar Inc. and Permacity Corporation announced that their customer Earth Island Natural Foods is now powered entirely by the sun. Using the RSS non-penetrating SunRoof FS(tm) (SunRoof FS™ is a trademark of RWE Schott Solar, Inc.) flat-roof PV mounting

system, RSS and Permacity designed a 113-kW solar electric system for the Chatsworth, California-based company. [RSS & Permacity Press] RWE SCHOTT Solar:

<http://www.rweschottsolar.com/cms/us/webseite.aspx?navid=56>

Permacity Corp.: <http://www.permacity.com/>

7-22-04 Zero Stage Capital Distribution

Zero Stage Capital announced it made its first distribution to limited partners of Zero Stage Capital VII, LP, a \$160-million venture investment fund, following the sale of the company's position in Evergreen Solar, Inc. Zero Stage Capital reported that the Evergreen Solar investment returned a 3.4 multiple from its 2001 investment. Story at:

http://biz.yahoo.com/bw/040722/225073_1.html

Zero Stage Capital: <http://www.ZeroStage.com/>

7-22-04 Solar Housing in Philadelphia

PECO Energy has provided the Philadelphia Housing Authority with a grant of \$232,100 for installation of PV systems at 22 homes in the Grays Ferry Estates. The grant is part of a \$500,000 PECO commitment to support solar power installation in low-income housing in Philadelphia. Story at: http://biz.yahoo.com/prnews/040722/phth009_1.html

7-22-04 India, BHEL Solar Contract in Sunderbans

Bharat Heavy Electricals Limited has won a major contract for setting up 5 stand-alone solar power plants in the Islands of Sunderbans, West Bengal. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASPR120.htm>

BHEL Press: http://66.39.99.160/bhel/press_release/qtr4.htm

7-22-04 Engency GIS Platform for Solar [Alex Aguiar]

Engency, Inc. has created a GIS geoanalytic platform for solar industries. It is integrated with the Engency customer database, a marketing acceleration tool built for the PV industry to acquire new residential customers. For information, contact Alex Aguiar at

aaquiar@engency.com.

7-22-04 More on Renewable Energy in Latin America Conference

Platts' 2nd Annual Renewable Energy in Latin America conference is set for 20-21 September 2004 in Miami, Florida. More information at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7179>

Platts Web Site: <http://www.platts.com/Events/PB477/index.html>

7-22-04 SolFest

SolFest(tm) (SolFest™ is a trademark of the Solar Living Center) is set for 21-22 August 2004 at the Solar Living Center, Hopland, California. For more information, see:

<http://solarliving.org/solfest2004.cfm>

7-22-04 SSEIA Director Candidates

According to SEIA's July 14 electronic newsletter, the SEIA Board's search committee narrowed down the list of applicants to 5 final candidates who are set to interview in Washington, DC today. For more information contact interim Executive Director Scott Sklar at

solarsklar@aol.com.

SEIA: <http://www.seia.org/>

7-22-04 "Sunny Side Up"

For a Newsweek article featuring Takashi Tomita, Sharp, see:

<http://msnbc.msn.com/id/5457073/site/newsweek/>

Highlighted at SolarAccess: <http://www.solaraccess.com/news/index.jsp>

7-20/21-04 GEMZ Nanofilms

GEMZ Corp. announced that its subsidiary International Nanotechnology Corporation has made progress towards developing a solar-powered solution for cell phones and laptop computers. INC previously announced it had signed a letter of intent with Terra Solar Development Corp to acquire substantially all of its nanotechnology assets and certain PV assets. Per the article, the INC products are believed to be the first to use PV Nanofilms, which combine thin photovoltaic films and nanotechnology so they can also work indoors in most lighting situations. The product is expected to be available for sampling in the 4th quarter of 2004. Story at:

http://biz.yahoo.com/bw/040721/215537_1.html

GEMZ: <http://www.gemzcorp.net/>

7-20/21-04 HelioVolt Developments

HelioVolt Corporation has completed a round of angel investor funding to finance the development of prototype solar cells using its patented thin-film PV technology. Story at

Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO229.htm>

HelioVolt: <http://www.heliovolt.com/>

7-20/21-04 Sun Power & Geothermal Half-MW PV System

Sun Power & Geothermal Energy has commissioned a 566-kW DC PV system for the South Feather Water & Power Agency in Oroville, California. The system comprises 3,060 Sharp 185-PV panels, 2 Xantrex PV225 inverters and 1 Xantrex PV45 inverter. Also, the system is monitored in real time by Sun Power's proprietary SunSpot(R) (SunSpot® is a registered trademark of the Sun Power & Geothermal Energy Co., Inc.) system, and actual electrical production is posted live to an interactive kiosk in South Feather's customer service center and on the Internet. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR397.htm>

Sun Power & Geothermal Energy: <http://www.sunpowergeo.com/>

7-20/21-04 Sharp Development

Posted to the wires today, with reference to a subscription article, is news according to nikkei.net that Sharp has built a dome-shaped prototype solar "cell" 170 CM long and 30 cm wide with an output capacity of around 150 watts. And, Sharp claims that the "cells" are half the cost of the current silicon cells. Per the news brief, the key to improved power generation includes the plastic lens to focus the sun's rays as well as compound semiconductors within the cell. (Likely the concentrator module reported at the European PV Solar Energy Conference in June in Paris) See: <http://www.theInquirer.net/?article=17332>

7-20/21-04 California, PV System in Buena Park

A multi-unit apartment complex in Buena Park has installed a 51-kW solar electric system on the roof of the parking garage comprising 324 Kyocera 158-Watt solar electric modules. The system was designed and installed by SolSource Energy, an authorized dealer of Kyocera Solar, Inc. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR395.htm>

SolarAccess: <http://www.solaraccess.com/news/story?storyid=7176>

Kyocera: <http://www.kyocerasolar.com/>

SolSource Energy: <http://www.solsourceenergy.com/>

7-20/21-04 Prevalent Power Schools Contract

Prevalent Power announced it has secured contracts to supply and install 180 kW of PV power for 6 California public schools. The PV system components are to be supplied by RWE SCHOTT Solar, comprising 1,296 165-Watt solar PV modules and 7 Xantrex PV-series utility-interactive inverters, as well as mounting hardware for the modules. For more details on the school program, PV system, and monitoring, see the story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR396.htm>

Prevalent Power: <http://www.prevalentpower.com/>

7-20/21-04 San Diego Gas & Electric Request for Offers

San Diego Gas & Electric Company is issuing a Request for Offers so it can expand to a 20% renewable energy portfolio by 2010. Information at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7159>

SDG&E: <http://www.sdge.com/RenewableRFO/index.shtml>

7-20/21-04 California, Zero Energy Homes

WillowCreek is one of 4 ZEH communities in the country and the first in Southern California to offer the ZEH package as a standard feature in every home in the community. At WillowCreek, a 2.4-kW PV integrated roofing system provides electricity. Rinnai tankless water heaters were recently selected as the exclusive hot water systems provider for the community. Story at:

http://biz.yahoo.com/prnews/040721/clw010b_1.html

Rinnai: http://www.gfd.com.au/html/rinnai_hot_water_units.html

7-20/21-04 More on Spire Solar at Chicago's Millennium Park

Spire Solar has completed 5 new building-integrated PV systems for Millennium Park in Chicago. Story and photos at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7165>

Spire: <http://www.spirecorp.com/Spire/index.html>

7-20/21-04 UQM Inverter

UQM Technologies, Inc. has received a contract from the U.S. DOE to develop a 5-kW modular inverter. More at: http://biz.yahoo.com/prnews/040721/law027_1.html

UQM: <http://www.uqm.com/>

7-20/21-04 Solar Car Record

A solar PV car built by the University of Waterloo in Ontario will tour all 10 provinces of Canada and 25 U.S. states this summer to set a world record for the longest single journey by a solar-powered car. The 19,000-km 40-day tour will put Midnight Sun VII ahead in the Guinness records. This and other renewables news in News-in-Brief at ReFocus:

http://www.sparksddata.co.uk/refocus/fp_showdoc.asp?docid=18676395&accnum=1&topics=

7-20/21-04 Platts Renewable Energy Conference in Latin America

Platts has announced its 2nd Annual Renewable Energy in Latin America Conference, 20-21 September 2004, in Miami, Florida. Information at:

http://biz.yahoo.com/prnews/040720/nytu117_1.html

Conference Web site: <http://www.platts.com/Events/PB477/index.html>

In related news...

7-20/21-04 Dish Stirling System in Spain

A 10-kW dish Stirling system, the first solar thermal station to be permitted to feed electricity into the national grid under Spain's new conditions of 2002, starting running in Sevilla in early April.

The project is supported by the German Aerospace Centre, which has been researching the further development of the technology in cooperation mainly with German companies for more than 10 years. Story at: http://www.german-renewable-energy.com/www/main.php?tplid=6&aktuell_id=35&PHPSESSID=383a0ccb1a476a093c19b66f3c416f5e

DLR, German Aerospace Center:

<http://www.dlr.de/dlr/internal&action=setlanguage.action?LANGUAGE=en>

7-19-04 Germany, Aleo Module Capacity

Aleo Solar GmbH plans to break ground on a new module assembly facility next month adjacent to the existing plant, with first production planned during the first quarter of 2005. Module production capacity will increase from 30 to 60 MW per year. Aleo Solar focuses on module assembly with multi-crystalline cells. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEU46.htm>

Aleo: <http://www.aleo-solar.de/>

7-19-04 Laos Rural Electrification

The government of Lao People's Democratic Republic (Laos) has received financing from the World Bank toward the cost of the Southern Provinces Rural Electrification off-grid project. Part of the funding will go towards solar equipment. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASPR119.htm>

7-19-04 Konarka on Distributed Power Generation [Hilary Ives]

Konarka Technologies announced its Chairman and CEO Howard Berke will speak about distributed power generation at the Energy Tech Investor Conference 19-20 July in San Francisco, California. [Konarka Media]

Energy Technology Investor Conference:

http://www.srinstitute.com/ApplicationFiles/web/WebFrame.cfm?web_id=255

Konarka: http://www.konarkatech.com/news_press.php

7-19-04 U.S., Four Corners - San Juan Renewables

The PNM San Juan Generating Station recently donated \$34,000 to the San Juan College Renewable Energy Program. In 2001 SJGS contributed \$50,000 to start up the program, with an additional \$100,000 over a 3-year period starting in 2003. The program has grown from 2 students the first year to current enrollment of 30 students. Students can earn either a 1-year certificate or a 2-year associate's degree in Photovoltaic System Design and Installation. Story at: http://www.businessjournals.com/artman/publish/article_530.shtml

7-19-04 ASES Solar 2004 Closes

For a wrap up of Solar 2004 at SolarAccess including coverage of solar hydrogen, inverters, and other topics, see: <http://www.solaraccess.com/news/story?storyid=7150>
Cecile Warner and Alison Mason were first to receive the "Women in Solar Energy Award".

7-19-04 U.S., FY 2005 Energy Appropriations

The FY 2005 Energy appropriations bills will likely be wrapped into an Omnibus bill to be considered in September.

7-19-04 U.S., Energy Tax Credit to Conference

The corporate tax bill is going to conference, and includes tax incentives for production of wind, solar and geothermal energy. The Senate has named conferees, and the House will follow.

7-16-04 RWE Schott Solar Expansion

RWE Schott Solar is increasing production of solar cells at its headquarters in Alzenau, Germany. The company is investing a total of 40 m euros to create a capacity far exceeding 40 MW. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1732529&ResultCategoryType=2.7&NewsPageID=3>

RWE Schott:

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2Erweschottsolar%2Ecom&template=2.2>

<http://www.rweschottsolar.us/>

7-16-04 Spire Solar Systems

Spire Corporation announced the completion of 5 new building-integrated PV systems for Chicago's Millennium Park. Said Mayor Richard Daley, "Using solar electricity at Millennium Park is consistent with our goal as a city to expand the use of renewable energy." More on this story at: http://biz.yahoo.com/bw/040715/155846_1.html

Spire: <http://phx.corporate-ir.net/phoenix.zhtml?c=76421&p=IROL-SingleRelease&t=Regular&id=591717&>

7-16-04 U.K., Romag Factory

Glass specialist Romag Holdings has invested £3.5M in a new factory to produce PV panels for buildings. The company has an agreement with BP to supply the PV cells, and has another deal with BP to supply its worldwide BIPV needs. Story at:

http://icnewcastle.icnetwork.co.uk/0500business/0100local/tm_objectid=14432369&method=full&siteid=50081&headline=romag-ready-to-spread-a-lot-of-sunshine-name_page.html

7-16-04 Strategies Unlimited on PV Markets and Application Forecast [Tim Carli]

Strategies Unlimited recently released a 208-page report, Global Analysis of Photovoltaic Markets and Application Forecast, which provides a detailed analysis of the demand side of the PV market. Market data are provided by application and broken out by 5 regions of the world, with specific detail for 34 countries. More on this report at Strategies Unlimited:

http://su.pennnet.com/report_display.cfm?rep_id=116

7-16-04 Nanotubes Report

Research and Markets has announced the addition of The Nanotubes Report 2004 to their offering. The report includes a global survey of the producers, technologies, application, and markets for carbon nanotubes. Solar cells are covered in a section starting page 74. More at:

http://biz.yahoo.com/bw/040716/165203_1.html

Research and Markets: <http://www.researchandmarkets.com/reports/c2798/>

7-16-04 More on PV R&D 100 Award

Global Solar Energy's thin-film (CIGS) PV modules were named among the year's 100 most significant technological innovations by R&D Magazine. The award recognizes GSE, NREL, and ITN Energy Systems, Inc. More on this award at:

http://biz.yahoo.com/bw/040715/155933_1.html

Global Solar: http://www.globalsolar.com/GLOBAL_FLASH.htm

7-16-04 Solar Cars

The Houston Solar Race Team and the Winston Solar Car Team from Dallas won their respective divisions in the 2004 Dell-Winston School Solar Car Challenge. The Houston Solar Race Team drove Sundancer to win the Open Division. The Winston Solar Car Team drove Hunter to take the Classic Division. Story at: http://biz.yahoo.com/bw/040715/155518_1.html

In related news...

7-16-04 Solargenix Energy , LLC announced the promotion of Randy Gee to Director of Research, Development and Deployment, a newly formed business unit. Gee will be responsible for RD&D activities leading to the commercialization of new and improved Solargenix products and systems. [Story at:](#)
<http://www.solaraccess.com/news/story?storyid=7146> Solargenix Energy:
<http://www.solargenix.com/prod/Company/companyoverview.asp>

7-16-04 China Solar Plant

German Foreign Minister Joschka Fisher has opened what is billed as the biggest solar collector plant in the world to help promote renewable resources in China. The site produces solar collectors to heat water. Said Fisher, "There are extraordinary opportunities here also for German companies, not only for large corporations but also for mid-sized and small firms." Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1732515&ResultCategoryType=2,7&NewsPageID=3>

7-15-04 GE Adding Solar Jobs

Several months after taking over AstroPower, General Electric Co. is expanding production of the solar panel assembly line. About 2 dozen employees will be hired. GE Energy, the new name of the business, employs 338 people, down from about 600 Delaware workers last year, before the company was sold. GE expects the business to become profitable by the end of the year. Said Ali Iz, "We would like to make this the next billion-dollar business for GE Energy". More on developments at:

<http://www.delawareonline.com/newsjournal/business/2004/07/15getoaddsolarjob.html>

7-15-04 Origin Energy PV Developments

Origin Energy plans to have their first solar panels available early in 2005. Designed to produce up to 5MW of PV modules per year initially, their plant will be expandable to 25MW per year should it meet all design objectives and prove Sliver technology can be applied at a mass produced scale. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7139>
Origin Energy: <http://www.originenergy.com.au/>

7-15-04 SunPower, Cypress 2nd Quarter Results

Cypress' 2nd quarter 2004 results include coverage of SunPower Corporation, under Cypress Subsidiaries, at: <http://www.stockhouse.com/news/news.asp?tick=CY&newsid=2367727>

7-15-04 Solar at Arizona Airport

The Hualapai Tribe of Arizona has been awarded a \$2M grant from the federal government to build a solar energy project to improve and expand its airport, Grand Canyon West. The grant will finance a 250-kW PV system. Story at: <http://www.azcentral.com/news/articles/0715indian-solar15.html>

7-15-04 U.S., Energy Tax Legislation

The probability of legislation passing that includes energy tax credits is decreasing since Congress has yet to appoint conferees to reconcile differences between the House version (H.R. 4520) and the Senate version (S. 1637) of bills containing these provisions. More information at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7138>

7-15-04 U.S., FY 2005 Energy Appropriations

According to Washington reports, the Senate is waiting for the House to send them an Omnibus bill that rolls up most of the FY 2005 Appropriations bills into one, though Senator Domenici has mentioned that the Energy & Water Appropriations subcommittee might mark-up next week.

7-14-04 Germany, PV Outsourcing

Says SolarWorld AG CEO Frank Asbeck, "Manufacturing photovoltaic solar panels and cells involves IT and semiconductor technology. India has inherent advantages in technology and we are looking at big investment here." ... "We are looking for partners who can do the processing work for solar panels for us and India fits the bill." More information, and other companies' outsourcing plans, are covered in the story through Solarbuzz

<http://www.solarbuzz.com/News/Newspage.asp> and SolarAccess

<http://www.solaraccess.com/news/index.jsp> at:

<http://sify.com/finance/fullstory.php?id=13521820>

7-14-04 PV Perspectives

In an interview by Jim Callihan with Javier Gorbena, CEO and President of Isofoton, Gorbena offers insight into the complicated relationship between solar PV supply and competing markets throughout the world. Highlights at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7124>

Isofoton: <http://www.re-access.com/partner/energyoutfitters/isofoton.html>

<http://www.isofoton.es/html/ingles/compania.htm>

7-14-04 PV and Hydrogen

In coverage of the ASES meeting in Portland, Oregon, by SolarAccess, Julia Davis reports that Richard Schoen talked about the use of roof-scape integration of PV-hydrogen at the Sylmar Frito-Lay Distribution Center, as well as similar plans for the future. Coverage at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7130>

7-14-04 Nanostructured PV Cells

A description of Michael McGehee's project on nanostructured PV cells under the Global Climate & Energy Project at Stanford University can be downloaded at: <http://gcep.stanford.edu/>

7-14-04 Quantum Nanorods

Says Todd Krauss, principal author of this research reported in Physical Review Letters, "We've found that while perfect nanorods have all this wonderful potential, in reality the current manufacturing process has a serious flaw that gives the rods a charge, and it is this charge that we expect will seriously degrade their usefulness." Press at:

<http://www.physlink.com/News/071304QuantumNanorods.cfm>

7-14-04 PG&E Renewables

Pacific Gas and Electric Company announced it plans to issue a Request for Offers on July 15 to solicit renewable energy on behalf of its customers. Press at:

http://www.pge.com/news/news_releases/q3_2004/040709.html

More on California Utilities Renewables:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1731152&ResultCategoryType=2.7&NewsPageID=3>

7-14-04 Long-term Energy Supplies [Tom McMahon]

An article in Physics Today by Paul B. Weisz speaks to basic choices and constraints on long-term energy supplies. The article includes a section on "constraints on solar energy use".

Source: <http://www.physicstoday.org/vol-57/iss-7/p47.html>

7-14-04 R&D 100 Award

Among this year's most significant innovations, as judged by Research & Development (R&D) Magazine to receive an R&D 100 award, are light and flexible thin-film CIGS PV modules which can be manufactured in various sizes and have a compact, foldable design that allows for easy deployment, transport and storage. This R&D 100 award is shared by NREL, Global Solar Energy and ITN Energy Systems. Press at:

http://www.nrel.gov/news/press/2004/3404_technologies_lauded.html

7-14-04 Konarka Honors

Konarka Technologies announced its inclusion on the AlwaysOn(tm) (AlwaysOn™ is a trademark of Konarka Technologies, Inc.) Top 100 Private Companies list for the 2nd consecutive year.

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040713005213&newsLang=en

Konarka: <http://www.konarka.com/>

AlwaysOn: <http://www.alwayson-network.com/>

7-14-04 Fronius Inverter Display Capability

Fronius USA Solar Electronics Division has a number of new communications options for their Fronius IG series of grid-tied inverters. Information at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7118>

Fronius: <http://www.solaraccess.com/marketplace/compdetail?compid=1693>

7-14-04 SolarOne Move [Moneer Azzam]

SolarOne(tm) (SolarOne™ is a trademark of SolarOne Solutions) has moved to a new facility, which consolidates product operation into a flex space allowing for testing, assembly, design, and marketing. The company has also moved from a subsidiary status to become its own legal entity. Press at SolarOne: <http://www.solarone.net/News/>

7-14-04 Renewables Directory

Research and Markets announced the addition of the Renewables Manufacturers Directory (Database) 2004 to their offering. Press at: http://biz.yahoo.com/bw/040714/136037_1.html

Research and Markets: <http://www.researchandmarkets.com/>

7-14-04 More on APS Solar Program

The Solar Energy Industry Association applauded the recent announcement by Arizona Public Service Company that APS is doubling its Environmental Portfolio Standard Credit Purchase Program for 2004 from \$1 million to \$2 million. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7123>

APS solar program: http://www.aps.com/my_community/Solar/eps.html

SEIA: <http://www.seia.org/>

7-14-04 U.S., FY 2005 Energy Appropriations

According to Environment and Energy Daily (subscription), the Chairman of the Senate Appropriations Committee, Ted Stevens, told reporters that he expects the House to initiate and deliver an omnibus spending bill in September, saying the only way he expects work to be completed on the 13 spending bill this year is for the House to take the lead, with an \$821 billion discretionary limit.

7-14-04 U.S., Agriculture Bill Renewables

The House passed its version of the FY 2005 Agriculture appropriations bill, including an amendment that restores the Renewable Energy Program to the \$23 million level authorized in

the farm bill. The renewable program provides grants and loans to help farmers and ranchers develop renewable energy projects and make energy efficiency improvements.

7-13-04 Solar Power and Alternative Energy Concepts [Charles Crosson, Charlie Gay]

Per this article, "The more immediate drivers for the interest in alternative energy today are technological improvements and declining costs - in other words, qualities that appeal to the venture capitalists of Silicon Valley and others looking for new opportunities." See coverage of Konarka Technologies, United Solar Ovonic, Nanosys, Miasolé, and others at:

http://news.com.com/Energy+heats+up+high+tech/2009-7337_3-5263772.html

Konarka: <http://www.konarkatech.com/>

Nanosys: http://news.com.com/Nanosys+files+papers+for+IPO/2100-7337_3-5198913.html?tag=nl

United Solar Ovonic: <http://www.uni-solar.com/>

Miasolé: <http://www.miasole.com/contact.asp>

7-13-04 NSF PV Project Awards

For information on NSF projects related to photovoltaics research, browse:

<http://www.nsf.gov/awardsearch/progSearch.do;jsessionid=EAD85139043127B1113262A744258258?SearchType=progSearch&page=2&QueryText=photovoltaic&ProgOrganization=&ProgOfficer=&ProgEleCode=&ProgRefCode=&ProgProgram=&ProgFoaCode=&Search=Search#results>

7-13-04 NASA SBIR & STTR 2004 Solicitation

Information on NASA's SBIR and STTR 2004 Program Solicitations, 7 July 2004 to 9 September 2004, can be found at: <http://sbir.gsfc.nasa.gov/SBIR/sbirsttr2004/solicitation/index.html>

For information on available topics, see for example Photovoltaic Conversion under Power & Energy at: <http://sbir.gsfc.nasa.gov/SBIR/sbirsttr2004/solicitation/taxonomy.html>

or, http://sbir.gsfc.nasa.gov/SBIR/sbirsttr2004/solicitation/SBIR/TOPIC_X2.html

To search for abstracts of past awards, use: <http://sbir.gsfc.nasa.gov/SBIR/abstractarch.htm>

7-13-04 San Diego Gas & Electric Resource Plan

San Diego Gas & Electric filed the first annual update to its long-term resource plan. The plans calls for accelerated purchases of renewable energy, such as wind and solar power. Story at:

<http://biz.yahoo.com/pz/040712/60641.html>

SDG&E: <http://www.sdge.com/index.shtml>

7-13-04 Arizona's Power Supply (Bud Annan)

Says Governor Janet Napolitano, "The groundwork for large-scale solar energy production already exists in Arizona. This free resource literally falls out of the sky more than 300 days per year, and there exist vast tracts of vacant land to site solar collectors." "Clearly, if we commit ourselves to tapping into clean and renewable energy sources like solar power, Arizona can ensure it has enough reliable power to keep up with its growth, and become a world leader in solar energy production."

See Viewpoints in the Arizona Republic on July 11 at:

<http://www.azcentral.com/arizonarepublic/archive/sunarchive.html>

7-13-04 More on the Western Governors' Clean Energy Initiative [Mark Mehos]

Western governors agreed unanimously on June 22nd to explore opportunities to develop "a clean, secure and diversified energy system for the West and to capitalize on the region's immense energy resources." The energy resolution adopted by the Governors' Association sets a preliminary goal of increase the energy efficiency of energy use in the West by 20%, and aims to develop 30,000 MW of clean energy in the West by 2015. See press at DOE-EERE Network News: http://www.eere.energy.gov/news/news_detail.cfm/news_id=6960

7-13-04 China, Solar Power Station

According to this article, the largest PV system in Asia will be installed in the Shenzhen International Garden and Flower Exposition (SIGFE) Park and start operation in mid-August. A subsidiary of the Institute of Electrical Engineering under the China Academy of Science is the builder of this power station, with installed capacity of over 1 MW. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1730752&ResultCategoryType=2,7&NewsPageID=3>

Garden & Flower Exhibition:

<http://www.environmentawards.net/sage/news/news.php?docid=00386>

7-13-04 Romania, Renewables Symposium

The international symposium of the Balkan Environmental Association on renewable energy and sustainable development takes place in Tulcea, Romania 23-25 September. Topics include solar energy, wind energy, biomass and geothermal energy. More information at:

http://dbs.cordis.lu/cgi-bin/srchidadb?CALLER=NHP_EN_NEWS&ACTION=D&SESSION=&RCN=EN_RCN_ID:22324

7-13-04 REEEP Standards

ISPQ-Europe is initiating a Regional Renewable Energy and Energy Efficiency Standards Network in the APEC-CORE-SARI-ASEAN region. The main purpose of the project is to harmonize regional standards and to promote voluntary participation and adoption to reduce the trade barriers and attract long-term commercial investment. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7109>

7-13-04 Ballard's 30kW Ecostar Power Converter

Ballard Power Systems introduced its 30kW Ecostar(tm) (Ecostar™ is a trademark of Ballard Power Systems), power converter specifically designed for PV applications. Story at:

<http://www2.ccnmatthews.com/scripts/ccn-release.pl?current/0713008n.html>

Ballard: <http://www.ballard.com/>

7-13-04 U.S., Agriculture Bill Renewables

Today, the House will probably consider an amendment proposed by Rep. Marcy Kaptur to the FY 2005 Agriculture appropriations bill, H.R. 4766, to bring the Renewable Energy Program back to the \$23 million level authorized in the farm bill. It's currently at \$15 million in the pending bill.

7-12-04 Germany, Thin-film "Green Field" Installation

The managing directors of GP Solarpark II GmbH & Co. KG held the groundbreaking for their 1-MW green field site solar power plant at Bittenwiesen. Phonix SonnenStrom AG is constructing the solar power farm on 4.6 hectares of former agricultural land leased by GP Solarpark II GmbH & Co. KG. 10,050 Mitsubishi Heavy Industries 100 Watt (MA 100) thin-film (amorphous silicon) modules will be utilized. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUPR164.htm>

Phonix SonnenStrom: <http://www.SonnenStromAG.de/>

Mitsubishi Heavy Industries MA 100: http://www.mhi.co.jp/power/e_a-si/index.html

7-12-04 Germany, Solon AG Capital

Solon AG has successfully raised new capital by issuing 3.3 million new shares, which has provided the company with additional capital for its planned expansion of module production capacity by 50-60 MW. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUMA45.htm>

Solon AG: <http://www.solonag.de/>

7-12-04 BHEL PV Exports

Bharat Heavy Electricals Limited has a large contract for the supply of monocrystalline solar cells for S.E. Projects, Italy. Story at: <http://in.news.yahoo.com/040712/43/2ewoj.html>
BHEL: <http://66.39.99.160/bhel/>

7-12-04 Germany, Sunways Inverter Installations

Success of the Sunways Solar Inverter NT installations is covered at Solarbuzz:
<http://www.solarbuzz.com/News/NewsEUPT23.htm>
Sunways: http://www.sunways.de/en/press/pm_overview.php

7-12-04 Canada, Ballard's Solar Partnerships

Ballard Power Systems has entered into 5 partnerships to enhance sales channels for its Ecostar(tm) (Ecostar™ is a trademark of Ballard Power Systems, Inc.) power converter product for PV applications. More on these partnerships at Solarbuzz:
<http://www.solarbuzz.com/News/NewsNACO228.htm>
Ballard: <http://www.ballard.com>

7-12-04 More on Aurora PV Inverter

Additional coverage of Magnetek, Inc.'s Aurora(tm) (Aurora™ is a trademark of Magnetek, Inc.) PV inverter can be found at: http://biz.yahoo.com/bw/040712/125254_1.html
Magnetek, alternative energy: <http://www.alternative-energies.com/>

7-12-04 Garage Technology Ventures and Miasolé

Garage Technology Ventures seeks new opportunities to invest in emerging technology companies at the seed stage or early stage. With its current fund, the firm has been focusing on information technology and materials science opportunities. Key first-half investments include Miasolé, a manufacturer of thin-film solar cells. Story at:
http://biz.yahoo.com/prnews/040712/sfm008a_1.html
Miasolé: <http://www.miasole.com/contact.asp>
Garage Technology Ventures: <http://www.garage.com/>

7-12-04 FY 05 Energy Appropriations

No schedule has been set for marking up the 11 remaining appropriations bills - including energy - in the Senate, with speculation that the bills will be rolled into an omnibus bill at the end of the year.

7-9-04 Solar Car Race

Eleven high-school teams start the 9th annual Dell-Winston Solar Car Challenge this weekend. Saturday, the race teams will parade their hand-made solar cars through downtown Dallas. Story at: <http://cbs.marketwatch.com/tools/quotes/newsarticle.asp?guid=%7B2474E137-EFA3-4FB8-9DE8-370C305CC291%7D&siteid=mktw&dist=nbk&symb>

7-9-04 National Convention Renewables

Organizers of the Democratic National Convention have articulated their environmental initiatives for the convention, including powering the convention with renewable energy. Convention organizers obtained Renewable Energy Credits to match the electricity needed for the FleetCenter and the media work stations during the 4 days of the convention. Story at: http://biz.yahoo.com/bw/040708/85642_1.html

7-9-04 Solar Power 2004 Conference [Julia Judd]

Organizers of Solar Power 2004 have announced that Takaski Tomita, General Manager of Sharp Corporation's Solar Group and President of the Japanese Photovoltaic Energy

Association is confirmed to speak at the conference. Other invited speakers include Governors Schwarzenegger (CA), McGreevey (NJ), and Richardson (NM); PG&E's president; Whole Foods' regional president; and actor Ed Norton. As of July 8, more than 55% of the exhibit space has been sold, and July 16 is the last day to reserve a booth at the discounted rate. See the Web site at: <http://www.solarpower2004.com/>

7-9-04 California, Solar Power Purchase RFP

The deadline is approaching for responding to the State Facility Solar Power Purchase Program RFP announced in April. Highlighted at Green Power Network: <http://www.eere.energy.gov/greenpower/financial/>

7-9-04 More on Iowa Thin Film Solar Tents

Additional coverage of the solar fabric developed for Army tents can be found at USA Today. Press through Solarbuzz at: http://www.usatoday.com/tech/news/techinnovations/2004-07-09-solarfabric_x.htm

Solarbuzz original story: <http://www.solarbuzz.com/News/NewsNAPT78.htm>

7-9-04 New Mexico Survey - Alternative Energy

According to a survey by Research & Polling, Inc., New Mexico voters strongly support developing alternative energy sources, with support running across demographic and political lines. See last bullet in the coverage at: http://biz.yahoo.com/prnews/040708/dcth049_1.html

7-8-04 More on Asirus Solar International [Douglas Parsons]

Asirus Solar International, parent company of Thai Photovoltaics Ltd., is pursuing its goals to manufacture reliable PV modules to be sold profitably while being among the least expensive. The group of 14 private investors funded the startup of TPV with about \$2M of their own funds, has secured over \$3M in cash equity commitments from their partners, and is preparing an upcoming \$10M private placement to move Asirus into commercial operations. They are presently searching for a strategic corporate investor. Asirus has acquired the entire amorphous silicon PV module production line installed for CalSolar in Sacramento, and much of the amorphous silicon PV module production assets previously installed for BP Solar LLC in Toano, Virginia. An executive summary of the Asirus project can be found at:

<http://www.asirus.com/news.asp>

Coverage at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAMA43.htm>

7-8-04 SolarWorld Sales

Germany's SolarWorld AG has achieved sales of about 90 million Euros in the period January through June 2004, with solar module sales at 43 million Euros. Revenue was more than double the 40.2 million Euros reported in the first 6 months of 2003. The company now employs 559 people, with an additional 73 being recruited during last year. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUCO131.htm>

SolarWorld: <http://www.solarworld.de/>

7-8-04 More on Fraunhofer ISE Multicrystalline Solar Cell

Scientists at Fraunhofer ISE have developed a multicrystalline PV cell with an efficiency of 20.3%. "The trick is to choose temperatures during the solar cell production process such that the electrical properties of the multicrystalline silicon are improved and a high-efficiency solar cell structure is built up at the same time", says Oliver Schultz, a doctoral candidate in Stefan Glunz's group on high-efficiency silicon cells. For coverage at SolarAccess, see:

<http://www.solaraccess.com/news/story?storyid=7080>

Fraunhofer ISE: <http://www.ise.fraunhofer.de/english/press/index.html>

7-8-04 Solar-powered Tent Award

Iowa Thin Film Technologies has been selected as one of 8 companies to receive the 2004 Army Small Business Innovation Research Phase II Quality Award. The company recently completed 3 prototype solar tents for the Army. Power output from the solar tents ranges from 200 watts to 1 kilowatt, and several tents can be joined together to increase power flow. Story at:

http://www.zwire.com/site/news.cfm?newsid=12248820&BRD=2035&PAG=461&dept_id=238101&rfi=6

Iowa Thin Film: <http://www.iowathinfilm.com/>

7-8-04 More on Eastwood PV Mounting System

Eastwood Energy announced the release of its new Sun-Link(tm) (Sun-Link™ is a trademark of Eastwood Energy Corporation) PV module mounting system for flat roofs. The customer can choose one of 4 tilt angles - 5, 10, 15, or 20 degrees. Sun-Link is compatible with all major solar modules and can be adapted to fit virtually any module. Story at:

http://biz.yahoo.com/bw/040707/75576_1.html

Eastwood: <http://www.eastwoodenergy.com/>

7-8-04 PV New Construction Toolkit [Bob Aldrich]

A free, web-based PV New Construction Toolkit from the California Energy Commission is available at: <http://www.consumerenergycenter.com/pv4newbuildings/>

7-8-04 More on UK's First PV Production Facility

Sharp Corporation officially opened its first solar module manufacturing plant in Europe. The PV production facility, at Wrexham, North Wales, will assemble monocrystalline and polycrystalline solar modules. Annual production for 2004 is predicted at 20MW and is planned to double. Solarcentury will be Sharp's preferred supplier in the UK, and has already completed a number of projects using Sharp modules. Story at:

<http://www.solarcentury.co.uk/news/newsitem.jsp?newsid=388>

In related news....

7-8-04 Solar Thermal Power

At the international conference on renewable energies in Bonn, the German Environment Minister and representatives of several Mediterranean countries agreed to a "Global Market Initiative" for introducing solar thermal power plants into the market in the earth's sun belt. German companies and research institutes are already among the developers. Construction of the first European commercial parabolic trough generating station is set to begin in Spain this year; the German companies Schott Rohrglas and Solar Millennium AG have signed an agreement for delivery of solar thermal absorbers for the parabolic trough system of the AndaSol power station amounting to 40 million Euros. Story at: http://www.german-renewable-energy.com/www/main.php?tplid=6&aktuell_id=33&PHPSESSID=383a0ccb1a476a093c19b66f3c416f5e

7-8-04 More on SHEC Solar Hydrogen

Solar Hydrogen Energy Corporation - SHEC Labs - completed its first "on sun" production of hydrogen from water using their proprietary Solar Thermal Chemical Process on June 8 and again on June 28, 2004. The hydrogen production was accomplished at the APS Solar Test and Research Facility in Tempe, Arizona. Press at: <http://www.shec-labs.com/press/releases/2004July6press.htm>

7-7-04 Konarka Backing [Hilary Ives]

Konarka Technologies, Inc. announced a significant investment from the European venture capital community as part of its recent \$18-M Series C round of financing. Partech International, Prime New Energy and Good Energies participated in the funding round, joining New Enterprise Associates, Vanguard Ventures, SDL Ventures, Presidio Venture Partners, Draper Fisher Jurvetson, Zero Stage Capital, Chevron Texaco Technology Ventures, Eastman Ventures, Ngen Partners and Ecole Polytechnique Federale de Lausanne. Konarka Press:

http://www.konarkatech.com/news_press.php

7-7-04 Renewable Energy Incubator

Leaders at the New York State Energy Research and Development Authority, High Tech Rochester, Greater Rochester Enterprise, and Rochester Institute of Technology announced the formation of the Renewable Energy Network of Entrepreneurs in Western New York. RENEW NY is a collaborative effort for identifying, incubating, and creating renewable energy companies in Western New York. More on this incubator at:

http://biz.yahoo.com/prnews/040706/nytu128_1.html

7-7-04 Asirus Solar International [Paul Maycock]

Asirus, parent company of Thai Photovoltaics Ltd, recently assembled a team of 9 key managers. The initial Asirus production facility will be located near Temecula, California. [More information in PV News, subscription, Paul Maycock, July 7 pves@pvenergy.com; for more Asirus information, contact Doug Parsons at dparsons@asirus.com]

Thai Photovoltaics: <http://www.thaiphotovoltaics.com/home.asp>

7-7-04 More on California Solar Homes Bill

The text of Senator Kevin Murray's solar homes bill, SB 1652, which would require that PV systems be included as a standard feature on 15% of new homes being built beginning January 1, 2006, increasing by 10% each year until 55% is reached in 2010, can be downloaded at:

<http://environmentcalifornia.org/envirocalifenergy.asp?id2=13122&id3=CEnergy&>. "Solarnator"

postcards are being sent to the Governor by bill supporters; see:

<http://environmentcalifornia.org/envirocalifenergy.asp?id=596&id4=ES>

7-7-04 California Energy Commission Workshop on Zero Energy New Homes [Tim Merrigan]

A workshop to encourage public input on research and market needs in the area of Zero Energy New Homes will be held July 13 in Sacramento. For more information visit:

http://www.energy.ca.gov/pier/notices/2004-07-02_wrkshp_notice.html. The workshop is

associated with a Contract Opportunity Notice announcing an upcoming targeted joint solicitation between the Buildings and Renewables areas of the Public Interest Energy Research Program.

7-7-04 Australia, PV Project

An international committee has identified Perenjori as the preferred site for a PV project to generate electricity for nearby mining projects. The committee wants Perenjori Shire to contribute \$50K and to ask the State Government to contribute about \$160K to a feasibility study. Story through Solarbuzz <http://www.solarbuzz.com/News/Newspage.asp> at:

<http://www.abc.net.au/news/newsitems/200407/s1147722.htm>

7-7-04 Australia, Commentary on Solar Research

For an article in Australasian Science on solar developments in Australia, see:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=53653430&ID=cnniw&scategory=Energy%3AAlternative&

7-7-04 REEEP Program Plans

The Renewable Energy & Energy Efficiency Partnership has released a draft of its multi-year program of work for comment by countries that support the initiative. The proposed budget is Euro 20 million to March 2008. Story and access to the proposed program at ReFocus: http://www.sparkdata.co.uk/refocus/fp_showdoc.asp?docid=92406863&accnum=1&topics=

7-7-04 Coverage of Solar 2004, Portland, Oregon

Portland will host Solar 2004, 9-14 July. Press at:

http://portland.bizjournals.com/portland/stories/2004/07/05/daily8.html?jst=b_in_hi

Solar 2004: http://www.ases.org/solar2004/s04_main.htm

7-7-04 State of Washington, Bainbridge Graduate Institute Renewable Energy [Bill Jeppesen, BEF]

Bainbridge Graduate Institute announced it has purchased Green Tags from Bonneville Environmental Foundation sufficient to offset 100% of its annual electricity usage at its administrative offices. The purchase of Green-e certified wind and solar-power certificates completes BGI's commitment to renewable energy. Press at:

<http://www.bgiedu.org/index.php?option=content&task=view&id=77&Itemid=29>

BEF: <http://www.B-E-F.org/>

7-7-04 USDA High-energy Cost Grant Program [Kevin Eber]

On June 15, Administrator Hilda Legg announced selection of 6 applications in response to the January 23 Notice of Funding Availability. The \$11.3M in grants will be awarded once the environmental reviews and other requirements are completed. The Hualapai Reservation project in Arizona will include a PV power system, and the Navajo Nation project in New Mexico will install hybrid solar and wind power systems and energy efficiency improvements in at least 50 remote homes. See EERE Network News:

<http://www.eere.energy.gov/news/archive.cfm/pubDate=%7Bd%20%272004%2D07%2D07%27%7D#7092>

USDA: <http://www.usda.gov/rus/electric/hecgp/index.htm>

7-7-04 U.S., Fiscal Year 2005 Energy Appropriations

The Senate Energy & Water Development appropriations subcommittee has postponed their markup that was tentatively set for today. The Senate Agriculture appropriations subcommittee may mark up this week, which includes provisions for the renewable energy program.

In related news...

7-7-04 Concentrating Solar Power Feasibility RFP

The deadline is coming up on July 19; official information at:

<http://www.emnrd.state.nm.us/ecmd/html/funding.htm>

7-6-04 Tomorrow's Solar Cells [Solar Today]

For an article on "Tomorrow's Solar Cells", see Solar Today, July/August 2004; abstract at:

http://www.solartoday.org/2004/july_aug04/tomorrow%27s_solar_cells.htm

For information on other articles in this issue, including utility-scale solar; utility prospects under the sun; and others, see: http://www.solartoday.org/current_issue.htm

7-6-04 Switzerland, Solar Stadium

On the roof of the Stade de Suisse in Berne, BKW FMB Energy is building a 1.3 MW solar power plant and energy platform to power the building and complex. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7064>

7-6-04 Thailand - Australia Solar Talks

Solar power will be a major topic during bilateral talks between Thailand and Australia at the joint cabinet meeting in Canberra. Story through Solarbuzz at: <http://news.ninemsn.com.au/article.aspx?id=11785>

7-6-04 California, Solar Depot

Solar Depot will hold the grand opening of its new corporate headquarters in Petaluma on July 20, with a brief dedication of its 12-kW PV system. Solar Depot is a systems integrator and wholesale distributor of solar energy equipment. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNACO227.htm>

Solar Depot: <http://www.solardepot.com/pub/index.html>

7-6-04 California, Performance-based PV RFP

The California Power Authority has issued a solar RFP for installing up to 4 MW of PV on State buildings. The RFP seeks to install systems via 3rd party ownership, maximizing available tax benefits not applicable to tax-exempt agencies, and pay per kWh produced over a 20+ year term. See this and more news at Solar e-clips:

<http://www.californiasolarcenter.org/solareclips/solareclips.html>

7-6-04 New Stock Fund

Guinness Atkinson Asset Management LLC said it has started a Global Energy Fund that will invest in traditional fossil fuel companies and also look for investments in alternative energy sources. Information at:

<http://www.reuters.com/financeNewsArticle.jhtml?type=fundsNews&storyID=5577411&ion=investing>

7-2-04 Fraunhofer Institute Solar Cell Record [Rosemarie Becker]

Scientists at the Fraunhofer Institute for Solar Energy Systems ISE are reporting a multicrystalline silicon solar cell with an efficiency of 20.3%. Press at:

<http://www.ise.fraunhofer.de/english/press/index.html>

7-2-04 Shell Solar and BZG Contract

BZG Group AG and Shell Solar have established their 1st joint PV project - a 1.8-MW array with Shell Solar modules and Siemens inverters, built in the southern German area of Hosslwang, Bavaria. Shell Solar is responsible for the management of the park, while Siemens will execute the maintenance. Inauguration of the solar park is planned for July 9.

http://www.shell.com/home/Framework?siteId=shellsolar&FC2=/shellsolar/html/iwgen/news_and_library/press_releases/2004/zzz_lhn.html&FC3=/shellsolar/html/iwgen/news_and_library/press_releases/2004/hoeslwang_0107.html

Shell Solar: <http://www.shell.com/home/Framework?siteId=shellsolar>

Coverage at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR163.htm>

7-2-04 Interstate Renewable Energy Council News [Jane Pulaski]

See IREC's newsletter for a variety of news items such as Million Solar Roofs, State developments and incentives, schools going solar, and other topics at

<http://irecusa.org/index.html>. For example, Pennsylvania has announced \$5M will be available

the 2nd year of the Pennsylvania's Energy Harvest Program. And, Ali Iz-- GE Energy USA will be a Delaware Million Solar Roofs partner.

7-2-04 Renewables RFP

The Los Angeles Department of Water and Power announced it has issued a request for proposals for renewable energy projects. LADWP is seeking to acquire up to 1,320,000 MWh per year of renewable energy by the end of 2010. Story at:

http://biz.yahoo.com/bw/040701/15521_1.html

LADWP:

http://www.ladwp.com/ladwp/areaHomeIndex.jsp?contentId=LADWP_DOINGBIZ_SCID

7-2-04 Renewables Request for Offers

San Diego Gas & Electric issued a request for offers to increase its portfolio of energy from renewable resources including wind, solar, and geothermal. SDG&E is attempting to exceed the state's target of supplying 20% of its customers' energy from renewable resources by 2010 rather than by 2017. Information at: <http://biz.yahoo.com/pz/040701/60227.html>

7-2-04 California Renewables Guidebooks [Bob Aldrich]

A newly approved Guidebook for the Energy Commission's Emerging Renewable Rebate Program and associated forms are available at the Commission's Website at:

<http://www.energy.ca.gov/renewables/documents/>

7-2-04 California Solar Homes

A new statewide poll finds that 7 in 10 Californians support Governor Schwarzenegger's campaign goal to build half of all new homes with solar power. More on this poll at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAGO187.htm>

California Environment: <http://www.environmentcalifornia.org/>

7-2-04 India, More on West Bengal Solar

India's largest stand-alone solar plant at Mousuni Island in West Bengal was built by Bharat Heavy Electricals Limited in association with the West Bengal Renewable Energy Development Agency. BHEL plays a major role in island electrification programs in the country. Coverage at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7054>

BHEL: <http://66.39.99.160/bhel/>

West Bengal Renewable Energy Development Agency:

<http://www.tripurainfo.com/classifieds/advt/spg/SPG.html>

7-2-04 Montana, Off-grid Renewables

The Eagle Vista Ranch in Livingston is powering its horse-riding facility using a 5,280-W solar array comprising 32 Sharp 165-W solar modules, and 2 Whisper SWWP H40 wind generators, with 2 Xantrex inverters/chargers and GNB Absolyte IIP batteries. Planetary Systems installed the systems. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7029>

Planetary Systems: <http://www.planetarysystems.com/>

7-2-04 More on Solar Panel Supply

Additional coverage of solar panel supply can be found through SolarAccess

<http://www.solaraccess.com/news/index.jsp> at:

<http://www.wired.com/news/technology/0,1282,64052,00.html>

7-2-04 Fronius Newsletter

Information about the latest from Fronius regarding inverters can be found at:

http://www.fronius.com/news/view_article.php?id=68&templet=3&lng=e. Fronius intends to triple production by the end of the year.

7-1-04 Sharp's Job Creation

The Secretary of State for Wales will join dignitaries from Wales and Japan at the official opening of Sharp's new PV production facility that will create up to 100 jobs. Story through Solarbuzz <http://www.solarbuzz.com/News/Newspage.asp>

at: <http://www.eveningleader.co.uk/ihome2/detail.asp?storyid=26271&catid=%201&officeid=1>

7-1-04 DayStar Staff Expansion

DayStar Technologies, Inc. announced the appointment of Dr. Steven Aragon as Vice President of Engineering. This appointment is the first key hire associated with DayStar's planned staff expansion at its new corporate facilities in upstate New York. DayStar also announced that Jon Sharp will assume the position of Director of Operations responsible for managing the company's new production facilities. Story at:

http://biz.yahoo.com/prnews/040701/sfth018_1.html

DayStar: <http://www.daystartech.com/index.html>

7-1-04 GT Equipment Technologies Silicon Research

GT Equipment Technologies recently received a \$100K SBIR award from DOE to keep working on a process to use less expensive, metallurgical-grade silicon for solar. More on this company at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1725529&ResultCategoryType=2,7&NewsPageID=3>

7-1-04 California, Solar Roof

A new 30.7-kW roofing system manufactured by Solar Integrated Technologies and installed by Scholten Roofing Service has been installed at the Davis Food Co-op. More on this PV system through Solarbuzz <http://www.solarbuzz.com/News/Newspage.asp>

at: <http://www.davisenterprise.com/articles/2004/06/30/news/184new1.txt>

7-1-04 World Resources Institute Request for Information [Green Power Network]

The World Resources Institute, on behalf of its partnerships, has issued a Request for Information regarding Renewable Energy Certificates. Selected companies are interested in meeting their green power requirements through Renewable Energy Certificates. WRI's intention in issuing the RFI is to compile a complete information base on behalf of the companies to enable them to make decisions by late summer. Details at:

http://www.eere.energy.gov/greenpower/financial/pdfs/0604_wri_rfi.pdf

Highlighted at the Green Power Network: <http://www.eere.energy.gov/greenpower/home.shtml>

7-1-04 Sacramento Municipal Utility District Solicitation [Green Power Network]

The SMUD Renewables Power Purchase Solicitation 040055.CJB deadline is August 9. SMUD active solicitations can be found at: <http://www.bids.smud.org/sys/user/Sys056.asp>

Highlighted at the Green Power Network: <http://www.eere.energy.gov/greenpower/home.shtml>

<http://www.eere.energy.gov/greenpower/financial/>

7-1-04 More on ACORE Financiers Meeting [Mike Eckhart]

Over 350 bankers and investors met 23-24 June to explore financing of renewable energy in America in a Finance Forum co-sponsored by Acore and Euromoney. The Global Leadership Award was given to Hermann Scheer-member of the German Bundestag, president of

Eurosolar, Chairman of the World Council for Renewable Energy, and leader of renewable energy policy in Europe; the National Leadership Award was given to New Mexico Governor Bill Richardson; the State Leadership Award went to New York Governor George Pataki; and the Corporate Leadership Award went to GE Wind Energy President Steven Zwolinski. [ACORE press] ACORE: <http://www.AmericanRenewables.org/>

7-1-04 21-Day Solar Spinach

Marc Baldo's team at MIT isolated a variety of photosynthetic proteins from spinach and placed them between 2 layers of conducting material, which produced an electrical current under light. The prototype cells are about 12% efficient, but last only 21 days so far.

<http://www.nature.com/nsu/040621/040621-9.html>

JUNE

6-30-04 EPV NSF SBIR Award

EPV received a \$100K SBIR Phase 1 award for its proposal "An Efficient, Linear, Free Radical Source for Compound Film Deposition", effective 1 July 2004 through 31 December 2004. Successful demonstration in Phase 1 could lead to a Phase 2 effort to apply the source in the preparation of active CIGS devices and to scale up and evaluate the source in a large-area setting. EPV Press at: <http://www.epv.net/news/news.htm>

6-30-04 DayStar Coverage of New York Move

DayStar's press coverage of their move to New York can be found at: <http://www.daystartech.com/press062104.htm>

6-30-04 ISET CIGS PV SBIR Award

ISET was awarded an MDA SBIR Phase 1 contract award for development of Thin Film CIGS PV arrays on lightweight and flexible ceramic substrates. ISET press: <http://www.isetinc.com/news.html>
SBIR Awards (see ISET): <http://www.dodsbir.net/selections/abs041/mdaabs041.htm>

6-30-04 Thin-film PV Encapsulant Research

Cornerstone Research Group was selected for an MDA SBIR award for a proposal to develop and evaluate a novel encapsulation coating that protects thin-film PV cells on a high altitude airship. See Cornerstone at: <http://www.dodsbir.net/selections/abs041/mdaabs041.htm>

6-30-04 Triton Systems CIGS PV SBIR Award

Triton Systems, Inc. was selected for an MDA SBIR award for a proposal to demonstrate the feasibility of developing high-efficiency CIGS solar cells employing a proprietary method to produce a high-temperature capable, lightweight substrate(s) suitable for monolithic integration. See Triton at: <http://www.dodsbir.net/selections/abs041/mdaabs041.htm>

6-30-04 Blue Photonics Multijunction PV SBIR Award

Blue Photonics, Inc. was selected for an MDA SBIR award for a proposal to explore the feasibility of using InGaN allow materials to form individual subcells in a multijunction solar cell. Lawrence Berkeley National Laboratories will provide expertise on the compounds. See Blue Photonics at: <http://www.dodsbir.net/selections/abs041/mdaabs041.htm>

6-30-04 More on Heliovolt CIGS PV SBIR Award

Heliovolt Corp. was selected for an MDA SBIR award for a proposal to demonstrate the feasibility of their FASST (tm) process for Airship applications using their CIGS model. See Heliovolt at: <http://www.dodsbir.net/selections/abs041/mdaabs041.htm>

6-30-04 California, Renewable Hydrogen Roadshow

Stuart Energy's Renewable Energy Roadshow will appear 1-5 July at the Marin County Fair, with one of the components being the Renewable Stuart Energy Station, a water electrolysis-based hydrogen station. Solar Integrated Technologies will display their solar canopy that will power performances on the Eco-Dome stage. The canopy will also fuel the SES system. More on the Show at: http://biz.yahoo.com/prnews/040630/law021_1.html
Stuart Energy: <http://www.stuartenergy.com/>
Marin Fair: <http://www.marinfair.org/>
See also "Hydrogen from Electrolysis" at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6964>

6-30-04 Solar Jobs in Canada

Two hundred jobs will be created by the end of next year at Canada's solar cell manufacturing plant. This and more renewables news at ReFocus:

http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=14289493&accnum=1&topics=

Coverage of Canadian solar plant at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6987>

See also EERE Network News, "Innovative Solar Manufacturing Plant Opens in Canada" [Kevin Eber] at:

<http://www.eere.energy.gov/news/archive.cfm/pubDate=%7Bd%20%272004%2D06%2D30%27%7D#6961>

6-30-04 World Energy Use

BP's report on world energy use is reviewed in ReFocus at:

http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=35883731&accnum=1&topics=

According to the coverage, BP sells 71 MW a year of solar panels.

6-30-04 More on Arizona Public Service PV Incentives

APS plans to extend their EPS Credit Purchase Program, which provides incentives to APS customers. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=7013>

APS: http://www.aps.com/my_community/Solar/eps.html

6-30-04 More on Solar for the Army

Additional coverage of solar technology for the Army from Iowa Thin Film Technologies, Konarka Technologies, and others, can be found at:

http://www.wired.com/news/technology/0,1282,64021,00.html?tw=wn_tophead_1

6-30-04 Renewable Energy Finance Forum

Coverage of activities at the Renewable Energy Finance Forum in New York, cosponsored by ACORE and Euromoney Institutional Investor, can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7015>

ACORE: <http://www.americanrenewables.org/>

Euromoney: <http://www.euromoney.com/>

6-30-04 National, European Solar Prizes

Organizations and businesses that have shown outstanding service to the utilization of solar energy are eligible for the 2004 EUROSOLAR awards. For more information, see SolarAccess:

<http://www.solaraccess.com/news/story?storyid=7017>

EUROSOLAR: <http://www.eurosolar.org/new/index.shtml>

6-30-04 Homeland Energy [Chuck Feinberg]

Homeland Energy Resource Development, Inc. announced that Nick Stecky and Jim Rogers have recently joined the company as Senior Consultants. Said John Fox, President, "We are proud to have such highly talented and regarded professionals as Nick and Jim working with us. Their technical abilities and professional experience will serve our clients well and enable Homeland Energy to further develop business in the New York and New Jersey region." [Email press release cfeinberg@homeland-energy.com] Homeland Energy: <http://www.homeland-energy.com/>

6-30-04 Sharp Special Report

Sharp's Environmental Report 2004 includes a special report on the "Decentralized Solar Power Project" in the village of Noyon in Mongolia. See page 7 of the report at: <http://sharp-world.com/corporate/eco/report2004/>

6-30-04 U.S., FY 2005 Energy Appropriations

The Senate Energy and Water Appropriations Subcommittee mark-up may be next week.

6-29-04 Solarforce Silicon Ribbon Process

Solarforce plans to start production of 150 micron thin wafers using an innovative crystalline silicon

ribbon technology next year. See Photon International, June 2004 at: http://www.photon-magazine.com/news/news_2004-06_eu_feat_Solarforce.htm

6-29-04 AstroPower's Spanish Unit

AstroPower Inc. will auction its Spanish unit July 9 under a court ruling in the Chapter 11 case. Elecnor SA was approved as the opening bidder for the planned auction under an order signed by the Bankruptcy Chief Judge. More information through Solarbuzz at:

<http://news.morningstar.com/news/DJ/M06/D28/200406281200DOWJONESDJONLINE000533.html>

6-29-04 Module Test Laboratory

Austrian research and test center Arsenal GmbH opened a test laboratory in Vienna for components of PV and solar thermal systems. The new laboratory can also test inverters. The test facilities are designed for certification as well as for product development. Story at Photon International:

http://www.photon-magazine.com/news/news_2004-06_eu_sn_Arsenal.htm

6-29-04 Our Solar Future [Holly Thomas, Susan DeVico]

Find the National Public Radio show Living on Earth, Our Solar Future at: <http://www.loe.org/>

Transcript:

http://www.loe.org/ETS/organizations.php3?action=printNewestContentItem&orgid=33&typeID=18&emplatID=56&User_Session=fcd63d30c9c5c5f0d2069c4e4714964d

6-29-04 PV Activities in Japan [Osamu Ikki]

The Ministry of Economy, Trade and Industry (METI) announced the "Long-term Energy Supply and Demand Outlook for 2030", with 4 scenarios, and "the strategy for creating new industry". Details by subscription at RTS Corporation, email: ikki@rts-pv.com.

6-29-04 Xantrex European Team

Xantrex Technology has appointed Jim Harre as the new managing director for Europe and Africa. And, Xantrex has established a new Projects Business Team, led internationally by Bernd Kohlstruck, with Andreas Vondung as the project director in Europe. Xantrex is now entering the European market with 2 new inverters. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUUCO130.htm>

Xantrex: <http://www.xantrex.com/>

6-29-04 California, Open Hand Manufacturing Solar [Susan DeVico]

Open Hand Manufacturing, Inc., is dedicating a 68-kW solar electric system today at its manufacturing facility in Oakland. Mayor Jerry Brown is officiating at the dedication of the system, installed by PowerLight and comprising 360 modules. PowerLight press:

<http://www.powerlight.com/company/press-releases/2004/06-28-04-OpenHand.shtml>

6-29-04 California, Harley-Davidson Solar

Santa Barbara Harley-Davidson will have a 75-panel, 3,000 square foot, 37.5-kW solar electric system on the roof of their dealership, installed by Solar Electrical Systems of Westlake Village.

Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1724274&ResultCategoryType=2,7&NewsPageID=3>

6-29-04 California, Vintage House Solar

Sonoma's Vintage House senior center joined with Solar Works to install a 32.5-kW PV system to supply nearly 40% of the center's electricity needs. The system covers the House's roof with 240 BP Solar 160-W modules. Story through Solarbuzz at:

<http://www.sonomanews.com/articles/2004/06/28/news/business/business03.txt>

Solar Works: <http://www.solarworksca.com/>

6-29-04 India Renewables

A 1-day conference of state Power Ministers in New Delhi June 28 was to focus on power generation capacity addition through grid-interactive renewable power projects, conversion of the on-going remote village electrification programme into a village energy programme, accelerated use of renewable energy in urban areas and industrial and commercial establishments, and creation of awareness of renewable technologies. Story at:

http://www.navhindtimes.com/stories.php?part=news&Story_ID=062920

6-29-04 U.S., FY 2005 Energy Appropriations

The Senate Energy and Water Appropriations Subcommittee mark-up may be next week.

In related news....

6-29-04 BEF-Vision Quest Green Tags [Bill Jeppesen]

The Bonneville Environmental Foundation announced it has agreed to purchase a renewable energy product from Vision Quest, Canada, in the form of "Green Tags", which represents the environmental benefits of renewable energy generation and is a marketable product that businesses and individuals can use to offset harmful impacts associated with their electricity use. The Green Tags product allows the purchase of renewable energy to cross state, provincial and national borders. Bonneville Environmental Foundation: <http://www.B-E-F.org/>

Vision Quest: <http://www.visionquestwind.com/index.asp>

6-28-04 PV Overview

"Photovoltaic Cells: Power at a Price" and "Power from the Sun". For an overview of PV cells, including activities at a number of research centers such as Georgia Tech, see two articles in Chemical & Engineering News at: <http://pubs.acs.org/cen/coverstory/8225/8225solarenergy1.html>
<http://pubs.acs.org/cen/coverstory/8225/8225solarenergy.html>

6-28-04 General Electric in Germany

General Electric officially opened its new European Global Research Center in Garching near Munich. By 2005, the new center will have 150 scientists and engineers conducting research in 4 main areas: alternative energy generation, particularly hydrogen, biomass and fuel cells; electrical systems for renewable energy sources such as solar, wind and water; specialized sensors; and advanced medical imaging. Story at: http://biz.yahoo.com/bw/040628/285444_1.html

GE Press: http://www.ge.com/cgi-bin/cnn-storydisplay_nu.cgi?story=/www/bw/webbox/bw_062804/241804997.htm&strip=1-imestamp=1&noeditor=1&nohrule=1&header=%2Fwww%2Fbw%2Fge%2Ftest-top.htm&footer=%2Fwww%2Fbw%2Fge%2Ftest-bot.htm&textcolor=%23000000&bqcolor=%23FFFFFF&linkcolor=%230000FF&vlinkcolor=%23551A8B

6-28-04 SunTechnics Project

SunTechnics Solartechnik GmbH will soon complete the first 4-MW section of a 7.4-MW solar array project at the site of a former coal mine in Gottelborn, southern Germany. The PV arrays will cover the equivalent size of about 20 soccer fields, with 23,500 PV modules connected with 16 central 250-kW inverters. The entire project is expected to be completed in August 2005. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR162.htm>

SunTechnics: <http://www.suntechnics.de/>

6-28-04 More on Western Governors Association Resolution

A working group will be formed to determine how to reach the energy goal of 30,000 MW of clean energy by 2015 and a 20% improvement in energy efficiency by 2020, and ensure the region has the necessary generation and transmission capacity. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6999>

6-28-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Appropriations: The full House passed the EWD Appropriations bill H.R. 4614 on June 25. See House Appropriations Committee report H.R. 108-554, with renewables on pages 85 forward. Partial text: "The total Committee recommendation for solar energy in fiscal year 2005 is \$82,733,000, an increase of \$2,400,000 over the budget request. The Committee believes that the Department continues to underfund Concentrating Solar Power (CSP) technologies despite recent analyses documenting the potential of these technologies. The additional funds are provided to conduct CSP research at a level comparable to fiscal year 2004. The Committee directs Solar Heating and Lighting subprogram to be equally split between the Heating and Lighting research areas."

6-28-04 WWK Metrology Analysis Module

Wright Williams & Kelly, Inc. announced it will unveil the next generation of its Cost of Ownership and Overall Equipment Efficiency software, TWO COOL(R) (TWO COOL® is a registered trademark of Wright Williams & Kelly, Inc.) v.3.1 at SEMICON West San Francisco, 12-14 July. Information at: http://biz.yahoo.com/bw/040628/285313_1.html
WWK: <http://www.wwk.com/>

6-28-04 Solar Hydrogen

Funding of C\$522,000 from the Canadian government will allow the University of Victoria to purchase equipment for testing fuel cells and storing solar- or wind-generated hydrogen. This and more renewables news at ReFocus News-in-Brief at: http://www.sparksdata.co.uk/refocus/fp_showdoc.asp?docid=63599795&accnum=1&topics=

In related news...

6-28-04 Solar / Gas Power Plant

One of the developers of the 740-MW High Desert project in Southern California is planning a \$365-million, 500-MW hybrid gas/solar project for a joint powers authority formed by the cities of Victorville and San Marcos. The project would include a 450-MW gas-fired, combined-cycle plant and a 50-MW parabolic trough solar thermal plant at the Southern California Logistics Airport in Victorville. The solar plant would use the next generation parabolic trough technology used as the Kramer Junction Solar Energy Generating Stations. Story at: http://www.platts.com/Magazines/POWER/Power%20News/2004/061704_5.xml

6-28-04 Nevada Power's Renewables - Solargenix Project

Project leaders are hoping to wrap up financing by August for the El Dorado Solar Generation Station in Clark County to be built by Solargenix. The project will see delays from its expected March 2005 online date, but the Western area manager for Solargenix is optimistic about the financing. Story at: http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=53228507&ID=cnniw&scategory=Energy%3AAlternative&

6-25-04 Printable Solar Cells

See the article on "Solar-Cell Rollout" by Peter Fairley, July/August 2004 at the MIT Technology Review: <http://www.technologyreview.com/articles/fairley0704.asp>

6-25-04 Shell Solar Modules

Shell Solar GmbH launched a new range of solar electric modules called Shell PowerMax(tm) (PowerMax™ is a trademark of the Shell Solar GmbH) at the Intersolar tradeshow in Freiburg. Shell PowerMax(tm) (PowerMax™ is a trademark of the Shell Solar GmbH) Ultra is based on mono-crystalline silicon. Shell PowerMax(tm) (PowerMax™ is a trademark of the Shell Solar GmbH) Plus is based on multi-crystalline silicon. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUPT22.htm>

Shell Press:

http://www.shell.com/home/Framework?siteId=shellsolar&FC2=/shellsolar/html/iwgen/news_and_library/press_releases/2004/zzz_lhn.html&FC3=/shellsolar/html/iwgen/news_and_library/press_releases/2004/powermax_2406.html

6-25-04 Engency Portfolio of Residential Customers [Anthony Scott Jones]

Engency Inc. has completed the final phase of its first portfolio of residential solar customers. One hundred California residential customers will be presented in a turnkey package to the solar manufacturer wishing to gain instant market share. Customers are pre-sold and aligned with all financing options. The portfolio customers will purchase a standardized solar PV kit. [Engency Press, asj@veritaslp.com]

Engency: <http://www.engency.com/>

6-25-04 BP Solar in Government Programme

The U.K. Government recently announced its latest £2 million funding programme to add 620 kWp of solar power throughout the U.K., and BP Solar is involved in half of the initiatives. BP Press at:

<http://www.bpsolar.com/DisplayNews.cfm?id=93>

6-25-04 Rhode Island Clean Energy

The General Assembly passed a bill - the Clean Energy Act - that would increase the amount of green power to 16% by 2020. The bill requires that at least 3% of retail electricity sales in the state come from renewable resources in 2007, increasing after that. Stories at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=53109854&ID=cnniw&scategory=Energy%3AAlternative& and SolarAccess: <http://www.solaraccess.com/news/story?storyid=6998>

6-25-04 Colorado Renewable Energy Conference

Colorado's largest renewable energy meeting starts today in Denver. The 2004 Colorado Renewable Energy Conference will be at the University of Denver through Sunday. Story in today's Daily

Camera at: http://www.dailycamera.com/bdc/state_news/article/0,1713,BDC_2419_2989627,00.html

6-25-04 India, BHEL Solar Power Plant

Bharat Heavy Electricals Ltd has commissioned the country's largest stand-alone solar power plant at Mousuni Island in West Bengal. The 105-kW plant was commissioned in association with West Bengal Renewable Energy Development Agency. Story at:

<http://sify.com/finance/equity/fullstory.php?id=13505493>

Coverage also at Solarbuzz: <http://www.solarbuzz.com/News/NewsASPR117.htm>

BHEL: <http://66.39.99.160/bhel/>

6-25-04 Thailand Electricity Interest in Solar Company

Ratchaburi Electricity Generating Holding is interested in taking a 20% stake in Solatron Co., which recently won a 1.4-billion-baht contract from the Provincial Electricity Authority. Story at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=53051082&ID=cnniw&scategory=Energy%3AAlternative&

6-25-04 California, Solar Project to Reduce Carbon Emissions

PV has been installed on carports and on the roof of a water district building in Santa Clara County as part of a \$2.4M project sponsored by the U.S. EPA and the Santa Clara Valley water district to reduce carbon dioxide emissions. Fat Spaniel Technologies will monitor the water district's solar energy system with their PV2Web solar monitoring solution. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6992>

6-25-04 California, Solar Homes

The California Assembly Housing Committee passed a bill that would establish a minimum standard for builders to install PV systems on 15% of new single-family homes beginning in 2006, increasing to 55% by 2010. Stories at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO185.htm> and SolarAccess: <http://www.solaraccess.com/news/story?storyid=6995>

6-25-04 More on DayStar Move

DayStar said in late March it was moving its expanding operations to Golden, Colorado; however, incentives took them to New York. More on this move at: http://pei.pennwellnet.com/articles/article_display.cfm?Section=ONART&Category=INDUS&PUBLIC ATION_ID=6&ARTICLE_ID=207055
<http://www.sacbee.com/content/business/story/9763763p-10686537c.html>

6-25-04 Clean Energy: Solar Photovoltaics (Amy Cole)

Information on "Clean Energy: Solar Photovoltaics", a report from Research and Markets, can be found at: <http://www.researchandmarkets.com/reports/c2419/>
Also, information on their Renewables Manufacturers Directory can be found at: <http://www.researchandmarkets.com/reports/c2409/>

6-25-04 Canada, Renewable Energy Responses

Ninety companies expressed interest in producing renewable energy for Ontario totaling 4,400 MW - 15 times the amount asked for, said Minister Dwight Duncan. "The response to this call has been no less than astounding". Story at: http://www.thestar.com/NASApp/cs/ContentServer?pagename=thestar/Layout/Article_Type1&c=Article&cid=1088072440337&call_pageid=968332188492&col=968705899037

6-25-04 PerfectPower New CEO

PerfectPower Inc. has hired Lynn Paige as their new CEO. Said President John Balfour, "We launched PerfectPower about four years ago, and our growth has been overwhelming. We had modest success on the internet and spent the past two years shifting our emphasis to large development projects." Lynn Paige was recruited, with skills to create the management team and supporting organization to handle growth and rapid change. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO226.htm>
PerfectPower: <http://www.perfectpower.net/>

6-25-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Appropriations, full House consideration today.

6-25-04 U.S., Energy Tax Policy

H.R. 4520, the House corporate tax bill with wind & biomass tax credits passed June 17, House Report 108-548. S. 1637, the Senate corporate tax bill (JOBS) with a \$19-billion package of energy tax incentives passed May 11, Senate report 108-192. Negotiators will now have to resolve differences before full House and Senate votes on a compromise, followed by the President's action.

6-24-04 PV Distribution Partnership

SunTechnics and SunPower Corporation announced a distribution partnership at the Intersolar 2004 tradeshow. The agreement gives SunTechnics exclusive rights to market \$40 million to \$75 million of select SunPower PV products in Europe through 2005. SunTechnics' two new modules feature SunPower's all-black appearance and all-back-contact solar cells that have conversion efficiencies of more than 20%. Story at: http://biz.yahoo.com/bw/040624/245140_1.html
SunTechnics: <http://www.SunTechnics.de/>
SunPower: <http://www.sunpowercorp.com/html/>

6-24-04 Renewable Hydrogen Generation

The Chewonki Foundation of Wiscasset has teamed up with the Hydrogen Energy Center of Portland to create the Chewonki Renewable Hydrogen Project, an educational demonstration. As part of the \$250,000 project, a PV system will be installed on the roof of the Chewonki's Center for Environmental Education to produce hydrogen from water with the PV-powered electrolyzer. The hydrogen will be stored, and fed into fuel cells for back-up power. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6984>

Chewonki: <http://www.chewonki.org/Home/>

Hydrogen Energy Center: <http://www.h2eco.org/>

6-24-04 PV Inverter Line

Magnetek, Inc. announced that its line of Aurora PV inverters will be formally unveiled at the Intersolar 2004 trade show in Freiburg, Germany 24-26 June 2004. Information at:

http://biz.yahoo.com/bw/040624/245211_1.html

Magnetek: <http://www.alternative-energies.com/>

6-24-04 More on ATS PV Plant

ATS has begun to optimize the 26 individual production processes that are housed in the new PV factory, and Spherical Solar Power is expected to begin shipping products this summer. Story at

SolarAccess: <http://www.solaraccess.com/news/story?storyid=6987>

ATS Automation: <http://www.atsautomation.com/>

Spherical Solar: <http://www.solaraccess.com/marketplace/compdetail?compid=1816>

6-24-04 More on Konarka Venture Capital

Proceeds from Konarka's \$18M Series C financing will be used for capital equipment, operational expenses, and strategic investments associated with scaling manufacturing to production levels, as well as supporting R&D. New Enterprise Associates invested \$3.6M in Konarka. Said Arno Penzias, NEA venture partner, "While today's wide interest in new sources of energy has spawned a swarm of photovoltaic start-ups, only Konarka offers the cost advantage of roll-to-roll manufacturing, with the installation conveniences associated with integration into roofing materials." Story at:

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040623005155&newsLang=en

Additional coverage at: http://news.com.com/Start-up+promises+bendy+solar+cells/2110-7341_3-5245520.html?part=rss&tag=5245520&subj=news.7341.10

6-24-04 Fraunhofer Publications

Publications from the Fraunhofer Institut Solare Energiesysteme, presented at the 19th EPVSEC, can be accessed under publications at: <http://www.ise.fraunhofer.de/english/publications/index.html>

6-24-04 European Commission Internet Broadcast

The European Commission is launching its first streaming portal on renewable energies and energy efficiency, with interactive live Internet broadcasts and video on demand. Story at:

<http://europa.eu.int/rapid/pressReleasesAction.do?reference=IP/04/780&format=HTML&aged=0&language=en&guiLanguage=en>

http://www.managenergy.tv/me_portal/portal.do?jsessionid=5A2CBAC9A8B9D45CFF727902923CF2DE

6-24-04 IEA PV Power Systems Programme Special Issue [Kevin Eber]

Issue No. 19, 23 June 2004, a special issue on the IEA Photovoltaic Power Systems Programme, is on line at: http://spider.iea.org/impagr/cip/archived_bulletins/index.htm

6-24-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Appropriations, full House consideration June 25.

The House Appropriations Committee passed its FY 2005 Agriculture spending bill yesterday, which includes provisions for renewable energy grants and loans at about \$15M (\$23M in FY 2004).

6-24-04 Solar Boat Event

Solar Cup, the solar-powered boat competition sponsored by the Metropolitan Water District of Southern California, is featured on an upcoming edition of the cable TV program "Straight Talk With Art Levine". Held 21-23 May, Solar Cup drew 22 teams from high schools throughout the Southland. Students built, equipped, and raced solar-powered boats. Story at:

http://biz.yahoo.com/bw/040623/235795_1.html

6-23-04 ATS PV Production Facility

A 20 MW production facility for solar photovoltaics is opening to manufacture a flexible solar cell with tiny silicon beads bonded in an aluminum foil. The [Canadian] federal government provided \$30 million of the total \$85 million to commercialize the product. This and more news at the Canadian Association for Renewable Energies <http://www.renewables.ca/main/main.php>

Story at: <http://www.stockhouse.com/news/news.asp?tick=ATA&newsid=2342401>

Additional company information at: <http://www.newswire.ca/en/releases/orgDisplay.cgi?okey=10702>

ATS Press: <http://www.atsautomation.com/profile/news/pr2004.asp>

6-23-04 Konarka Venture Capital

Konarka Technologies has \$18 million in a 3rd round of financing as it prepares a production line for its lightweight, flexible solar cells. It expects to deliver its first commercial products by December. Konarka uses a process called "cold sintering" that it says allows it to produce PV cells at 1/3 the temperature of traditional methods. Story at:

http://boston.bizjournals.com/boston/stories/2004/06/21/daily21.html?jst=b_in_hl

Konarka Press: http://www.konarkatech.com/news_press.php

6-23-04 Thailand Solar

Solatron Co. Ltd. plans to list on the Stock Exchange of Thailand by the end of the year. The move to list is part of the company's strategy to support its future business expansion. The company currently can produce 40 MW annually, and expects to increase capacity to around 80 MW after its expansion. Story at:

http://www.nasdaq.com/asp/quotes_news.asp?cpath=20040623%5CACQDJON200406230551DOWJONESDJONLINE000272.htm&selected=9999&StoryTargetFrame=top&mkt=WORLD&chk=unchecked&lang=&link=&headlinereturnpage=http://www.international.nasdaq.com/asp/gmWorldNews.asp&headl

6-23-04 Industry Growth Forum [Linda Floyd]

The 17th NREL Industry Growth Forum will be held 18-20 October 2004 in Orlando, Florida. The forum will showcase about 35 promising clean energy companies poised for market growth. NREL is accepting applications from clean energy companies who would like to present to an audience of leading clean-energy investors. For more information, see the Web site at:

<http://www.incubator.com/nrel/apply.shtml>

6-23-04 DOE Federal Energy Management Technical Assistance [Shawn Herrera]

The U.S. DOE FEMP is interested in supporting agency projects in need of technical assistance in several areas, including renewable energy. The total value for FY 2005 technical assistance is up to \$500,000 to be distributed among selected projects, typically ranging from \$25,000 to \$50,000 per project. Those interested in requesting technical assistance from FEMP can submit an on-line application at:

<http://fempcentral.com/tacalls/logon.ta>

Additional information at: <http://www.eere.energy.gov/femp/>

6-23-04 Crystalline Silicon Solar Cells and Modules Workshop (Sandy Padilla)

The "14th Workshop on Crystalline Silicon Solar Cells & Modules: Materials and Processes" will be held August 8-11, 2004 in Winter Park, Colorado, USA. The workshop is intended to address the fundamental properties of PV-Si, new solar cell designs, and advanced solar cell processing techniques. For more information, or to register, visit the website at:

http://www.nrel.gov/silicon_workshop/ or contact Dr. Bhushan Sopori at: bhushan_sopori@nrel.gov or Sandy Padilla at sandy_padilla@nrel.gov or Sara Huntley at sara_huntley@nrel.gov

6-23-04 Space Power

Scientists from around the world will gather June 30 to July 2 in Spain to discuss solar power from space. The conference will include scientists from NASA, the European Space Agency, and the Japan Aerospace Exploration Agency. More on this topic at:

http://www.wired.com/news/technology/0,1282,63913,00.html?tw=wn_tophead_1

SPS Conference Website: <http://www.congex.nl/04c15/>

6-23-04 Western Governors Association

Policy Resolutions adopted at the 2004 WGA Annual meeting include Clean Energy (04-14)

<http://www.westgov.org/wga/policy/04/>. According to the WGA Website, the Western Governors discussed energy supplies and set ambitious goals for development of renewable energy sources and improved energy efficiency (6/22/04) <http://www.westgov.org/>. The Governors want to develop 30,000 MW of clean energy in the West by 2015 and increase energy efficiency 20% by 2020.

Governor Bill Owens was elected chairman of the group. Coverage from numerous sources, such as: http://www.rockymountainnews.com/drmn/business/article/0,1299,DRMN_4_2983126,00.html

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1721461&ResultCategoryType=2,7&NewsPageID=3>

http://www.azdailysun.com/non_sec/nav_includes/story.cfm?storyID=89469

http://www.dailycamera.com/bdc/state_news/article/0,1713,BDC_2419_2983580,00.html

6-23-04 Solar and Wind Powered Stadium [Kevin Eber, EERE Network News]

New York City is bidding to host the 2012 Summer Olympics, and is including a renewable-powered stadium as part of its bid. The plan includes 25,000 solar collectors for hot water, 100,000 square feet of PV panels, and 34 wind turbines. Story at EERE Network News:

<http://www.eere.energy.gov/news/archive.cfm/pubDate=%7Bd%20%272004%2D06%2D23%27%7D#6946>> Plan and video:

<http://www.nyconventioncorridor.org/>

6-23-04 U.K., Solar Pyramid

The Solar Pyramid, due to be completed in a year, will be the world's largest solar-driven timepiece, with a 150-foot mirror-polished stainless steel structure. According to the article, the Solar Pyramid incorporates new and innovative solar cell technology. As well as providing a major tourist attraction, it is hoped the pyramid will become a center of excellence for solar science. Once complete, it will not only be the nation's biggest art landmark, but a fully working precisely-accurate sundial. Story June 22 at:

<http://www.sheffieldtoday.net/Results.aspx?Search=Solar+Pyramid&SearchType=any&SearchSection=58&DateFrom=011995&DateTo=062004&Page=1>

Solar Pyramid: <http://www.solarpyramid.co.uk/>

6-23-04 Solar Panel Shortage

California solar firms are finding PV panels hard to come by and the shortage is expected to last until the European winter makes it difficult to install units on German rooftops. Story at:

<http://www.californiaenergycircuit.net/displaystory.php?task=show&sid=506&un=&ut=&pd=&seid=1087998037>

6-23-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Appropriations, full House consideration this week.

In related news...

6-23-04 New Mexico, Concentrating Solar Power RFP

The State of New Mexico, through the New Mexico Energy, Minerals and Natural Resources Department is requesting proposals to perform a feasibility study to define and scope a specific, viable utility-scale project or projects using concentrating solar power technology in New Mexico. About \$190,000 is available. More information at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6974>

EMNRD RFP Information: <http://www.emnrd.state.nm.us/ecmd/>

6-22-04 New Mexico, Solar-panel Plant [Joel Goldblatt]

Governor Bill Richardson announced that the village of Questa, New Mexico will become home to a Spire Solar, Inc. facility that will manufacture solar panels. Scroll to story and photo at:

<http://www.taosnews.com/db/Daily.php3#150>.

An article was also published in the Albuquerque Journal June 18 (subscription required: "Solar-Panel Firm Plans Plant, 20 Jobs in Questa" http://www.abqjournal.com/north/187583north_news06-18-04.htm)

6-22-04 Solar Metal Roofing Product

AluPlusSolar combines UNI-SOLAR thin-film PV laminate and Kalzip sanding seam roofing for a flexible solar metal roofing solution. Said Director of Engineering at solarcentury, Dan Davies, "This product is the result of 2 years hard work and AluPlusSolar is another example of how PV can be used as a standard construction material to form part of a building." Malcolm Ball, solarcentury Commercial Director said, "...we've already secured funding for 2 AluPlusSolar projects in the latest round of DTI funding." Solarcentury secured 6 projects in the latest round of founding by DTI. Press at: <http://www.solarcentury.co.uk/news/newsitem.jsp?newsid=385> and

<http://www.solarcentury.co.uk/news/newsitem.jsp?newsid=387>

6-22-04 Uni-Solar Ovonic BIPV in Beijing

United Solar Ovonic announced the signing of a new contract to provide a 300-PV system for the Beijing New Capital Museum scheduled to open in 2005. Uni-Solar's flexible PV laminates will be applied directly to the stainless steel roofing pans using the "peel and apply" adhesive. Story at:

http://biz.yahoo.com/prnews/040622/detu008_2.html

Uni-Solar: <http://www.uni-solar.com/>

6-22-04 Evergreen Solar Private Equity Financing

Evergreen Solar, Inc., announced the completion of its previously announced private placement financing of \$20M of Common Stock and warrants to purchase Common Stock. Press at Evergreen:

http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=eslr&script=410&layout=-6&item_id=583735

6-22-04 Marc Roper, RWE SCHOTT Solar [Bill Jeppesen]

RWE SCHOTT Solar Inc. announced the promotion of Marc Roper to vice president of sales and marketing. In addition to overseeing the company's sales operations, Marc will be responsible for developing and implementing the company's strategic marketing initiatives in the North and South American markets. [Press release]

RWE SCHOTT Solar: <http://www.rweschottsolar.com/>

Photo:

<http://www.rweschottsolar.com/cms/us/files/2004/4/632168736497500000jmxdsk55jil4mz45pc51hnmu.JPG>

6-22-04 More on ECN Publications - Screen-printed Silicon Solar Cells, and Dye-sensitized Solar Cells (Mariska van Rijn-Brak)

Two papers published by ECN at the 19th EPVSEC, one on producing 16.5% screen-printed silicon solar cells with low-cost inline processing, and another on new concepts and materials for dye-sensitized solar cells, are now available on line at: <http://www.ecn.nl/zon/epvsecparis20042.html>

6-22-04 California, Emerging Renewables Program

The California Energy Commission is holding a meeting June 30, part of which will cover proposed revisions by the Renewables Committee to the Emerging Renewables Program Guidebook. For more information, see Solarbuzz at: <http://www.solarbuzz.com/News/NewsNAGO183.htm>

6-22-04 More on DayStar Move

DayStar Technologies will relocate the company from Grass Valley, California to Saratoga County, New York. More on this story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6968>

6-22-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Appropriations, full House consideration this week.

6-21-04 DayStar Move

DayStar Technologies, Inc. announced it has elected to relocate the Company from Grass Valley, California to Saratoga County, New York where it will establish its corporate headquarters, manufacturing plant and research and development facilities. The New York State Department of Economic Development has provided a package of State and local economic incentives valued up to \$11,136,000. Story at: http://biz.yahoo.com/prnews/040621/nym056_1.html

More news at:

<http://www.timesunion.com/AspStories/story.asp?storyID=258946&category=BUSINESS&newsdate=6/19/2004>

6-21-04 Germany, Q-Cells Production Expansion

Q-Cells AG plans to open a 4th production line in 2005. Production expectations have also increased from 60 MW to 75 MW in 2004. The expanded plant will produce what the company says is an industry-leading 210 mm dimensioned multicrystalline silicon solar cell with 15% efficiency.

Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUMA44.htm>

Q-Cells: http://www.q-cells.com/1_eng.php

6-21-04 Germany, 4-MW PV Installation

BP Solar is building one of the largest PV installations in the world near Merseburg in southern Saxonia-Anhalt. The PV plant will produce about 3.4 M kWh per year. There's an option to extend the plant size by another 2 MW later. A total of about 25,000 mono-crystalline and polycrystalline solar modules manufactured by BP Solar make up the plant. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUPR160.htm>

BP Solar: <http://www.deutschebp.de/genericsection.do?categoryId=370&contentId=2000104>

6-21-04 European Renewable Energy Loans

The European Investment Bank will increase its lending for renewables by up to 50% of its financing for electricity generation in the EU by 2010 in order to promote the EU's target of 22% from green power, according to a 6-point renewable energies action plan outlined at the recent renewables conference in Bonn. This story, and more renewables news, at ReFocus:

http://www.sparkdata.co.uk/refocus/redesign/fp_showdoc.asp?docid=42475528&accnum=1&topics

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6-21-04 Arizona, APS PV Program

Arizona Public Service made public plans to extend their EPS Credit Purchase Program. The program provides incentives to APS customers that install PV power systems on their properties.

The first phase of funding for the program was completely reserved by the end of May. The extension provides an additional \$1M in funding and brings the total funding available for PV systems to \$2M in 2004. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO181.htm>
EPS Credit Purchase Program: http://www.aps.com/my_community/Solar/eps.html%20
Arizona SEIA: <http://www.arizonasolarindustry.org/>

6-21-04 Solar Electric Systems for Uganda Telecom

NAPS Systems OY will deliver 22 solar electricity systems to Siemens for Uganda Telecom's cellular network extension project. The delivery comprises 1,216 pieces of 100-W solar modules, 22 heavy-duty charge controllers, and battery banks. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsAFPR13.htm>
NAPS Systems: <http://www.napssystems.com/>

6-21-04 PV System Monitoring

Santa Clara Valley Water District has selected Fat Spaniel Technologies to monitor the water district's new \$2.4M solar energy system. Fat Spaniel Technologies is a provider of real-time solar energy monitoring for commercial and residential installers, equipment manufacturers, and systems owners via any internet-enabled device. The public will also be able to view the data real-time. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR392.htm>
Water District: <http://www.valleywater.org/>
Fat Spaniel Technologies: <http://www.fatspaniel.com/>

6-21-04 California PV Program

In an email from the California Solar Energy Industries Association, Executive Director Jan McFarland requested that solar proponents immediately contact CPUC Commissioners to push for changes in the California Self-Generation program, in order to facilitate growth. See details at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO179.htm>
California SEIA: <http://www.calseia.org/>

6-21-04 Australia, CSIRO Agenda

CSIRO has a substantial program in place that includes research into topics such as solar reforming of natural gas to "embed" solar energy in gas and consequently reduce greenhouse gas emissions, production of hydrogen from renewables, and renewables generation, among others, with the ultimate objective to develop technologies that will lead to "Zero Emissions Technologies" for energy use in Australia. Story at: <http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1719664&ResultCategoryType=2,7&NewsPageID=3>

6-21-04 Japan, Clean Energy Policy

Japan plans to strengthen its industrial sector by developing clean energy using solar power, wind, and biomass, or organic, resources. The Ministry of Economy, Trade and Industry finalized its policy after concluding it was necessary to enhance the marketability of clean energy rather than depending on subsidizing domestic industry. A system will be established to network solar and wind power generators with biomass energy generators and fuel cells. Story at: <http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1719467&ResultCategoryType=2,7&NewsPageID=3>

6-21-04 Solar 2004 MSRI and IREC Meeting

The Million Solar Roofs Initiative and the Interstate Renewable Energy Council will hold their annual meeting at the Solar 2004 Conference in Portland, Oregon, on July 10. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6957>
Million Solar Roofs: http://millionsolarroofs.com/articles/static/1/1083875008_1023713684.html
IREC: <http://irecusa.org/>

6-21-04 "Power from the Sun", Cover Story

A cover story in Chemical & Engineering News, "Power from the Sun", with PV facts, figures, and commentary from PV Energy Systems' Paul Maycock, and Worldwatch Researcher Janet Swain, can be found at: <http://pubs.acs.org/cen/coverstory/8225/8225solarenergy.html>

6-21-04 Interview with Jeremy Leggett

For an interview with Jeremy Leggett, CEO of Solar Century, including information on solar roof tiles, see story through SolarAccess at:

<http://www.guardian.co.uk/economicdispatch/story/0,12498,1242186,00.html>

6-21-04 More on the Sharp-New Mexico MOU

Said Ron Kennedy, General Manager of Sharp Electronics' Solar Systems Division, "Sharp is proud to work with the state of New Mexico, which shares our keep commitment to make solar a mainstream energy alternative. Amid increasing energy costs and environmental concerns, the clean, renewable energy provided by solar technology holds significant promise for the future. With the accumulated knowledge and experience of Sharp and this impressive team of collaborators, this major partnership aims to pave the way for expanded solar energy markets and cleaner, more environmentally-friendly energy sources." Story at: http://biz.yahoo.com/bw/040618/185313_1.html
Sharp: <http://www.sharpusa.com/SharpHome/>

6-21-04 Nextek's New Tool [Mark Robinson]

Nextek Power Systems has a new tool to illustrate the methods behind and benefits of their Solar-Assisted, Grid-Backed, lighting and backup lighting systems. See the flash movie at:

<http://www.DirectCoupling.com/> Nextek: <http://www.NextekPower.com/>

6-21-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Committee mark-up June 16: The Committee recommends \$82,733,000 for the solar energy programs in FY 2005. See House Report 108-554. Full House consideration June 23 or 25.

Interior & Related Agencies Bill: June 17, the House passed the Interior and Related Agencies Appropriations bill, which includes Energy Conservation at \$656,071,000. Vehicle technology research \$167.356M; fuel cell research \$71M; intergovernmental activities \$84.667M; distributed energy resources \$62.48M; building technologies \$64.884M; industrial technologies \$84.94M; biomass and biorefinery systems \$12.68M; Federal Energy Management Program \$17.9M; program management \$90.164M. Weatherization earmarking is recommended at \$227.3M and State energy earmarking at \$44.798M. The Senate has not marked up yet.

[U.S. Department of Energy National Center for Photovoltaics](#)

6-18-04 AstroPower Action

AstroPower Inc. is seeking court permission to sell its Spanish unit in a Chapter 11 auction. The company said it has agreed to sell all of its equity interest in the unit to Spanish concern Elecnor SA pending court approval. If the sale is approved, AstroPower plans to close the deal in the 3rd quarter. The Spanish unit is AstroPower's last major asset to be sold. Story through Solarbuzz at: <http://news.morningstar.com/news/DJ/M06/D17/200406171128DOWJONESDJONLINE000657.html>

6-18-04 Q-Cells Facts

For selected facts and figures on installed capacity, production, number of employees, and revenue as of summer 2004, see: http://www.q-cells.com/7_eng.php

6-18-04 SMUD Partners

The Sacramento Municipal Utility District is inviting potential suppliers of renewable electricity to add their names to SMUD's solicitation email list. Those on the list will soon receive a Request for Offer

to help SMUD identify potential renewable energy projects to help meet its Renewable Portfolio Standard goals and Greenenergy program requirements. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6945>

SMUD Bids: <http://www.bids.smud.org/>

6-18-04 SolarOne Solar-powered LED Lights [A. Karina Felix]

SolarOne(tm) (SolarOne™ is a trademark of SolarOne Solutions--parent company is Systems Design and Technology) Solutions announced the first of several new outdoor lights for neighborhoods, campuses, and parks. The lights are powered by a solar cell array, and produce light from an array of white LEDs. Press at: <http://www.solarone.net/news/docs/pr040616.html>

6-18-04 Prep Course for PV Installer Certification (IREC)

On 9 July 2004, a preparatory course for the NABCEP PV Installer Certification Exam will be held in Portland, Oregon. For this and more news, see the Interstate Renewable Energy Council eNewsletter at: <http://www.irecusa.org/commout/enewsletter.html>

For registration information: http://www.ases.org/solar2004/s04_main.htm

6-18-04 U.S., State Incentives (IREC)

Visit the new incentives, and updated/verified incentives at the Database of State Incentives for Renewable Energy (DSIRE) for the latest on state incentives at: <http://www.dsireusa.org/>

6-18-04 U.S., Energy Tax Provisions

The House approved a corporate tax bill, H.R. 4520, that includes a 2-year extension of a renewable energy production tax credit (wind, closed-loop biomass). The Senate earlier passed a corporate tax bill that included a \$19-billion package of energy tax incentives. Now the bills will go into negotiations.

6-18-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Committee mark-up June 16: The Committee recommends \$82,733,000 for the solar energy programs in FY 2005.

Interior & Related Agencies Bill: Last night the House passed the Interior and Related Agencies Appropriations bill, which includes Energy Conservation. Vehicle technology research \$167M; fuel cell research \$71M; building technologies \$65M. The Senate has not marked up yet.

6-17-04 Iowa Thin Film Solar Tents

Iowa Thin Film Technologies, Inc. has completed development of integrated solar technology for 3 Army tent prototypes. The tents integrate the company's POWERFILM(R) (PowerFilm® is a registered trademark of Iowa Thin Film Technologies) flexible solar panels directly with the tent fabric. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPT78.htm>

Iowa Thin Film Technologies: <http://www.iowathinfilm.com/>

6-17-04 Evergreen Solar Private Placement

Evergreen Solar, Inc. announced it has agreed to sell approximately \$20 million of equity in a private placement of Common Stock and warrants to purchase Common Stock. Said Richard M. Feldt, President and Chief Executive Officer, "The \$20 million we are raising puts Evergreen in the strongest financial position in its history and gives it the resources it needs to execute the business plan". Press at: http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=eslr&script=410&layout=-6&item_id=582242

6-17-04 Entech Articles

Three articles recently published by [CompoundSemiconductor.net](http://www.CompoundSemiconductor.net) and [Optics.org](http://www.Optics.org) related to Entech's ground and space technologies are featured at: <http://www.entechsolar.com/>

6-17-04 Sharp & New Mexico

More on the agreement between Sharp and New Mexico can be found at the Sharp press:

<http://sharp-world.com/corporate/news/040616.html>

CNN Yellowbrix:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=52708932&ID=cnniw&scategory=Energy%3AAlternative&

Richardson Press: <http://www.governor.state.nm.us/2004/news/june.html>

6-17-04 Bonn Renewables Conference

For an overview of key policy recommendations to promote renewables from the conference in Bonn, Germany, see ReFocus at:

http://www.sparksdata.co.uk/refocus/redesign/fp_showdoc.asp?docid=54848880&accnum=1&topics

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6-17-04 SEMICON Europa 2005 (Wolfgang Koch)

The SEMI Technology Symposium of SEMICON Europa 2005 will be held 12-14 April 2005 in Munich. SEMI is transforming the SEMICON(R) (SEMICON® is a registered trademark of Semiconductor Equipment and Materials International [SEMI]) Europa exposition and conferences into a European forum matched to the challenges facing the European semiconductor industry. SEMI invites materials and equipment manufacturers of the PV community and their suppliers to become actively involved in shaping of both a Photovoltaic Production Technology Session during the Symposium, and a dedicated exhibition to showcase PV competence. [press and flyer at the 19th PVSEC, Paris]

Laura Jäth: ljaeth@semi.org

Johanna Turpeinen: jturpeinen@semi.org

Fred Kolbe: fkolbe@semi.org

6-16-04 Sharp with New Mexico

Sharp Corp. and the U.S. State of New Mexico will work together to develop new energy systems, including some for solar power generation and fuel cells. Under the plan, New Mexico will arrange for Sharp to collaborate with research institutes and universities in the state, including Los Alamos National Laboratory, Sandia National Laboratories, and New Mexico State University. Story at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1703106&ResultCategoryType=2.7&NewsPageID=3>

6-16-04 WorldWater PV Delivery

WorldWater Corp. announced it has completed supplying the 1-MW PV system at Cerro Coso Community College in Ridgecrest, California. The company delivered over 6,000 Sharp Electronics solar modules, as well as the inverters and required distribution equipment. Story at:

<http://biz.yahoo.com/pz/040616/59213.html>

WorldWater: <http://www.worldwater.com/>

6-16-04 Manufacturing Simulation Software

Wright Williams & Kelly, Inc. announced it has shipped its latest version of TWO COOL(r) (TWO COOL® is a registered trademark of Wright Williams & Kelly, Inc.) Cost of Ownership and Overall Equipment Efficiency software to the Universidad Politecnica de Madrid's Instituto de Energia Solar. The software will be used as part of their advanced teaching and research in PV and solar energy. Story at:

http://biz.yahoo.com/bw/040616/165272_1.html

WWK: <http://www.wwk.com/>

6-16-04 SEI PV Manual [SEI Newsletter]

SEI has a new textbook, "Photovoltaics: Design and Installation Manual", which includes an overview of PV, detailed descriptions of PV system components, chapters on sizing systems, analyzing sites and installing PV systems, and detailed appendices.

SEI: <http://www.solarenergy.org/>

Sign up for Newsletter: <http://list.solarenergy.org/signup.cfm>

6-16-04 European Photovoltaic Industry Association

At the initiative of several parties during the 19th European PV Conference, including EPIA, 2000 participants formulated a contribution calling for the implementation of an Industrial Photovoltaic Policy for Europe. Also the European Industry Roadmap was launched, presenting European PV Industry priorities. And, the first results of the PV Catapult strategy implementation were presented.

For details, contact EPIA epia@epia.org

EPIA: <http://www.epia.org/>

Roadmap: <http://www.epia.org/07news/newsletter.asp>

6-16-04 Sunbeam [Carolyn Beach]

For the latest issue of "Sunbeam", The eNewsletter of the American Solar Energy Society, with chapter news and articles on subjects such as the corporate tax bill (including energy), see:

http://www.ases.org/chapter_newsletter/2004/MJ04/MJ04.html

6-16-04 Solar Forum

Presentations from the May 2004 Solar Forum in San Francisco, California, including topics such as greentags and performance-based incentives in California (Tom Starrs) are available on line at:

<http://www.californiasolarcenter.org/solarforum.html>

California Solar Center: <http://www.californiasolarcenter.org/index.html>

6-16-04 Statistical Review of World Energy [Kevin Eber]

BP released its "Statistical Review of World Energy 2004", noting that PV capacity has increased more than 10 fold over the last decade. See EERE Network News for more information at:

<http://www.eere.energy.gov/news/archive.cfm/pubDate=%7Bd%20%272004%2D06%2D16%27%7D#energy>

6-16-04 Green Power Network

For the new look of the Green Power Network web site, see:

<http://www.eere.energy.gov/greenpower/>. Also, the web site for the 9th National Green Power Marketing Conference, 4-6 October 2004 in Albany, New York can be found at:

<http://www.eere.energy.gov/greenpower/conference/ninth.html>

6-16-04 Xantrex Inverters

Xantrex now has an upgraded warranty and new performance guarantee packages for its PV Series grid-tie solar inverters installed in the U.S. and Canada. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPT77.htm>

Xantrex: <http://www.xantrex.com/applications/index.asp?did=965>

6-16-04 U.S., Energy Bills

For the 3rd time in recent times, the House passed a comprehensive energy bill, this time H.R. 4503 with the same provisions as H.R. 6. The move was largely seen as symbolic, though in the unlikely event the Senate passes its version (S. 2095), the energy legislation could go to conference.

6-16-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Committee mark-up June 16. Full House consideration of Interior & Related Agencies Appropriations (includes Energy Conservation), June 16, see House Committee report 108-542 for details of the proposed legislation.

6-15-04 Triple-junction Concentrator Array

Engineers have deployed and tested a terrestrial triple-junction solar array rated at over 1 kW. Developed by a team comprising NASA Glenn Research Center, Boeing, and Entech, the

concentrator array provides over 200 W per square meter power output at 600 V operation. The concentrator array uses 240 Spectrolab GaAs P/N solar cells; 2 concentrator modules form the array. Details will be presented at the "Solar Power from Space" conference, Granada, Spain at the end of June. Story at: <http://www.compoundsemiconductor.net/articles/news/8/6/16/1>

6-15-04 Printable Solar Cells

Konarka's technology is one example of printable solar cells, which are lightweight and flexible; see: http://biz.yahoo.com/bw/040615/155053_1.html. A review of this technology in "Solar-Cell Rollout", the cover story of the July/August 2004 issue of MIT's Technology Review, will be available June 22 at: <http://www.technologyreview.com/>

6-15-04 BP at Bonn

In total, the BP delegation to the Bonn renewables conference included 30 international representatives from Germany, England, Spain, France, and the U.S. BP was also represented with an exhibition on the new Saturn Solar Cell Technology during the Week of Environment. BP provided information on the new Real Power modules of the Saturn 7 series. Press at:

6-15-04 Australia, Solar and Wind Incentives

Australian Prime Minister John Howard is announcing solar and wind power incentives, which will form part of a \$A500m, 10-year energy statement called "Security Australia's Energy Future".

Information at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1697361&ResultCategoryType=2,7&NewsPageID=3>

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1700017&ResultCategoryType=2,7&NewsPageID=3>

6-15-04 Renewable Energy Finance Meeting Speakers (Mike Eckhart)

New Mexico Governor Bill Richardson, U.K. Energy Minister Stephen Timms, and German Legislator Hermann Scheer will address the Renewable Energy Finance Meeting in New York 23-24 June. [press release, American Council on Renewable Energy] Conference information:

<http://www.americanrenewables.org/>

Coverage at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6934>

6-15-04 Solar Photo Voltaics 2003 [Amy Cole]

The PV report from Research and Markets is available, with information on subjects from installed base to company profiles. For more information, see the web site at:

<http://www.researchandmarkets.com/reports/c1282/>

6-15-04 Western Governors' Association Annual Meeting

WGA's annual meeting will take place 20-22 June 2004 in Santa Fe, New Mexico. In a session on June 22 on "A Western Clean and Diversified Energy Initiative", Governors will discuss with experts opportunities for developing a clean energy system for the West to capitalize on the region's immense energy resources. See agenda at: <http://www.westgov.org/wga/meetings/agenda2004.htm>

6-15-04 Siemens Solar Software

To download the SITOP solar select by Siemens Automation and Drives online, see:

http://www.siemens.com/index.jsp?sdc_rh=null&sdc_flags=null&sdc_sectionid=0&sdc_secnavid=0&sdc_3dnvlstid=&sdc_countryid=0&sdc_mpid=0&sdc_unitid=999&sdc_conttype=2&sdc_contentid=1185616&sdc_langid=1&

http://www.ad.siemens.de/sitop/solar/html_76/download.htm

6-15-04 Carmanah's Solar-powered LED Order

Carmanah Technologies Corporation announced it has received an additional order for about \$370,000 from the U.S. Army to supply solar-powered LED aviation lights to 3 air bases in Iraq.

Story at: <http://www2.ccnmatthews.com/scripts/ccn-release.pl?current/0615031n.html>
Carmanah: <http://www.carmanah.com/>

6-15-04 Sustainable Energy Coalition Letter

In a letter sent to leadership of the Senate and House, 23 member groups of the Sustainable Energy Coalition called on members of Congress to work in a bipartisan fashion to enact tax provisions promoting renewable energy without further delay. [Ken Bossong, Sustainable Energy Coalition press].

6-15-04 U.S., Energy Bills

For coverage of the latest on the energy tax provisions, see SolarAccess at: <http://www.solaraccess.com/news/story?storyid=6930>. The House will debate 4 energy-related bills this week, including H.R. 4503, introduced by Joe Barton to replace H.R. 6 as comprehensive energy legislation <http://www.gop.gov/Committeecentral/bills/hr4503.asp>, and H.R. 4513 that expedites NEPA for siting renewable energy projects <http://www.gop.gov/Committeecentral/bills/hr4513.asp>.

6-15-04 U.S., Fiscal Year 2005 Energy Appropriations

FY 2005 Interior & Related Agencies bill on House floor June 16. House Energy & Water Development Committee mark-up June 16. The FY 2005 Agriculture Appropriations Subcommittee markup (June 14) contains renewable energy & energy efficiency provisions at \$15M (\$23 M in FY 2004).

6-14-04 Martin Wolf, in Memory

Solar energy pioneer Dr. Martin Wolf of Princeton, professor emeritus at the University of Pennsylvania, died of cancer May 20 at home. In memory... 1982 Cherry Award: <http://ieeepvsc.nrel.gov/cherrywolf.html>

6-14-04 Carmanah Solar Lighting

Carmanah Technologies has won a tender to retrofit bus shelters in West Covina, California with Carmanah i-SHELTER(tm) (i-SHELTER™ is a trademark of Carmanah Technologies, Inc.) solar powered LED lighting systems, with an initial contract for about \$81,000, and full tender of up to \$155,000. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR389.htm>
Carmanah: <http://www.carmanah.com/>

6-14-04 U.K., GB2.2 Million for Solar

Energy Minister Stephen Timms announced an additional GB2.2m in funding awards for solar energy projects in the U.K. Story at: <http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1696605&ResultCategoryType=2.7&NewsPageID=3>

6-14-04 PV Specialists Conference

The 31st Photovoltaic Specialists Conference and Exhibition will be held 3-7 January 2005 at the Coronado Springs Resort, Lake Buena Vista, Florida. The Abstract & Extended Abstract Deadline is July 9, 2004. For more information, see the web site at: <http://www.meetingassistant.com/PVSC/>

6-14-04 U.S., Energy Tax Package

The House corporate tax bill will be debated today, and does not include the energy tax provisions as in the Senate version.

6-14-04 U.S., Energy Bills

The House will debate 4 energy-related bills this week, including H.R. 4503, introduced by Joe Barton to replace H.R. 6 as comprehensive energy legislation

<http://www.gop.gov/Committeecentral/bills/hr4503.asp>, and H.R. 4513 that expedites NEPA for siting renewable energy projects <http://www.gop.gov/Committeecentral/bills/hr4513.asp>.

6-11-04 EPV Research Papers & News

EPV is presenting two research papers in Paris at the 19th European PV Solar Energy Conference & Exhibition, one on development of nc-Si:H solar cells and one on CIGS devices, modules, and processing. In other EPV news, April 2004, the Tianjin Jinneng Solar Cell Corporation in Tianjin, China finished construction and installation of a 2.5 MW EPV IMS manufacturing facility for EPV a-Si modules. EPV news at: <http://www.epv.net/news/news.htm>

6-11-04 Solar Power Plant in China

Construction has started on a PV power plant with an installed capacity of 140 kW in Xingxingxia Town northwest of China's Xinjiang Uygur Autonomous Region. The plant is expected to be in operation February 2005. Story at: <http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2.2&NewsID=1683973&ResultCategoryType=2.7&NewsPageID=3>

6-11-04 Renewable Energy Project Handbook

The World Energy Council has issued a manual on projects in renewable energy. It is intended as an orientation aid for investors, companies, and government departments involved in the energy sector. Information at: http://www.german-renewable-energy.com/www/main.php?tplid=6&aktuell_id=30&PHPSESSID=383a0ccb1a476a093c19b66f3c416f5e

6-11-04 ASES, Solar Energy Conference

The National Solar Energy Conference, SOLAR 2004, takes place in Portland, Oregon, 9-14 July 2004. For information, see: http://ases.org/solar2004/s04_main.htm

6-11-04 U.S., Energy Tax Package

The House corporate tax bill will be debated Monday, and does not include the energy tax provisions as in the Senate version.

6-11-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Committee mark-up June 15.

6-10-04 Sharp Solar Cell Production

Sharp Corporation announced it will increase its annual solar cell production capacity to 315 MW, an increase from the company's previous level of 248 MW announced last November. Sharp also plans to increase production capacity of its module assembly plants in Tennessee and Wales by year-end. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsASMA37.htm>
Sharp: <http://sharp-world.com/corporate/news/040609.html>

6-10-04 ECN Screen-printed Silicon Solar Cells (Mariska van Rijn-Brak)

ECN is presenting a paper at the 19th European PV Solar Energy Conference in Paris on producing 16.5% screen-printed silicon solar cells with low-cost inline processing. Standard, commercially available multi-crystalline silicon wafers have been used. ECN sees possibilities to further increase the efficiency towards 18%, and to that end, new results obtained on the separate process steps will be integrated in the inline process. Paper available shortly at: <http://www.ecn.nl/zon/index.en.html>

6-10-04 SunPower's Technical Papers

See SunPower's web site for access to technical papers, including "Manufacture of Solar Cells with 21% Efficiency", June 2004, at: <http://www.sunpowercorp.com/html/Technical%20Papers/techpapers.html>

6-10-04 GEMZ Solar-powered Laptop

GEMZ Corp. announced that its subsidiary, International Nanotechnology Corporation, is planning to develop a solar-powered solution for powering laptop computers. Per the article, the INC product is believed to be the first to use PV Nanofilms, which combine thin films and nanotechnology so as to also work indoors in most lighting situations. Story at:

http://biz.yahoo.com/bw/040610/105189_1.html

GEMZ: <http://www.gemzcorp.net/>

6-10-04 More on Uni-Solar Air Force Contract

Additional coverage of Uni-Solar's contract with the Air Force Research Laboratory can be found at

SolarAccess: <http://www.solaraccess.com/news/story?storyid=6899>

6-10-04 Clean Energy

According to San Francisco-based technology research company Clean Edge, the wind, solar and fuel cells industries worldwide will all be high-growth markets over the next 10 years. Story, and access to report at:

<http://www.greenfutures.org.uk/briefings/Default.asp?id=1854&briefingtypedisplay=5>

6-10-04 Venture Capital in Energy Industry

Energy Info Source has available its 4th Edition of the 190-page Venture Capital in the Energy Industry report. The report looks at venture capital funding of emerging energy technologies up through year-end 2003. See: http://www.energyinfosource.com/products/product.cfm?report_ID=20

6-10-04 Solar Decathlon

The Crowder College Solar Team is in action, preparing their solar home for the next national solar decathlon. Story at: <http://www.neoshodailynews.com/articles/2004/06/09/news/news04.txt>

http://www.eere.energy.gov/solar_decathlon/

6-10-04 Canada, Geological Survey Solar

The Geological Survey of Canada needs 72 solar panels for its lab as soon as possible; only Shell Solar panels are eligible. There are 780 panels currently used at remote POLARIS observatories.

The RFP closes June 14. This, and more news at: <http://www.renewables.ca/main/main.php>

6-10-04 Solar Power Savings

Last year, West Marine boating supply installed a 57.6 kW, 480-panel, solar power system on its store in Santa Cruz. In its first year of operation, it produced 5% more kWh than projected. Solar Technologies, which built the system, and West Marine are planning to install an informational kiosk about the system's performance. And, says Tom Carey, senior vice president at West Marine, the company would consider installing solar systems in other stores, where appropriate. Story at:

<http://www.santacruzsentinel.com/archive/2004/June/10/biz/stories/02biz.htm>

6-10-04 More on Retirement of NREL Lab Director

NREL press on Richard H. Trully's retirement can be found at:

http://www.nrel.gov/news/press/2004/2804_trully_retires.html

6-10-04 U.S., Energy Tax Package

The House corporate tax bill will be debated Monday, and does not include the energy tax provisions as in the Senate version.

6-10-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Subcommittee mark-up June 9. The Chairman's mark includes \$343 million for renewable energy programs, \$31.6 million below the budget request and \$1 million above fiscal year 2004. See Press at:

http://appropriations.house.gov/index.cfm?FuseAction=PressReleases.Detail&PressRelease_id=382

[&Month=6&Year=2004](#)

http://appropriations.house.gov/index.cfm?FuseAction=PressReleases.Detail&PressRelease_id=383

House Interior & Related Agencies (Energy Conservation) Subcommittee mark-up (was held June 3)
House Interior and Related Agencies Committee mark-up June 9. Press at:

http://appropriations.house.gov/index.cfm?FuseAction=PressReleases.Detail&PressRelease_id=384

6-9-04 Uni-Solar Air Force Contract

United Solar Ovonic Corp. announced that the Air Force Research Laboratory at Kirtland AFB, New Mexico, has awarded Uni-Solar Ovonic a \$4.45 million, 18-month contract to develop new solar cell technology to be used in space and airship vehicles addressing defense and homeland security applications. Story at: http://biz.yahoo.com/prnews/040609/dew007_1.html

<http://www.uni-solar.com/>

6-9-04 U.K., PV Concentrators

U.K. solar concentrator manufacturer Whitfield Solar Ltd has received venture capital from the Cascade Fund, a major milestone allowing the company to develop and manufacture the concentrating PV systems that have been the focus of research by George Whitfield and his team at The University of Reading. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6896>

6-9-04 Australia Greenhouse Reduction

During a visit to Darwin, Dr. David Kemp, Australian Minister for the Environment and Heritage announced A\$1.57 million in Australian Government funding for 2 solar power projects at the remote Bradshaw and Kangaroo Flats Defense Training facilities. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASGO57.htm>

6-9-04 More On Navajo Utility Solar and Wind Systems [Kevin Eber, EERE Network News]

The Navajo Tribal Utility Authority has installed 63 renewable energy systems at remote homes throughout the Navajo Nation. SunWize Technologies announced in May that it supplied 880-watt PV power stations, which also incorporate Southwest Windpower Wind turbines. More at EERE Network News:

<http://www.eere.energy.gov/news/archive.cfm/pubDate=%7Bd%20%272004%2D06%2D09%27%7D#6926>

6-9-04 Colorado, Lab Director Retirement

Richard H. Truly, director of the National Renewable Energy Laboratory for more than 7 years announced that he plans to retire in early November.

<http://www.denverpost.com/Stories/0,1413,36~53~2200821,00.html>

http://cbsnewyork.com/national/BRF--Truly-Retirement-aa/resources_news.html

6-9-04 Colorado Renewable Energy Conference 2004 (Andy Walker)

In its 7th year, the conference will be held 25-27 June 2004 at the University of Denver. This year, the conference is combined with the National Renewable Energy Laboratory's Consumer Energy Expo. Information at: <http://www.cres-energy.org/>

6-9-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Subcommittee mark-up maybe today (?).

House Interior & Related Agencies (Energy Conservation) Subcommittee mark-up (was held June 3)
House Interior and Related Agencies Committee mark-up June 9.

6-8-04 RWE SCHOTT Solar Production

RWE SCHOTT Solar will increase its production of solar cells at its headquarters in Alzenau, Germany. The company is investing 40 million euros to create a capacity far exceeding 40 MW. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUMA43.htm>
RWE SCHOTT Solar: <http://www.rweschottsolar.com/>

6-8-04 Uni-Solar ECO-SERIES Modules

United Solar Ovonic LLC, Uni-Solar, announced it has received TUV Approval for Module # ES-124 and ES-62 line of solar modules previously introduced in March 2004. More on these modules in the story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPT21.htm>
Uni-Solar: <http://www.uni-solar.com/>

6-8-04 Spire Solar PV Systems for University

Spire Corporation announced that its subsidiary Spire Solar would deliver and manage the installation of PV systems on the campus of Roger Williams University in Bristol, Rhode Island. The systems will be about 4.5 kW and 7.2 kW, and will be funded by the University and a grant from the Rhode Island Renewable Energy Fund. Story at: http://biz.yahoo.com/bw/040608/85705_1.html

6-8-04 California, Coast Guard PV

At its training center in Petaluma, the Coast Guard now has a 125-kW PV system designed and installed by RWE SCHOTT Solar Inc. The system uses three arrays, one on the sloped roof of the barracks and 2 additional systems affixed to the flat roof on the training building. See details in the story at Solarbuzz, including photos: <http://www.solarbuzz.com/News/NewsNAPR388.htm>
RWE SCHOTT Solar: <http://www.rweschottsolar.com/>

6-8-04 Tribal Developments in Renewables

The U.S. DOE has released a new brochure, Renewable Energy Development on Tribal lands showing renewable energy development and progress on 45 projects using wind, PV, biomass, and geothermal on Tribal lands. Story at: <http://www.solaraccess.com/news/story?storyid=6875> Tribal Energy Program: <http://www.eere.energy.gov/tribalenergy/>

6-8-04 More on Total in Toulouse

Total Energie has approved the construction of a PV solar panel production plant in Saint-Martin-du-Touch in the Greater Toulouse area of France. The plant will be owned by Tenesol Technologies and will have a capacity of 15 MW. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUMA42.htm> and SolarAccess: <http://www.solaraccess.com/news/story?storyid=6890>

6-8-04 More on Royal Petroleum's PV

Sun Power & Geothermal recently completed a 36.6 kW DC PV system for the Royal Petroleum Company headquarters in Santa Rosa, California. Press and photo at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6874>

6-8-04 California, Emerging Renewables Rebate Procedures (Dale Trenchel)

Procedures for processing June 2004 Emerging Renewables Program applications can be found at: http://www.consumerenergycenter.org/erprebate/new_info.html

6-8-04 SunEdison Winner (Claire Broido)

Harvard Business School's annual Business Plan Contest challenges students to craft ideas for companies in general business and social enterprise. This year's Social Enterprise Track winner was SunEdison. Authors Brian Robertson (HBS MBA '04) and Claire Broido (HBS MBA '02) discuss their work at: <http://hbswk.hbs.edu/item.jhtml?id=4157&t=nonprofit>

6-8-04 Congressional Renewable Energy & Energy Efficiency Expo

Due to memorials for former President Reagan, the June 8 Expo has been cancelled. The Sustainable Energy coalition is exploring new dates, perhaps September 7. [Ken Bossong, 202-293-2898] and SolarAccess: <http://www.solaraccess.com/news/story?storyid=6882>

6-8-04 U.S. Comprehensive Energy Bill

The House "energy week" has been postponed due to memorials for former President Reagan. Environment & Energy (subscription) reports that it could be rescheduled as early as June 16.

6-8-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Subcommittee mark-up maybe June 9.
House Energy & Water Development Committee mark-up maybe June 14.
Senate Energy & Water Development Subcommittee mark-up, maybe this week.

House Interior & Related Agencies (Energy Conservation) Subcommittee mark-up (was held June 3)
House Interior and Related Agencies Committee mark-up June 9.
Senate Interior and Related Agencies Subcommittee mark up maybe this week.

6-7-04 SunPower PV Modules

SunPower Corporation announced its new solar-power product line, the first mass-produced PV modules utilizing SunPower's all-back-contact solar cells, with conversion efficiencies approaching 17%. Says Tom Werner, SunPower CEO, "SunPower's new PV modules set a new industry standard for efficiency and appearance". SunPower's new PV product line comprises two new modules types. Story at: http://biz.yahoo.com/bw/040607/75270_1.html
SunPower: <http://www.sunpowercorp.com/html/>

6-7-04 WorldWater's California Headquarters

WorldWater Corporation announced that the company is opening its Western headquarters office in Foster City, near San Francisco. Company Vice President of Sales, Carsten Bethge will operate corporate sales from the new office, relocating and increasing sales and technical staff and inventory from the company's two smaller offices in Sacramento and Solana Beach. Story at: http://www.primezone.com/newsroom/news_releases.mhtml?d=58678
WorldWater: <http://www.worldwater.com/>

6-7-04 Philippines, Puerto Princesa \$55M Solar Power Plant

This article reports that Asera Group Inc., in a venture agreement with the government of Puerto Princesa City in Palawan will put up a \$55-M, 6.67-MW solar power plant (type?) in the city called Sinag 1 to generate about 10 million kWh of electricity a year. Story through Solarbuzz at: http://money.inq7.net/topstories/view_topstories.php?yyyy=2004&mon=06&dd=07&file=3

6-7-04 Germany, 2 MW Solar Park

The Minister for Environment and Forests of Rhineland-Palatinate, along with the Mayor of Neustadt an der Weinstrasse, RWE SCHOTT, and others officially inaugurated a 2-MW solar park in Neustadt an der Weinstrasse. The plant utilizes a total of 6,264 solar modules, configured in 7 separate units of 287 kW each. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR157.htm>

6-7-04 Shell Solar in China

About 100 villagers from a remote Yunnan village in southwest China have access to electricity for the first time due to a Shell Solar project. The Shangnanyaoershi village is the first of 26 villages in Yunnan Province and the Xinjiang Uighur Autonomous Region to be connected to central solar electrification systems under the Shell project. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsASPR115.htm> and <http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1664>

[956&ResultCategoryType=2,7&NewsPageID=3](#)

Shell Solar: <http://www.shell.com/home/Framework?siteId=shellsolar>

6-7-04 Hawaii, Solar Bond

The Honolulu City Council passed the final City budget, including a \$7.85 M "solar" bond for clean energy and energy efficiency projects for city buildings. Adam Browning, Director of Operations for the Vote Solar Initiative, conducted an analysis of the bond proposal. Said Browning, "It's not just good for the environment, but smart fiscal policy". Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAGO176.htm>

6-7-04 France, Total in Toulouse

Total SA and its Total Energie will invest 6 million euro to build a new PV solar panel production facility in Toulouse, France. Press at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=Sector&template=2,2&NewsID=1664488&ResultCategoryType=2,7&NewsPageID=3>

6-7-04 Additional Coverage of Sanyo Production Capacity

Sanyo Electric has announced its intention to accelerate its growth in PV cell production capacity. The company will raise its short-term target production capacity for its Heterojunction with Intrinsic Thin Layer (HIT) technology from 133 MW to 153 MW. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASMA36.htm>

6-7-04 More Coverage of Renewables 2004

Recent coverage of Renewables 2004 in Bonn, Germany, including statements by David Garman, U.S. acting under secretary of energy, can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6864> and

<http://www.solaraccess.com/news/story?storyid=6871>

6-7-04 'A Solar Harvest' (Carolyn Beach)

The program for the National Solar Conference "Solar 2004: A Solar Harvest, Growing Opportunities", July 9-14, 2004 in Portland Oregon, can be found at: <http://www.ases.org/>

6-7-04 Photowatt International News

Photowatt has been awarded certification under the quality international standard ISO 9001 release 2000. Also Photowatt has introduced its new French partner, SOLARCOM. As Photowatt's distributor SOLARCOM Lyon will find solutions to individual and professionals PV modules needs, and to specific requirements for each installation. See these articles and more at the Photowatt June/July newsletter: http://www.photowatt.com/press/pdf_news/PDF_NEWS_32.pdf

6-7-04 More on World Renewable Energy Congress VIII and Expo (Robert Noun)

The Eighth World Renewable Energy Congress, to be held in Denver August 29 - September 3, 2004, continues to gain significant interest from around the world. Over 350 delegates from 70 countries have registered to date. Keynote speakers at the opening ceremony will include Stephen Timms, MP and Minister of Energy for the United Kingdom, the Honorable Hermann Scheer, member of the Bundestag and President of Eurosolar, John Mogford, Group VP for Gas, Power and Renewables, BP, and Dr. Abdulazia Othman Ahwajiri, Director General of the Islamic Educational, Scientific and Cultural Organization. A preliminary program will be available on the Congress Web site in early July. For current information or to register for the Congress, visit the web site at:

<http://www.nrel.gov/wrec>

6-7-04 U.S. Comprehensive Energy Bill

The conference report for the House energy bill (H.R. 6) was introduced as a new bill (H.R. 4503), which will be debated in the House this week as part of House Republicans' "energy week". The Senate recently passed an energy tax package as part of a corporate tax bill, but House

Republicans have said they would not do the same unless the Senate also approves authorizing provisions in comprehensive energy legislation.

6-7-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Subcommittee mark-up probably June 10.

House Energy & Water Development Committee mark-up maybe June 14.

Senate Energy & Water Development Subcommittee mark-up, maybe this week.

House Interior & Related Agencies (Energy Conservation) Subcommittee mark-up (was held June 3)

House Interior and Related Agencies Committee mark-up June 9.

Senate Interior and Related Agencies Subcommittee mark up maybe this week.

6-4-04 SunPower Philippines Solar Cells

SunPower Corporation announced it has delivered the initial lot of its A-300 solar cells from its Philippines manufacturing plant, less than 2 months after opening the facility. Per the article, solar cells from this lot reached 19.9% efficiency. Volume production is on track for the 2nd half of 2004.

The plant will initially produce 25 MW per year of silicon solar cells, and the building footprint is designed to allow future capacity expansion to more than 100 MW. More on these developments,

and photo of cell, at Solarbuzz: <http://www.solarbuzz.com/News/NewsASMA35.htm>

SunPower: <http://www.sunpowercorp.com/>

6-4-04 GEMZ Corp Subsidiary International Nanotechnology Corporation

GEMZ Corp announced it has formed a wholly-owned subsidiary, International Nanotechnology Corporation, and has signed a letter of intent with Terra Solar Development Corp. Upon completion of the acquisition, Dr. Zoltan Kiss will become CEO. Story at:

<http://www.nanoinvestornews.com/modules.php?name=News&file=article&sid=2825>

6-4-04 Sharp Miniature Solar Cells

The Sharp Corp has developed a new paper-thin solar cell. Two cells, the size of business cards, weighing 1 gram, can generate 2.6 Watts of electricity. Story at:

<http://www.eham.net/articles/8520?ehamsid=c2919d06454cbe83801d5551c910add7>

<http://story.news.yahoo.com/news?tmpl=story&u=/040528/1904/b052823ajpg>

6-4-04 DayStar Presentation

DayStar Technologies, Inc., announced that it is scheduled to present at the J.P. Turner and Company/Solidity Capital Corporation Summer Investment Conference in Colorado 11-12 June 2004. Story at:

http://biz.yahoo.com/prnews/040603/sfth077_1.html

6-4-04 Premier Homes "Zero Energy" Community (IREC Newsletter)

Premier Homes is now selling the first standard "zero energy" community of its kind in the Sacramento region - Premier Gardens. Consisting exclusively of "Zero Energy Homes", the community combines innovative construction and energy-efficient appliances with renewable energy systems such as on-demand water heating and solar electricity. Press highlighted through IREC at:

http://builtbypremier.com/P_Gardens/news_zeroenergy.html

See this, and more news, in the IREC Newsletter of June 4 at:

<http://www.irecusa.org/commout/enewsletter.html>

6-4-04 DOE Solar Program Review Meeting (Susan Moon)

The DOE Solar Energy Technologies Program Review Meeting Web site is live. The meeting will be held in Denver, Colorado, October 25-28, 2004. This is a key event for participants in the DOE Solar Program, bringing together scientists, engineers, academicians, industry professionals, and managers from throughout the solar energy community. Learn more about the meeting at:

http://www.eere.energy.gov/solar/review_meeting/

6-4-04 "Solar Power 2004"

Registration has opened for "Solar Power 2004", which will be held in San Francisco, California 18-21 October 2004. The event is being jointly presented by the Solar Electric Power Association and the Solar Energy Industries Association, and is co-hosted by the San Francisco Public Utilities Commission and the Pacific Gas and Electric Company. Information at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNACO220.htm>

Solar Power 2004 Website: <http://www.solarpower2004.com/>

6-4-04 Update on Bonn Renewables Conference

See SolarAccess for an update on proceedings at the Bonn, Germany renewables conference at:

<http://www.solaraccess.com/news/story?storyid=6855>

6-4-04 Canada Renewables

Release of an RFP for 300 MW of green power in Ontario has been delayed, in the province's 4th amendment to the process since April 28. The RFP is the first step of generating 5% of total power capacity from renewables by 2007, and 10% by 2010. See the Canadian Association for Renewable Energies at: <http://www.renewables.ca/main/main.php>

6-4-04 New York Renewable Energy

Governor Pataki has called for 25% of the state's electricity to come from renewable energy sources by 2013. Thursday, a state administrative law judge released a 144-page recommendation on how to achieve that goal. It is subject to approval by the Public Service Commission. Story at:

http://www.wokr13.tv/news/state/story.aspx?content_id=949A5833-0882-46AC-ACC6-22D70F1EEA03

6-4-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Subcommittee mark-up June 10.

House Energy & Water Development Committee mark-up maybe June 14.

Senate Energy & Water Development Subcommittee mark-up, maybe week of June 7.

House Interior & Related Agencies (Energy Conservation) Subcommittee mark-up (was held June 3)

House Interior and Related Agencies Committee mark-up maybe June 9.

Senate Interior and Related Agencies Subcommittee mark up maybe week of June 7

6-3-04 Sanyo, Sharp, Kyocera Solar Production

Sanyo Electric Co., Ltd plans to boost its solar cell production capacity by around 140% to 153 MW in 2005. The company is currently constructing a building at its factory site in Osaka Prefecture to increase the annual solar panel production capacity there to 133 MW in 2005. And, Sanyo plans to increase annual production capacity at its production subsidiary in Shimane Prefecture by 20 MW from 30 MW now. Sharp is expected to expand its annual production capacity to 300 MW, and Kyocera Corp increased its solar panel output capacity by 25% to 100 MW in March, with plans to increase to 120 MW by the end of June. Story at: http://bizns.nikkeibp.co.jp/cgi-bin/asia/show/nsh_contents.pl?NSH_BNO=%32%35%34%30%35&NSH_KEY=%73%6f%6c%61%72&NSH_CHTML=%6e%73%68%5f%63%6f%6e%74%65%6e%74%73%2e%68%74%6d%6c

6-3-04 More on Hitachi Dye Sensitizing Solar Cells

Hitachi developed a prototype of a large panel of dye sensitizing solar cells, which it unveiled at the nanotechnology exhibition held in Tokyo 17-19 March. According to the article, its photoelectric conversion efficiency was 9.3% in the lab. See the article for more on the structure of these cells at:

http://bizns.nikkeibp.co.jp/cgi-bin/asia/show/nsh_contents.pl?NSH_BNO=%32%34%39%39%32&NSH_KEY=%73%6f%6c%61%72&NSH_CHTML=%6e%73%68%5f%63%6f%6e%74%65%6e%74%73%2e%68%74%6d%6c

6-3-04 Additional Coverage of Greatcell Solar

Greatcell Solar S.A. combined forces with Sustainable Technologies International of Australia to specialize in the Dye Solar Cell. Information at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6853>

Greatcell Solar: <http://www.greatcell.com/GSA%20Web%20English%2023102003/page2.html>

6-3-04 Organic Solar Cell

The German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety will fund a joint research project on organic solar cells by Germany's Hahn-Meitner-Institute, Covion Organic Semiconductors, and Aixtron. In this project, Aixtron will install an organic vapor phase deposition system at the HMI for deposition of organic thin films. Story at: <http://www.eurosemi.eu.com/cgi-bin/viewnew22.pl?id=5412>

6-3-04 Schott Solar Solutions

At the "renewables 2004" conference in Bonn, the Schott technology group is showing a portfolio of forward-looking PV, solar-thermic products and solutions. Information at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=NewsSearch&Search=&ResultCategoryType=2,7&NewsPageID=5&NewsID=1636701&template=2,2&currPage=1>

And related news on parabolic troughs:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=NewsSearch&Search=&ResultCategoryType=2,7&NewsPageID=5&NewsID=1634636&template=2,2&currPage=1>

6-3-04 XsunX and MV Systems Venture

XsunX, Inc. announced it has entered into a letter of intent with Colorado-based MVSystems, Inc. The terms of the proposed agreement provide XsunX with exclusive licensing of MVSystems patent portfolio and technical know-how for use by XsunX in the development, commercialization and licensing of processes for the manufacture of semi-transparent PV glazing technologies. It also calls for a cooperative venture in which MVSystems will essentially operate as the R&D arm of XsunX under the guidance of Dr. Arun Madan, MVSystems founder and president. Story at:

http://www.primezone.com/newsroom/news_releases.mhtml?d=58575

MVSystems: <http://www.mvsystems.info/>

XsunX: <http://www.XsunX.com/>

6-3-04 More on Konarka and Chalmers

Patent assets related to Konarka's development of PV products have been transferred from Chalmers University of Technology to Konarka. The relationship also represents the beginning of a longer research cooperation between Chalmers and Konarka. More at:

http://www.eurekalert.org/pub_releases/2004-06/src-ifc060204.php

6-3-04 PV Catapult Project

A half-day session on the PV Catapult project will take place 9 June 2004 at the 19th European PV Conference in Paris. PV Catapult: <http://www.pvcatapult.org/>

6-3-04 Clean Energy Industry Growth Forum

The 17th NREL Industry Growth Forum will showcase at least 35 promising clean energy companies poised for market growth. NREL is now accepting applications from clean energy companies who would like to present to an audience of the country's leading clean energy investors. Details at:

<http://www.incubator.com/nrel/apply.shtml>

6-3-04 PV System Technologies

G. Cramer, M. Ibrahim, and W. Kleinkauf describe the current state-of-the-art and perspectives of solar PV as a solution in grid-connected and decentralized power supply structures in a story at ReFocus: http://www.re-focus.net/features/archive/janfeb04/janfeb04_full_2.html

Also see other renewable energy news, such as an overview of the Bonn renewables conference, solar rebates in Austin, Texas, and news briefs, at ReFocus: <http://www.re-focus.net/>

6-3-04 U.K., Bishops Square PV

A £180,000 grant from the Energy Saving Trust and the Department of Trade and Industry will partially fund a solar installation at Bishops Square, which will cover about 600 m². Story through Solarbuzz at: <http://www.pandct.com/spot.asp?param1=5411>

6-3-04 California Energy Commission Workshop

The California Energy Commission's Integrated Energy Policy Report Committee and the Renewables Committee will conduct a workshop on renewable distributed generation, to seek input for the 2004 IEPR update. The workshop will be held June 8 in Sacramento. More at: http://www.energy.ca.gov/2004_policy_update/notices/2004-05-27_workshop_notice.html

6-3-04 World Bank Renewables Support

The World Bank said it would increase the amount of money it lends for renewable energy projects by 20% every year for the next 5 years. Story at: http://news.yahoo.com/news?tmpl=story&u=afp/20040602/sc_afp/environment_energy_040602170802

6-3-04 Hawaii Renewables

At least 20% of a utility's electricity sales must be from renewable energy sources by 2020 under the "20/20 bill" signed by Governor Linda Lingle. Story at: <http://the.honoluluadvertiser.com/article/2004/Jun/03/In/In38a.html>

6-3-04 More on Renewables 2004 Conference in Germany

Coverage of the opening of Renewables 2004 in Bonn can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6848> and sites such as: <http://www.euractiv.com/cgi-bin/cqint.exe?204&OIDN=1507788&-tt=eq>

6-3-04 Renewable Energy & Energy Efficiency Expo and Ice Cream Social (Ken Bossong)

The 7th Annual Congressional Renewable Energy and Energy Efficiency Expo and Ice Cream Social will be June 8, 2004, 10-5, in the Caucus Room on Independence Avenue, S.E., in Washington, DC. Over 50 companies will be represented. The Expo is co-sponsored by members of the Sustainable Energy Coalition and the House and Senate Renewable Energy and Energy Efficiency Caucuses. [Sustainable Energy Coalition press, Ken Bossong, Kbossong@hotmail.com]

6-3-04 U.S., Fiscal Year 2005 Energy Appropriations

House Energy & Water Development Subcommittee mark-up June 10.
House Energy & Water Development Committee mark-up maybe June 14.
Senate Energy & Water Development Subcommittee mark-up, maybe week of June 7.
House Interior & Related Agencies (Energy Conservation) Subcommittee mark-up June 3.
Senate Interior and Related Agencies Subcommittee mark-up maybe week of June 7.
The House Appropriations Committee Chairman's proposed spending allocations include \$27.99 billion for Energy and Water, up slightly from \$27.26 billion in FY 04.

6-2-04 ARISE Distribution Agreement

ARISE Technologies Corporation and EMJ Data Systems Ltd. announced that the companies have reached a distribution and financing partnership agreement, subject to TSX Venture Exchange approval. EMJ will assume responsibility for order fulfillment, will purchase all existing ARISE inventory, and will place orders for future inventory requirements. More on these developments at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO218.htm>
ARISE: <http://www.arisetech.com/>

6-2-04 Solar Electric Systems in Hawaii

The newly formed Maui-based California and Hawaiian Solar Power Co. is looking to install solar electric systems at no cost to commercial businesses as long as companies agree to buy the power the company produces. Story, including activities in Hawaii, through Solarbuzz at:

<http://www.bizjournals.com/pacific/stories/2004/05/31/focus5.html>

6-2-04 California, PV Application at Pump Station

The Las Gallinas Valley Sanitary District serving residents of Northern Marin County recently completed an 81-kW solar power system that provides power to its reclamation pump station. The District selected Prevalent Power, Inc. to engineer, design and install the system, which is made up of 504 BP Solar 3160B PV modules. Story and photo at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6838>

Prevalent Power: <http://www.prevalentpower.com/>

6-2-04 Japan, PV at Tsukuba Open Space Laboratory

PV installations at this location include circular cells fitted into a metal point glazing curtain wall, amorphous silicon cells fitted in the glazed roof of the central atrium, and a semi-transparent PV portico at the top of the front façade. All were designed to harmonize with the architecture. Story highlighted by pv-uk.org and reported by Renewable Energy World May-June 2004 at:

http://www.ixj.com/magsandj/rew/2004_03/tsukuba.html

6-2-04 Japan, PV at AIST Tsukuba Center

This month's issue of PV Activities in Japan (subscription) includes several pages of text and photos on the National Institute of Advanced Industrial Science and Technology (AIST) installed PV systems at the Tsukuba Center. The PV installations at AIST Tsukuba center are called "Mega Solar Town" because the total capacity of new installed PV and existing systems exceeds 1 MW. Several types of PV modules are being demonstrated and evaluated. [This, and more news in "PV Activities in Japan", Osamu Ikki, RTS Corporation, ikki@rts-pv.com]

6-2-04 Thin Film PV Partnership LOI (Ken Zweibel)

The new Thin Film PV Partnership re-competition, focused on research and technology development work in copper indium diselenide and its alloys, cadmium telluride, and amorphous silicon, is now available for proposals. This is a major effort, with total potential funding of about \$10M per year for 3 years. The LOI can be viewed and downloaded at:

http://nreldev.nrel.gov/business_opportunities/solicitations_rfps.html

6-2-04 South Africa Solar Power Systems

The government has invited interested parties to bid for the contract to provide 40,000 solar power systems to rural areas as part of its electrification programme. Story through Solarbuzz at:

http://www.bday.co.za/bday/content/direct/1_3523_1628537-6078-0.00.html

6-2-04 International Renewables Conference, Bonn

The International Conference for Renewable Energies takes place 1-4 June 2004 in Bonn. For updates throughout the conference - Renewables 2004 Bulletin — see:

<http://www.iisd.ca/sd/ren2004/>

<http://www.iisd.ca/sd/ren2004/html/sdvol95num1e.html>

Courtesy of Wolfgang Koch, other links include: Conference Programme

<http://www.renewables2004.de/en/programme/default.asp>

Live Feed: <http://www.bundesregierung.de/> Conference site:

6-2-04 IEA on Clean Energy (Merwin Brown)

"Renewables could play a key role in the global energy mix with further commitment to research and development and technology innovation, but our study shows that unfortunately we still have a long way to go," said IEA Executive Director Claude Mandil. Mandil will present the study "Renewable

Energy - Markets and Policy Trends in IEA Countries" at the renewable energy conference in Bonn this week. Story at: <http://www.abc.net.au/news/newsitems/s1120449.htm>

6-2-04 19th European Photovoltaic Solar Energy Conference and Exhibition

This conference and exhibition is being held in Paris 7-11 June 2004. The press release 1 June 2004 states that 1,800 participants are expected and 237 exhibitors have already registered. For details, see: <http://www.photovoltaic-conference.com/index.html>

6-2-04 EuroSun2004 & Intersolar 2004

EuroSun2004 will be held in Freiburg, Germany, 20-23 June 2004, followed by Intersolar 2004 24-26 June, Europe's largest trade fair for solar technology. More details at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6839>

<http://www.eurosun2004.de/>

http://www.intersolar.de/index_e.html

6-2-04 World Renewable Energy Congress VIII and Expo (Kevin Eber)

The World Renewable Energy Congress (WREC) will take place in Denver, Colorado, from August 29th through September 3rd. Held every two years, the Congress provides an international forum that attracts several hundred delegates from nearly 100 countries. This year's plenary speakers include Stephen Timms, the U.K. Minister of State for Energy, e-commerce, and Postal Services. An Energy Technology Expo is also running in conjunction with the Congress. See the WREC website at: <http://www.nrel.gov/wrec/>

Highlighted at EERE Network News:

<http://www.eere.energy.gov/news/archive.cfm/pubDate=%7Bd%20%272004%2D06%2D02%27%7D>

6-2-04 Renewable Energy Weekly News

For the latest weekly renewable energy news from SolarAccess, visit:

<http://www.solaraccess.com/newsletter/weekly.html>

6-2-04 Hybrid Solar Product

PV Systems is launching Solar Synergy - a hybrid solar product combining PV and solar water heating in one roof-integrated framework - at resource 04, 7-10 June 2004. Story through PV-UK at:

<http://www.resource04.com/newsdetails.jsp?id=17>

PV Systems: <http://www.pvsystems.com/>

6-2-04 Photovoltaic Energy Barometer, Report ([pv-uk.org](http://www.pv-uk.org))

This report, which includes PV capacity installed in the European Union and Poland in 2002 and 2003, share of on- and off-grid applications in 2003, PV cell production by country, industry growth, and much more information can be downloaded at: http://www.energies-renouvelables.org/observ-er/stat_baro/eufores/baro160.pdf

6-2-04 Germany's PV Market

Germany is expecting 50% growth in PV installations this year, a good part of which will be in the form of MW-scale PV plants. Story highlighted by [pv-uk.org](http://www.pv-uk.org) and reported in Renewable Energy World, May-June 2004 at: http://www.jxj.com/magsandj/rew/2004_03/pastures_new.html

6-2-04 Renewables in the U.K.

The "Renewables Network Impact Study" commissioned by DTI and the Carbon Trust highlights the planning system and transmission and distribution networks as the major potential barriers to reaching the Government's target to have 10% of electricity generated from renewables by 2010, with a doubling by 2020. Story through [pv-uk.org](http://www.pv-uk.org) at:

<http://www.practicalhelp.org.uk/news/index.cfm?ty=1&newsid=253>

6-2-04 California Energy Commission Guidebooks (Nancy Hassman)

The Renewables Portfolio Standard Eligibility Guidebook, application forms, and New Renewable Facilities Program Guidebook are on line at:

<http://www.energy.ca.gov/portfolio/documents/index.html>

6-2-04 SolarOne Web site

SolarOne has reformatted its Web site, as part of pointing the company towards "application-oriented" products. Information on this transformation at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6842>

<http://www.solarone.net/>

6-1-04 HelioVolt Award

HelioVolt Corporation has been awarded a Phase I SBIR contract by the Missile Defense Agency to further develop its device model for predicting the performance of CIGS PV devices, and then use the model to determine the feasibility of using HelioVolt's patented FASST(tm) (FASST™ is a trademark of HelioVolt Corporation) synthesis process to produce devices for electric power generation in high-altitude airships. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNATE23.htm> and SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6823>

HelioVolt: <http://www.heliovolta.com/>

6-1-04 Uni-Solar Thin-Film PV Orders

United Solar Ovonic announced shipment of 500 kW of its flexible thin-film solar PV product to Solar Integrated Technologies. The shipment is part of the first 2.4-MW order placed by SIT since it signed an expanded strategic supply agreement with Uni-Solar in April. Under the agreement, SIT is expected to purchase more than 5 MW of Uni-Solar's PV in 2004, nearly 20% of Uni-Solar's annual production capacity. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6801>

Uni-Solar: <http://www.uni-solar.com/>

Solar Integrated Technologies: <http://www.solarintegrated.com/>

6-1-04 ICOS Solar Cell Inspection Systems

ICOS Vision Systems Corporation NV announced the launch of inspection systems for solar cell production. The company plans to demonstrate these products at the 19th European PV Solar Energy Conference and Exhibition 2004, 7-10 June. Story at:

<http://www.tmcnet.com/usubmit/2004/May/1044326.htm> and

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040526005534&newsLang=en

6-1-04 Sanyo Solar Cell Production

For those with a subscription, this reference was posted today: Sanyo Elec To Hike Solar Cell Production Capacity By 140%, Nikkei Interactive 01:55.

6-1-04 BP Solar Contract

BP Solar announced a US\$20M contract to supply solar power products and services to Thailand-based Solartron Co. Ltd. The products and services will be used by Solartron to construct solar power systems for the government-funded Mega Rural Electrification Project, which will light up to 120,000 homes. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsASPR114.htm>

BP Solar: <http://www.bpsolar.com/>

6-1-04 Mission to UN Solar BIPV Project

The U.S. Mission to the United Nations in Geneva is set to become the first U.S. diplomatic building with a building-integrated solar electric system. Solar Design Associates, Inc., of Harvard, Massachusetts provided design and engineering for the solar electric systems, and will oversee

installation. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6797>
Solar Design Associates: <http://www.solardesign.com/>

6-1-04 California, Glendale PV System

The Glendale City Council approved the Glendale Water & Power-Glendale Community College Energy Partnership proposal to construct a split-level parking structure with a 400-kW solar PV carport on two floors. Details and the structure of a forthcoming Request for Bid for installation of the PV system were to be determined. Story and contact information at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR383.htm>

6-1-04 RWE Schott Solar and Permacity

RWE Schott Solar, Inc. is working with Permacity Corporation to help develop the PV market in the Los Angeles area. Said Marc Roper, director of sales for RWE Schott Solar, "Permacity brings a new level of financial sophistication to the PV value proposition, making PV an even more economical choice for its commercial customers and a profitable business for Permacity. With the company's expertise in commercial real estate, it has an insider's understanding of this market segment and can work to help building owners with tax incentives and capital expenditures relevant to their individual needs". Story and photos at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR381.htm>
RWE Schott Solar: <http://www.rweschottsolar.us/>
Permacity: <http://www.permacity.com/>

6-1-04 Massachusetts, PV Action Plan

See "Crafting a Photovoltaic Action Plan in the Bay State" authored by Robert Pratt, director of the state's Renewable Energy Trust, which is administered by the Massachusetts Technology Collaborative. Article at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6789>
MTC: <http://www.masstech.org/netmac.asp>

6-1-04 California, PV System for Royal Petroleum

Sun Power & Geothermal Energy completed a 36.6-kW DC solar PV system for the Royal Petroleum Company headquarters in Santa Rosa, California. The system is mounted on the corrugated metal roof of the headquarters building and is monitored real time by Sun Power's SunSpot® PV monitoring system, which sends live energy generation data over the Internet to verify performance and return on investment. Story and photo at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR385.htm>
Sun Power & Geothermal Energy: <http://www.sunpowergeo.com/>

6-1-04 Total Energie Solar Systems

The U.S. AID has awarded a telecommunications project to Hialeah Telecommunications for a project in Peru using Total Energie PV systems. Total Energie Latin America will provide 127 35-kW PV systems for the project called "Cobertura con Calidad". Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsSAPR26.htm>
Total Energie: <http://www.total-energie.fr/eng/index.htm>

6-1-04 German Solar Industry

The German solar industry doubled its production in 2003 compared to 2002, and hopes for similar growth this year. According to a report presented in Berlin, the industry raised production from 38 MW in 2002 to 83 MW in 2003, and forecasts a growth of 180 MW for 2004. Story at: http://www.dw-world.de/english/0,,1431_A_1220179_1_A,00.html

6-1-04 PV Analyst at Strategies Unlimited (Tim Carli)

Strategies Unlimited announced the appointment of Paula Mints to the position of senior analyst. In this position, Mints has primary responsibilities in SU's market research and consulting practices in PV technologies and other areas of the energy and utility industries. SU will release a number of industry reports in the next 6 months that include "Global Analysis of Photovoltaic Markets &

Application Forecast", "Analysis of Manufacturer Shipments and Capacity", and "Balance of Systems (BOS) Market Overview". [Strategies Unlimited press release 27 May 2004]

6-1-04 Using More Renewable Energy, Report

"A Balanced Energy Plan for the Interior West," prepared by Western Resource Advocates, a Boulder, Colorado-based environmental policy group, concluded that using more renewable energy and increasing energy efficiency in Colorado, Utah, Arizona, New Mexico, Nevada, Wyoming and Montana would lower energy costs, stabilize electric system reliability, and protect public health and the environment. The report is available at: <http://www.westernresourceadvocates.org>
Press at: <http://www.denverpost.com/Stories/0,1413,36~33~2169442,00.html>

6-1-04 Finance Forum & Directory (Mike Eckhart)

"Renewable Energy Finance Forum: Wall Street," will take place June 23-24, 2004 at the Metropolitan Club in New York City. Sean Harrigan, President of the Board of the California Public Employees Retirement System (CalPERS) will deliver a keynote speech at this forum. CalPERS recently announced that it will commit up to \$200 million as part of the Green Wave initiative led by California Treasurer Phil Angelides. Harrigan will join more than 40 leaders in clean and renewable energy finance to present perspectives on the current renewable energy marketplace and review recent transactions. Speakers include Dan Reicher, a conference co-chair, former U.S. Assistant Secretary for Energy Efficiency and Renewable energy, and president of New Energy Capital.

The American Council on Renewable Energy announced it will publish a North American Energy Finance Directory, a draft of which will be released at its finance conference. Information at ACORE: <http://www.americanrenewables.org>

6-1-04 Austin Energy's Solar Rebate Program

Austin Energy's solar rebate program which offers a \$5/watt incentive "to encourage its customers to purchase and install grid-connected solar energy systems" was set to go on line today. Story at: http://www.austinchronicle.com/issues/dispatch/2004-05-28/pols_naked3.html
http://austin.bizjournals.com/austin/stories/2004/05/24/daily42.html?jst=b_in_hl

6-1-04 Certified Energy Practitioners

The North American Board of Certified Energy Practitioners announced completion of the 2nd administration of its Solar PV Installer Certification Exam, certifying an additional 44 individuals. The next exam is scheduled for September 18, 2004. Story and contact information at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6787>

6-1-04 Solar Cars, Bikes, Bands, and Boats

Solar cars developed by 18 teams from 10 countries will be on the road for the Phaethon 2004, a week-long rally race to commemorate the 13-29 August Summer Games. Teams will drive south from Athens to Olympia, then north to Delphi and back to Athens. Story at: <http://www.canoe.ca/NewsStand/CalgarySun/News/2004/05/28/476378.html>

The 2004 Formula Sun Grand Prix, featuring cars built by colleges and universities from North America was held May 19-21 at Heartland Park Topeka. Story at: <http://www.solaraccess.com/news/story?storyid=6809>

With speeds averaging over 30 miles an hour, the Saint Thomas Academy Experimental Vehicle Team set a new Solar BikeRayce national record, completing 100 km in 1:52:36 at the annual Solar BikeRayce USA. Story at: http://biz.yahoo.com/prnews/040526/cgw059_1.html
Solar BikeRayce USA: <http://www.solarbike.org/>

A futuristic band made up of robotics and powered by solar cells has been created by Long Beach Polytechnic High School's AP Physics students. A film student is making a DVD capturing the

building of Polysonic, which will be ready to ship in July. Story at:
<http://www.gazettes.com/grunionpoly05272004.html>

A student team from Canyon High School of Anaheim took first place in the 3-day Solar Cup, a solar-powered boat race sponsored by the Metropolitan Water District of Southern California. Story at:

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040523005097&newsLang=en

In related news...

6-1-04 "Solar Catalytic Hydrogen Generator"

Solar Hydrogen Energy Corporation's test unit, called a "Solar Catalytic Hydrogen Generator" was recently put into field operation at the APS Solar Test and Research facility in Phoenix, Arizona. More on the concept and field tests, including photos of the solar concentrators, at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6828> and http://www.h2cars.biz/artman/publish/article_544.shtml SHEC: <http://www.shec-labs.com/> APS STAR facility: http://www.aps.com/my_community/STARtour/default.html?seq=1

MAY

The NCPV Hotline will be off-line May 24 – 31.

5-21-04 SolarWorld AG Update

After three months, solar cell sales (8.8 MW) have almost matched total 2003 numbers (9 MW). More on the corporate update for SolarWorld AG can be found at:

http://www.solarworld.de/eng/englisch/pages/home_idx.htm

5-21-04 Jacksonville, Florida, City Energy Program

JEA and its energy services subcontractor, Chevron Energy Solutions, have installed solar systems at City Hall, the Prime Osborne Convention Center, and the Police Memorial Building. JEA is among the top utility producers of solar power nationwide, and has brought 222 kW of solar power on line since launching the solar initiative in 1999. And, JEA receives credit for 5,188 kW being generated through a Solar Initiative Program started in 2002. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR379.htm>

JEA: <http://www.jea.com/>

5-21-04 Massachusetts Collaborative

A Massachusetts Technology Collaborative incentive program called "Sun Power for New Homes" offers qualified homebuilders the same types of incentives for PV systems as existing-home owners. Says John Livermore who manages the program for Sun Power, "We're trying to encourage builders and individuals to include solar electricity systems as a feature - not an option - in new homes". Story at:

<http://business.bostonherald.com/realestateNews/view.bg?articleid=28785>

5-21-04 California Energy Commission Solar Schools

The California Energy Commission has approved implementation of the Solar Schools initiative. More about this program can be found at:

http://www.consumerenergycenter.org/solar_schools/index.html

Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO174.htm>

5-21-04 California, SolarCraft Services PV

SolarCraft Services has secured a contract to design and install a 106-kW PV system using RWE Schott Solar panels for Avalon Natural Products of Petaluma, a manufacturer of natural and organic personal products. SolarCraft will install a non-penetrating roof mounting system, and ASE 300 solar panels. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6779>

RWE Schott Solar: <http://www.solaraccess.com/marketplace/compdetail?compid=1418>

5-21-04 California, Shell Solar Installation (Tina Nickerson)

Dale Wolfgram, executive director of the Los Angeles Lutheran Junior and Senior High School, coordinated the installation of a 52-kW Shell Solar electric system at the school, comprising more than 400 Shell Solar SP140 panels. [Tina Nickerson, Shell Solar Press with Photos]

Story and photos at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR380.htm>

Shell Solar: <http://www.shell.com/home/Framework?siteId=shellsolar>

5-21-04 Washington, DC Renewables

A hearing is taking place today in Washington, DC regarding a bill that would require a percent of the City's electricity to come from renewable energy sources. The DC Clean Energy Bill is supported by a broad coalition. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6784>

5-21-04 More on Global Solar Energy Canopy

Additional coverage of Global Solar's canopy for the Antelope Valley Transit Authority, and photos, can be found at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR378.htm>
Global Solar: http://www.globalsolar.com/GLOBAL_FLASH.htm

5-21-04 Interstate Renewable Energy Council Newsletter

For the latest on Million Solar Roofs to Zero Energy Buildings to Schools Going Solar, see the IREC newsletter at: <http://irecusa.org/>

5-21-04 U.S. FY 2005 Budget Resolution

The Senate will break for a week without having passed the FY '05 budget resolution, which has been passed by the House. Environment & Energy Daily (subscription) reports that even without a final budget resolution, the House Appropriations Chairman met last week with his 13 appropriations subcommittee chairmen to distribute tentative allocations to start moving the bills. [E&E Publishing: E-mail: pubs@eenews.net * Phone: 202-628-6500]

5-21-04 The Solar Sound Stage

Lollapalooza will power one of its stages with solar. Tour founder Perry Farrell said he's extremely impressed that the custom-built sound and stage system runs without fail. The Solar Sound Stage will be headlined by Mike Watt and the Secondmen. Lollapalooza will also feature Morrissey, Sonic Youth, Flaming Lips and Polyphonic Spree. Story at: <http://www.clickondetroit.com/entertainment/3327515/detail.html>

5-20-04 Global Solar Canopy

Global Solar Energy has designed and installed a PV canopy for the Antelope Valley Transit Authority in California. The canopy includes 405 ASE 300/DGF modules, a Xantrex PV 100208 DC to AC inverter, and a 125kVA 208/480 step-up isolation transformer. Story at: http://biz.yahoo.com/bw/040519/195894_1.html
Global Solar: <http://www.globalsolar.com/mediacenter/newsreleases/2004/GSE040519.htm>

5-20-04 Greatcell Solar

Greatcell Solar S.A. of Switzerland combined forces with Sustainable Technologies International of Australia to become a European leader in dye-solar cells (DSC). Greatcell Solar's website-corporate information gives 2004 as the timeframe to establish first-phase manufacturing in Europe, and 2005 to establish volume manufacturing in Europe. For more on this company, including a recent grant, see Photon International (hardcopy) May 2004. Greatcell: <http://www.greatcell.com/GSA%20Web%20English%2023102003/page2.html>

5-20-04 Applied Films Solar Cell Coating Process

In cooperation with the Fraunhofer Institute for Solar Energy, Applied Films Corporation has developed a new coating process technology for wafer-based solar cells. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUTE13.htm>
Applied Films: <http://www.appliedfilms.com/>

5-20-04 Connecticut Solar Program

The Connecticut Clean Energy Fund approved \$2 million for a new residential solar PV program to complement its existing commercial PV program. More on the program at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6765>
Connecticut Clean Energy Fund: <http://www.ctcleanenergy.com/>

5-20-04 TrueSolar Solutions & So. Cal Edison

California Energy Markets (subscription) reports that the California Public Utilities Commission

has rescinded its previous approval of a power-purchase agreement between Southern California Edison and solar-power developer TrueSolar Solutions Inc. See Decisions at CPUC <http://www.cpuc.ca.gov/>

5-20-04 U.S. House Budget Resolution

The House passed the FY 2005 budget resolution last night, which now must be reconciled with the Senate. With this version of the resolution, Congress would use the \$821 billion figure for discretionary spending as its ceiling in drafting the 13 annual appropriations bills. Within the resolution are specific function categories, with energy being function 270. For 270, the budget deal allocates \$3.03 billion, down from FY 04 of \$3.59 billion.

House Budget, Legislative Text, etc.: <http://www.house.gov/budget/>

5-20-04 U.S. House Science Hearing Summary

An overview of the May 19 hearing on Efficiency and Renewable Energy Resources can be found at: <http://www.house.gov/science/press/108/108-252.htm>

Prepared Testimony can be found under "Democratic Office" under the Energy Subcommittee hearing at the House Science Website.

5-20-04 Solar-powered Plane

The National Aeronautics and Space Administration is providing \$63,000 in seed money from its Institute for Advanced Concepts for the University of Missouri-Rolla to pursue a new idea for a solar-powered plane. The machine they plan to build will be a bit larger than an eagle, and will use solar energy to flex its wings during the day, climbing higher, and then soar through the night. Story at:

http://abcnews.go.com/sections/SciTech/DyeHard/flapping_wings_airplane_dyehard_040519-1.html

5-20-04 More on Worldwatch Report

Additional coverage of the Worldwatch report on the future of renewable energy can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6772>

5-19-04 Mass Production of PowerGlaz

BP Solar and Romag will start mass production of their new PowerGlaz later this month. Said Romag Sales Director Keith Morrison, "By using the latest processing technology, we will be able to offer PowerGlaz in a range of sizes up to 3.3m x 2.2m." Story and photos at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUPT20.htm>

BP Solar: <http://www.bpsolar.com/>

Romag: <http://www.romag.co.uk/>

5-19-04 WorldWater Solar Shipment

WorldWater Corporation announced it is shipping an additional \$1.75 million of equipment to the Cerro Coso Community College solar jobsite in Ridgecrest, California. WorldWater is the exclusive PV supplier. Story at: <http://biz.yahoo.com/pz/040519/57753.html>

WorldWater: <http://www.worldwater.com/>

5-19-04 Sun Power & Geothermal Energy Expert

Sun Power & Geothermal Energy has hired renewable energy financial expert Todd Lindstrom. Lindstrom will be Director, Business Development, shaping Sun Power's financial offerings for solar energy systems. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO214.htm>

Sun Power & Geothermal Energy: <http://www.sunpowergeo.com/>

5-19-04 Energy Tax Provisions and "Green Bonds" Amendment

The Solar Energy Industries Association has called on the U.S. House of Representatives to include renewable energy provisions in its version of the JOBS Act, including a "green bonds" amendment authored by Senator Wayne Allard that's included in the Senate version that passed last week. More on this legislation and SEIA's position at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6762>

SEIA: <http://www.seia.org/>

5-19-04 California Senate Solar Bill

A percentage of new homes in California would have to be equipped with solar energy systems under a bill approved Monday by the state Senate. The requirement would start in 2006. Story through Solarbuzz at: <http://www.sfgate.com/cgi-bin/article.cgi?file=/news/archive/2004/05/17/state1849EDT0102.DTL>

Also: <http://sacramento.bizjournals.com/sacramento/stories/2004/05/17/daily10.html>

5-19-04 EPIA General Meeting

EPIA's May 7 Annual General Meeting opened with the conference "Let's Bet on the Sun". All presentations from the conference are now on line. <http://www.epia.org/>

5-19-04 TNO and ECN Collaboration (M.J.M. Lortzer)

TNO and ECN are going to collaborate strategically in the field of energy in the built environment. The new collaboration will result in a broad package of services for the market, and effective input of government resources. [Joint corporate communication through E-mail pressinfo@tno.nl; information available from TNO-Berrie van Kampen E-mail b.vankampen@bouw.tno.nl or ECN-Marije Lafleur E-mail lafleur@ecn.nl]

5-19-04 U.S. State and Utility Clean Energy Successes (Kevin Eber)

See coverage of New York, Pennsylvania, Wisconsin, and Pacific Northwest clean energy program successes at EERE Network News May 19:

<http://www.eere.energy.gov/news/archive.cfm/pubDate=%7Bd%20%272004%2D05%2D19%27%7D#6879>

5-19-04 South Korea Renewables Investment

South Korea will invest 250 billion won (U.S. \$213M) in developing renewable energy over the next 5 years according to the Ministry of Commerce. Information at:

<http://www.yonhapnews.co.kr/Engnews/20040519/300100000020040519163955E0.html>

5-19-04 Polish Energy Law

A series of amendments to Poland's energy law relating to further promotion of renewables will result in major changes to the current environment for renewable energy projects. Information at:

<http://www.gasandoil.com/goc/news/nte42061.htm>

5-19-04 More on the U.S. House Science Subcommittee Hearing Today

The House Science Energy Subcommittee hearing on "The Impact of Federal Energy Efficiency and Renewable Energy Research and Development Programs" will hear from Steve Nadel, executive director, American Council for an Energy Efficient Economy; Paul Konove, president, Carolina Country Builders of Chatham County, Inc.; Vivian Loftness, head, School of Architecture, Carnegie-Mellon University; John Carberry, director, Environmental Technologies, DuPont Central Research & Development; Peter Smith, president, New York State Energy Research and Development Authority; Daniel Sosland, executive director, Environment Northeast.

5-19-04 More on Solar-powered Boat Competition

Twenty-two southern California high schools are working to finish their solar-powered boats to compete in the Solar Cup this weekend. The 3-day event helps promote stewardship of natural resources and alternative technologies through a series of endurance and sprint races. More at: http://biz.yahoo.com/bw/040518/185786_1.html

5-19-04 More on Solar Car Competition

Gato Del Sol, the University of Kentucky's solar car, returns to competition this week in the Formula Sun Grand Prix 2004 in Topeka, Kansas. Story at: <http://www.courier-journal.com/features/2004/05/18/solarcar.html>

5-19-04 U.S. FY 2005 Appropriations

There's much speculation as to what might happen with the FY 05 appropriations process, given the election year. The latest action is that a Congressional "agreement" has been reached on the FY 05 budget resolution for discretionary spending, which once passed can be used as the ceiling in drafting the 13 appropriations bills.

5-18-04 BP Research Grants to Delaware Universities

The University of Delaware and Delaware State University announced that BP and the BP Foundation have awarded them \$3.75 million in renewable energy research and products. The research will focus on developing higher efficiency solar cells at lower costs and a range of research on hydrogen fuel cell technology. The partnership with the University of Delaware includes a BP Solar donation of \$1.5 million in equipment, and a \$1.35-million grant to the Institute of Energy Conversion in support of its solar energy research program. Coverage at Solarbuzz: <http://www.solarbuzz.com/News/NewsNATE22.htm> and http://biz.yahoo.com/prnews/040517/nym172_1.html and <http://www.delawareonline.com/newsjournal/local/2004/05/18bphelpsfundsola.html>
BP Solar: <http://www.bpsolar.com/>
IEC: <http://www.udel.edu/iec/index.html>

5-18-04 "Factor of Five" - Interview with Solar Pioneer Bill Yerkes

Bill Moore interviews Bill Yerkes on cutting the cost of solar cells in an article at EVWorld (subscription). Fifty years ago, Bell Lab scientists introduced us to the silicon PV chip, and steady progress has been made since. The relatively new company, Solaicx, at which Yerkes is Chief Technology Officer, plans to reduce costs through an advanced manufacturing process for crystalline silicon PV. Solar cells, ethanol, and more at EVWorld: <http://www.evworld.com/view.cfm?section=article&storyid=697> (subscription)
Solaicx: <http://www.solaicx.com/>

5-18-04 Energy Conversion Devices 3rd Quarter Results

Energy Conversion Devices, Inc. announced its operating results for the 3rd quarter ending 31 March 2004. According to the article, United Solar Ovonic (a 100% owned subsidiary) reached an agreement with Solar Integrated Technologies, Inc. for sales of over 5 MW of product in 2004 with provisions for larger volumes in future years; received a 1.25-MW order from Sunset of Germany with a commitment for another 3.5 MW in FY 2005; and received a 1-MW order from ThyssenKrupp of Germany. Also, the Air Force Research Laboratory selected United Solar Ovonic to provide 3 kW of lightweight solar cells for one of its satellites, and Lockheed Martin entered into a contract with United Solar Ovonic to supply solar cells for evaluation in a high-altitude airship program. Information at: http://biz.yahoo.com/prnews/040517/dem026_1.html
ECD Press: http://www.ovonic.com/news_events/5_2_press_releases/20040517b.htm

5-18-04 Solar and Wind-Powered Hydrogen

The Illinois Coalition is receiving a \$54,000 grant from Illinois Clean Energy Community Foundation to develop Illinois' first hydrogen fueling station powered by renewable resources. The project will be housed at Rockford's Greater Northwest Chicagoland Regional Airport. Hydrogen generated by solar and wind will provide stationary heat and power for an airport building and transportation fuel for the zero-emission airport vehicles. Story at: http://biz.yahoo.com/bw/040518/185184_1.html

5-18-04 Renewable Energy Certificates

An article about emerging markets in Renewable Energy Certificates can be found at: http://www.energypulse.net/centers/article/article_display.cfm?a_id=723

5-18-04 Crystalline Silicon Solar Cells and Modules Workshop (Sandy Padilla)

The "14th Workshop on Crystalline Silicon Solar Cells & Modules: Materials and Processes" will be held August 8-11, 2004 in Winter Park, Colorado, USA. The workshop is intended to address the fundamental properties of PV-Si, new solar cell designs, and advanced solar cell processing techniques. A combination of oral presentations by invited speakers, poster sessions, and discussion sessions will review recent advances in crystal growth, new cell structures, new processes and process characterization techniques, and cell fabrication approaches suitable for future manufacturing demands. The workshop will provide a forum for an informal exchange of technical and scientific information between international researchers in the photovoltaic and relevant non-photovoltaic fields. It will offer an excellent opportunity for researchers in private industry and universities to prioritize mutual needs for future collaborative research. For more information or to register, visit the website at: http://www.nrel.gov/silicon_workshop/ or contact Dr. Bhushan Sopori at: bhushan_sopori@nrel.gov or Sandy Padilla at sandy_padilla@nrel.gov or Sara Huntley at sara_huntley@nrel.gov

5-18-04 WorldWater Corp. Energy Grant

WorldWater Corporation announced it has been awarded a \$377,500 grant from 1st Rochdale Cooperative Group Ltd of New York City to join forces in developing solar projects in New York. Said Anand Rangarajan, WorldWater's Executive Vice President, "The combination of our technology and project implementation expertise, together with 1st Rochdale's aspiration to provide green power to its customer base, is expected to bring cost effective solar power solutions to thousands of customers." Story at: <http://biz.yahoo.com/pz/040518/57685.html>
WorldWater: <http://www.worldwater.com/>

5-18-04 Solar Power 2004

See the website for Solar Power 2004, conference and expo, 18-21 October in San Francisco, California, at: <http://www.SolarPower2004.com/>

5-18-04 Intersolar 2004 and EuroSun 2004

Intersolar 2004 will be held 24-26 June 2004 in Freiburg, Germany. See <http://www.intersolar.de>, http://www.intersolar.de/index_e.html for more information. The European Solar Conference EuroSun2004 takes place 20-23 June 2004 in Freiburg, and is hosted and organized by the International Solar Energy Society.

5-18-04 Database for Residential Solar PV Sales (Tony Jones)

Engency Inc. has built and compiled a retail customer database available for the solar industry. Says Tony Jones, company representative, "The time is right for a product like this because of all the new capacity entering the sales channel. Our tool is ideal for the manufacturer that would like to push strong sales volume through their distributor and retailer system." Engency press release 415-381-1783.

5-17-04 Spain, Solar Pergola

Spain's King Juan Carlos officially opened the World Forum of Culture in Barcelona, which includes the Solar Pergola with a rated peak power of 444 kW. The Solar Pergola consists of 2,668 Isofoton monocrystalline modules. Phonix SonnenStrom AG supported the design phase, advised on the technical evaluation process, and provided technical know-how on development of the monitoring concept. A total of 1.3 MW of PV modules will be installed on the site. Story and photos at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR153.htm>
Phonix SonnenStrom: <http://www.SonnenStromAG.de/>
Isofoton: <http://www.isofoton.es/>

5-17-04 Germany, 1-MW PV Project

BP Solar 160-Watt (BP Solar 3160 QA) multi-crystalline PV modules at the Pfeifer facility in Memmingen have been connected to the grid. The installation totals 936 kW peak, with 5,852 modules. Story and photo at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR152.htm>
BP Solar: <http://www.bpsolar.com/>

5-17-04 Uruguay Energy Efficiency Project

This project is funded by a \$6.8 million grant from the Global Environment Facility. As part of the project, 2,000 solar electricity systems will be provided to families whose homes lack electricity. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsSAGO2.htm>

5-17-04 More on BP and Romag's PowerGlaz

Additional information about PowerGlaz, the solar electric glass developed by BP Solar and Romag, can be found at the BP Press site: <http://www.bpsolar.com/DisplayNews.cfm?id=83>

5-17-04 U.S., House Science Committee Hearing

A House Science hearing is scheduled for May 19 on "The Impact of Federal Energy Efficiency and Renewable Energy R&D Programs." According to Environment & Energy Daily (subscription), Charles Fox, New York's deputy secretary for energy and environment, is expected to discuss Governor George Pataki's plans for a statewide 25% RPS to be in place within the next 10 years.

E&E Publishing, LLC: E-mail: pubs@eenews.net * Phone: 202-628-6500

5-17-04 China's Renewable Energy

China has established renewable energy as a basic national policy, and a new law is being drafted to provide legal support to develop it. Story through Solarbuzz at: http://www.chinadaily.com.cn/english/doc/2004-05/17/content_331229.htm

5-17-04 Carmanah's Sales

Carmanah Technologies Corporation has sold an additional \$110,000 worth of its "Dual Flash IQ" LED crosswalk lighting systems through its U.K. distribution partner, Solagen Ltd. Using Carmanah's solar/LED technologies, the DUAL Flash IQ products were introduced in the U.K. and European markets in 2001. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR376.htm>

Carmanah: <http://www.roadlights.com/>

5-17-04 Sacramento Municipal Utility District Solicitations (Green Power Network)

See the Request for Information and Qualifications for Renewable Power Purchase at: <http://www.bids.smud.org/sys/user/Sys056.asp> (click "All Solicitations", go to Page 6, look under "Future Solicitations")

Green Power Network: <http://www.eere.energy.gov/greenpower/home.shtml>

5-17-04 More on the Navajo Reservation Solar Solution

Additional coverage of the 63 small, solar-electric power installations and small wind turbines completed on the Navajo Reservation in Arizona can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6735>. The 880-Watt residential SunWize Power Stations use Shell Solar modules and Southwest Windpower wind turbines, and comply with the National Electrical Code.

5-14-04 In fond memory of Jack Stone - long-time spirit of the daily NCPV Hotline - who left us last May.

5-14-04 U.S., Senate's Renewable Energy Tax Credits (Jesse Broehl)

This week, the Senate passed S. 1637, a corporate tax bill to which the energy tax provisions were attached. Coverage of the renewable energy provisions can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6729>. Some analysts are estimating that the cost of the energy tax package is more like \$18 billion rather than \$13 to \$14 billion, which will certainly play into the continuing debate as the House considers its path forward (see Alliance "News You Can Use" May 14, <http://ase.org/>)

5-14-04 Ground Mount Solar-Electric Generator

SolarOne(tm) (SOLARONE™ is a trademark of Solar One Solutions) announced availability of its new Harvester(tm) (HARVESTER™ is a trademark of Solar One Solutions) Ground-Mount solar -electric generator system. Press at: <http://www.solarone.net/News/docs/pr040513.html>
<http://www.solarone.net/News/>
http://www.solarone.net/Products/harvester_ground.html

5-14-04 Worldwatch Study

Worldwatch is launching a new study, Mainstreaming Renewable Energy in the 21st Century. See announcement of May 19 event at:

<http://releases.usnewswire.com/GetRelease.asp?id=131-05132004>

More press at:

http://pei.pennwellnet.com/articles/article_display.cfm?Section=ONART&Category=INDUS&PUBLICATION_ID=6&ARTICLE_ID=204633

5-14-04 GE in Germany

General Electric has big plans in Germany, especially in financial services, renewable energy, water purification, and airport security systems. Next month, GE will open its European research center in Garching near Munich. The 150 researchers in medical technology, renewable energy and plastics will do research for the entire company. Story at:

<http://www.faz.com/IN/INtemplates/eFAZ/docmain.asp?rub=%7BB1311FCE-FBFB-11D2-B228-00105A9CAF88%7D&doc=%7B71AB1879-4700-4ADF-9E10-6F77B8D1646A%7D>

5-14-04 International Utility Efficiency Partnerships RFP

The recently released RFP at <http://www.iuep.org/> is for developing and implementing international energy efficiency projects that will result in the reduction, mitigation or sequestration of greenhouse gases. [Highlighted in GVEP Newsletter, GVEP: <http://www.gvep.org/>]

5-14-04 Tour de Sol

The Northeast Sustainable Energy Association's 16th annual Tour de Sol: The Great American Green Transportation Festival is coming up. Press at:

http://www.democratandchronicle.com/news/05134S482GS_news.shtml
<http://www.nesea.org/transportation/tour/>

5-14-04 India, Mithradham's 5 Years of Service (George Peter)

Mithradham, a solar educational institution in India, completed 5 years of service in promoting environmentally friendly practices and renewable energy, thanks to PV. No power failures were experienced over 5 monsoon seasons. <http://www.mithradham.org/>

5-13-04 U.K., Romag's Solar Glass / Marley Roofing

Romag is using its laminating skills to incorporate PV cells provided by BP's solar energy division into glass panels. London architects will gather at the Royal Opera House for the launch of the product. At the same event, Marley Roofing will launch its solar-powered roof tiles for the domestic market. The tiles will be made of Romag's laminated glass and also incorporate BP solar cells. Story through Solarbuzz <http://www.solarbuzz.com/index.asp>

at:

http://search.ft.com/search/article.html?id=040512000220&query=romag&vsc_appld=totalSearch&state=Form

More on Romag's PowerGlaz

Production is due to start at the company's expanded manufacturing facility at Leadgate industrial estate later this month, with the production line capable of turning out more than 7,000 panels a year. The panels are custom-built to architects' specifications and can measure up to 3.3m by 2.2m and produce almost 1-kW each. Story at:

http://icnewcastle.icnetwork.co.uk/0500business/0100local/tm_objectid=14236372%26method=full%26siteid=50081%26headline=glassmaker%2dpowers%2dup%2dfor%2d%2dpound%2d7m%2dsales-name_page.html

5-13-04 Toyota Motor Sales Solar Electric System

The solar electric system, designed and installed by PowerLight Corporation, at the headquarters of Toyota Motor Sales USA, Inc. in Torrance, California, is greatly exceeding energy performance expectations. In the first year of operation, the system has operated with 100% availability and has produced over 100% of expected energy. Story at:

http://biz.yahoo.com/bw/040512/125843_1.html

Coverage and photo at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR375.htm>

Toyota: <http://www.toyota.com/index3.html>

PowerLight: <http://www.powerlight.com/>

5-13-04 Republic, Washington Solar Plant and Power Systems

According to this article, RWE Schott Solar Inc. is thinking about building a small manufacturing plant for solar panels in this area. The proposed assembly plant is part of a plan to create a statewide market for solar panels to boost Washington's position as a leader in the solar industry. Story at:

http://www.hoovers.com/free/news/detail.xhtml?ArticleID=NR200405121180.3_af0f0064912e7bce

Also, a Republic-based utility district is offering solar power systems to customers in isolated areas where it costs too much to extend conventional electric lines. For a monthly payment, the PUD will deliver a complete solar setup. Story at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=51074139&ID=cnniw&scategory=Energ%3AAlternative&

5-13-04 More on New York's "Solaire"

PV panels run the entire height of the 27-story structure and also cover the glass canopy over the entrance and sections of the roof. Story and photos at:

<http://www.azcentral.com/home/design/articles/0513highrise13-CR.html>

5-13-04 19th European Photovoltaic Solar Energy Conference and Exhibition

For the latest on the conference, 7-11 June 2004, in Paris, see: <http://www.photovoltaic-conference.com/exhibition.htm>

5-13-04 More on Science.gov 2.0

Science.gov -- the gateway to reliable information about science and technology across federal government agencies -- is made possible through a collaboration of 12 major science agencies. Version 2.0 will search 47 million pages of government R&D results and present the results in relevancy-ranked order. Information at:

http://www.energy.gov/engine/content.do?PUBLIC_ID=15863&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

<http://www.science.gov/>

5-13-04 Xantrex Financial Results

First quarter financial results for Xantrex Technology Inc. are covered in the article at:

http://biz.yahoo.com/prnews/040512/to056_1.html

5-13-04 More on Miasolé

Additional coverage of Miasolé's solar production, with photo, can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6717>

5-13-04 Solar "Street Furniture"

Solarcentury has received a £75K grant to develop a range of solar powered street furniture products under the Knowledge Transfer Programme. The joint project between solarcentury and The University of Reading's Energy Group and Electronic Engineering Department will support evolution of the solar light solution already in the field. Information at solarcentury:

<http://www.solarcentury.co.uk/news/newsitem.jsp?newsid=382>

5-13-04 India, Solar Lighting

Plans are in place to provide solar lamps to 7,952 households in 98 villages under the Union Ministry of Non-Conventional Energy Sources' program to electrify villages. Story through Solarbuzz <http://www.solarbuzz.com/index.asp>

at: <http://www.e-pao.net/GP.asp?src=6.12.120504.may04>

5-13-04 Selco Solar Light, India, announced its 150th solar lighting system installation for India's financial institutions in rural Karnataka. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6718>

Selco: <http://web.selco-intl.com:88/>

5-13-04 Dye-sensitized Solar Cells

For those with a subscription to Nikkei Interactive: 5-12-04 "Bendable Dye-Sensitized Zinc Oxide Solar Cell Has 5% Efficiency", Nikkei Interactive 19:37

5-12-04 Miasolé Funding

Miasolé announced the closing of \$5.4 million in venture funding. Along with the funding, Miasolé announced new members of the Board of Directors. Miasolé, formerly Raycom Technologies, has developed a new low-cost manufacturing process for production of solar cells on flexible stainless steel foil. CIGS material and other thin-film layers are deposited in a continuous process in the vacuum system. Story at: <http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=104&STORY=/www/story/05-11-2004/0002172121&EDATE=>

Miasolé: <http://www.miasole.com/>

<http://www.miasole.com/solution.asp>

5-12-04 SunWise Technologies Power Stations [Tina Nickerson, Laurie Dubois]

SunWise Technologies announced completion of a residential renewable energy project with the Navajo Tribal Utility Authority in Arizona. The NTUA implemented a renewable energy program to provide residents in remote locations with electric service at a reasonable cost. Sixty-three PV Power Stations were designed and supplied by SunWise. The 880-Watt SunWise(R) (SUNWIZE® is a registered trademark of SunWise Technologies) Power Stations use Shell Solar modules and Southwest Windpower wind turbines.

Coverage at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR374.htm>

SunWise: <http://www.sunwize.com/>

Shell Solar:

http://www.shell.com/home/Framework?siteId=shellsolar&FC2=/shellsolar/html/iwgen/leftnavs/zz_lhn1_0_0.html&FC3=/shellsolar/html/iwgen/welcome.html

5-12-04 California, San Francisco's "Energy Independence"

The San Francisco Board of Supervisors unanimously approved legislation to use the state's "Community Choice" law to switch San Francisco residents and businesses to a new power supplier for electricity service and to finance a network of renewable energy and energy conservation projects. The Energy Independence ordinance directs City departments to prepare an Implementation Plan and Request for Proposals for the Board to solicit new Electric Service Providers interested in building 360 MW of new PV installations, distributed generation, wind turbines, hydrogen energy efficiency, and conservation technologies. Story at:

<http://www.commondreams.org/news2004/0511-12.htm>

5-12-04 More on Fuji Group

The Fuji Electric Holdings Co. group will begin shipping samples of solar batteries that make use of plastic film substrates. Group firm Fuji Electric Advanced Technology Co. will supply the amorphous silicon solar cells mainly to makers of construction materials, which may stretch them over steel plate for use as roofing material, for example. [Last item in news brief at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=BusinessMarkets&template=3,3&NewsID=1526743&ResultCategoryType=3,7&NewsPageID=3>]

5-12-04 ARISE Technologies Funding

ARISE Technologies Corporation announced it has secured just over \$250,000 of funding through several transactions, which will require final TSX Venture Exchange approval.

Information in ARISE Press May 11 at: <http://www.arisetech.com/>

5-12-04 Photon International May 2004

Contents of the latest issue of Photon International, and web access to a number of the articles - such as "First Modules from Photovoltech" and "Reverse Current Overload Tests for Modules in Europe" - can be found at: http://www.photon-magazine.com/photon/news_issue_2004-05.htm

5-12-04 U.S., U.K. Renewables Partnerships

The U.S. has signed up to the U.K.'s Renewable Energy and Energy Efficiency Partnership (REEEP), and in return the U.K. has joined the U.S. Clean Energy Initiative and announced joint partnerships with Germany. REEEP is a coalition of governments, businesses, and organizations committed to accelerating the development of renewable energy and energy efficiency systems. Story at: http://www.greenbiz.com/news/news_third.cfm?NewsID=26757

Renew 2004, 1-4 June: <http://www.renewables2004.de/>

5-12-04 U.S. Energy Tax Provisions

The Senate approved S. 1637 (JOBS bill) last night, to which the energy tax package was attached. Attempts to delete the energy tax provisions from the bill failed. Now the bill goes to the House, which has not completed its version of the bill or decided whether or not to attach an energy tax package to it.

5-11-04 Canrom's Thin-film Activity

Per the Canrom Web site, Canrom is devoting its resources to the development of a thin-film CdTe-based solar electric module. This is a \$1,500,000 program supported in part by the New York State Energy Research and Development Authority. NYSERDA's web site lists a \$133,040 contract dated 2-4-04 with the objective to install and make operational manufacturing equipment at Canrom's new Niagara Falls manufacturing facility.

Canrom: <http://www.canrom.com/aboutus/index.htm>

5-11-04 Iowa Thin Film Technologies in the News

Media coverage of Iowa Thin Film Technologies business activities can be found at:

<http://www.iowathinfilm.com/news/webpages/pedersen.htm>

<http://www.iowathinfilm.com/news/webpages/Ames%20Tribune.htm>

5-11-04 Fuji Electric Group Solar Cells

This note came across the wires yesterday: "Fuji Elec Group to Ship Samples of Film Solar Cells", but further information was by subscription only. In 2003, the Fuji Electric Journal included an article on "Features and Prospects of Solar Cells Formed on a Film Substrate" by Tomoyoshi Kamoshita:

Abstract:

This paper describes the features, current status of development and prospects for solar cells formed on a film substrate. Use of a film substrate enables a roll-to-roll process to be used during manufacture, and this is a great advantage for mass production. Stabilized efficiency of over 8% was achieved during deposition of a photoelectric transfer layer at a rate of 30 nm/min. This result shows promise for mass production and practical use. Leveraging their features of light weight, flexibility and good appearance, solar cells have been integrated with roofing materials, and a product lineup of these roofing modules is introduced.

http://www.fujielectric.co.jp/eng/company/tech/contents2003_07.html

Fuji Electric R&D: <http://www.fujielectric.co.jp/eng/company/tech/contents1.html>

5-11-04 David Garman's Hearing Testimony

David Garman's prepared testimony at the Senate Energy & Natural Resources Committee hearing 27 April on sustainable, low emission, electricity generation - including a section on solar - is now available at:

http://www.eere.energy.gov/office_eere/congressional_test_042704.html

5-11-04 California, Solar-powered Boat Competition

Twenty-two southland high school teams are competing in a solar-powered boat competition 21-23 May 2004 at Lake Skinner reservoir and recreation area. The Solar Cup is a competition for public and private high school students throughout Southern California sponsored by Metropolitan Water District and its member cities and water agencies. Information at:

http://biz.yahoo.com/bw/040510/106017_1.html

5-11-04 Desert Vista Solar Boat

Desert Vista High School's solar-powered boat took 1st place for best mechanically designed craft in the Salt River Project's Solar Spectacular held at Tempe Town Lake. Story at: <http://www.ahwatukee.com/afn/education/articles/040512e.html>

5-11-04 Solar Car Project with Xantrex Power Supply

A Xantrex XFR Series programmable power supply is part of fine-tuning the McMaster University Solar Car Project team's electronics on the Fireball II solar car. The first race with the car is the Formula Sun Grand Prix that takes place 19-21 May 2004 in Topeka, Kansas. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6702>

5-11-04 Solar Today May/June 2004

See http://www.solartoday.org/current_issue.htm for contents of the latest issue of Solar Today, including an article about rooftop solar panels that power Durango, Colorado's community arts center.

5-11-04 China, UK Renewables Partnership

China and the UK issued a joint statement for cooperation on areas that include renewable energy developments. Story at SolarAccess, including a copy of the joint statement: <http://www.solaraccess.com/news/story?storyid=6712>

5-11-04 U.S. Energy Tax Package

Coverage of the latest on the energy tax package provisions, which are attached to S. 1637 - the corporate tax bill, can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6707>
A cloture vote on 1637 might take place today.

5-11-04 Science.gov 2.0 Information Retrieval

Energy Secretary Spencer Abraham will launch "Science.gov 2.0", the next major step in government science information retrieval, at a ceremony today. Media Advisory at: http://www.energy.gov/engine/content.do?PUBLIC_ID=15840&BT_CODE=PR_MEDIAADVISORIES&TT_CODE=PRESSRELEASE

5-10-04 Solar Integrated Technologies Developments

Solar Integrated Technologies has finalized its Aim flotation, and has raised a little over GBP 11m that will be used to expand into Europe and to build a second plant in eastern Germany. Story through Solarbuzz <http://www.solarbuzz.com/News/Corporate.asp>

at: http://www.hoovers.com/free/news/detail.xhtml?ArticleID=NR20040508670.4_3a70000727d6c54e

5-10-04 Hawaii PV

A PV project originally conceived to be the largest in the islands at up to 3 MW has been downsized and re-sited. The Ewa Beach site was judged too remote from infrastructure, and instead the Navy will put PV on the Hangar Building 54 at Ford Island. The 200 kW project could be expanded in the future. Several different types of solar cells will be used to gather test data, said Karl Stahlkopf, HECO vice president for renewable energy. Said Gary Jensen, director of the Mid-Pacific Branch of the Office of Naval Research, "We're interested in the possibility of using photovoltaic energy (solar power) to create hydrogen" and then storing hydrogen in fuel cells. Story at: <http://starbulletin.com/2004/05/08/news/whatever.html>

5-10-04 Greece, Renewable Energy

In his opening speech to the annual conference of the European Photovoltaic Industry Association, Greek Deputy Development Minister George Salagoudis said the government planned to provide incentives for the wider distribution of new technological applications like PV systems. Story at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=50860320&ID=cnniw&scategory=Energy%3AAlternative&

5-10-04 Global "Dimming"?

Called global or solar "dimming", some scientists are saying that thicker clouds and growing air pollution are causing much of the Earth's surface to receive 10-20% less sunlight than 50 years ago. Sample story at: http://www.freep.com/news/nw/global10_20040510.htm

The topic will be discussed at an international geophysical conference in Montreal later this month. See session titles at: <http://www.agu.org/cgi-bin/sessionssm04?meeting=sm04&sec=A>
[Daryl Myers]

<http://www.agu.org/meetings/sm04/>

May 7: Additional Searchable Archives for NCPV Hotline Entries

To assist in searching for past NCPV Hotline entries, we have created several PDF summary files for 2004 at the NCPV Hotline Archive Web Site,

<http://www.nrel.gov/ncpv/hotline.html#latest>.

By clicking on 2004 under "Archived Issues", a PDF file will appear that can be searched by keyword in Acrobat. Links can be accessed by cut/paste or by going to the Monthly File in which the article appeared (the monthly files have live links, some of which do expire over time).

Also, the "2004 Monthly Index" provides monthly PDF files of general subject indices that can be scanned for topics and the dates the articles appeared, which can then be found in the archives of the articles.

5-7-04 Solar Cell Concept (April 2004)

Science Daily reports that University of California scientists working at Los Alamos National Laboratory have experimentally demonstrated a phenomenon in which semiconductor nanocrystals respond to photons by producing multiple electrons. A paper has been published in Physical Review. Story at: <http://www.sciencedaily.com/releases/2004/05/040505065828.htm>

LANL: <http://quantumdot.lanl.gov/>

LANL Press: <http://www.lanl.gov/worldview/news/releases/archive/04-040.shtml>

5-7-04 DayStar Technologies Presentation

DayStar Technologies, Inc. announced it is scheduled to present at the National Investment Banking Association conference in Chicago in mid May. The event brings together institutional investors, brokers and investment bankers with public and pre-IPO companies. Story at:

http://biz.yahoo.com/prnews/040507/sff003_1.html

5-7-04 U.S. Comprehensive Energy Bill Tax Provisions

Environment & Energy Daily (subscription, email: pubs@eenews.net) reports that a cloture petition has been filed on the corporate tax bill to which the \$13-billion energy tax package is attached, which if it passes would force a final vote on the bill. Senator McCain is still expected to offer amendments to strike the energy tax language from the bill. Senator Allard's amendment earlier in the week added language authorizing tax-exempt green bonds. The debate in the Senate continues today, and probably at least into Monday.

5-7-04 Ireland Renewables

Dermot Ahern, Minister for Communications, Marine and Natural Resources has established a

group involving key players in renewable energy to report back on developing and expanding energy from green sources. The first meeting of the Renewable Energy Group has been held. Story at: <http://212.2.162.45/news/story.asp?j=103324512&p=yx33z5zy8&n=103325272>

5-7-04 Additional Searchable Archives for NCPV Hotline Entries

To assist in searching for past NCPV Hotline entries, we have created several PDF summary files for 2004 at the NCPV Hotline Archive Web Site, <http://www.nrel.gov/ncpv/hotline.html#latest>. By clicking on 2004 under "Archived Issues", a PDF file will appear that can be searched by keyword in Acrobat. Links can be accessed by cut/paste or by going to the Monthly File in which the article appeared (the monthly files have live links, some of which do expire over time). Also, the "2004 Monthly Index" provides monthly PDF files of general subject indices that can be scanned for topics and the dates the articles appeared, which can then be found in the archives of the articles.

5-6-04 Universal Communication Systems European Project

Universal Communication Systems, Inc. subsidiary Millennium Electric T.O.U. Ltd announced that it has been approved for an award of euro 908,493 in a Consortium Agreement by the Commission for the European Community. The project includes several other European participants and will be coordinated by Millennium. The objective of the project is to further develop Millennium's brand of PV collectors and move in the direction of developing PV panels that can be integrated into any type of building. Story at:

http://biz.yahoo.com/prnews/040505/flw018_1.html

Universal Communication Systems: <http://www.ucsy.com/>

Millennium: <http://www.millennium-electric-inc.com/>

5-6-04 California, Sebastopol Solar Energy Projects

Solar Works is installing 126 solar panels at the Ives Pool house as part of the city's largest solar energy project. This is the 3rd major solar energy system installed in the city, moving toward to City Council goal to produce 1,000 kW of solar power on residential, commercial, and municipal buildings by the end of 2005. Story through Solarbuzz at:

http://www.pressdemocrat.com/local/news/06solar_b1.html

5-6-04 More on RWE Schott's Solar Installation on Historical Building

Additional coverage of RWE Schott Solar's flat-roof solar electric system on the West End Hotel in Culver City, California, with photo, can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6673>

RWE Schott Solar: <http://www.rweschottsolar.us/>

5-6-04 California, PowerLight PV System (Susan DeVico)

Mayor Len Augustine and the City of Vacaville dedicated the City's new 39-kW solar electric system furnished by PowerLight. Pacific Gas & Electric provided a \$152,757 rebate for the City's project through the self-generation incentive program. PowerLight press:

<http://www.powerlight.com/company/press-releases/index.shtml>

5-6-04 More on the MIT Study on Emissions Reductions with Solar

Additional information on the MIT study can be found at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAGO170.htm>

MIT press: <http://fee.mit.edu/news/item?news%5fitem%5fid=100075>

The report is in final editing and should be posted in the near future [Stephen R. Connors, MIT].

5-6-04 Iran, Solar Power Plant

Deputy energy minister for energy affairs, Hamid Chitchian, said good progress has been made

with respect to PV and solar thermal generators. He noted that the solar power plant of Shiraz is the first of its kind among developing countries. Press at:

<http://www.tehrantimes.com/Description.asp?Da=5/6/2004&Cat=9&Num=30>

5-6-04 Solar Battery Charger (April 2004)

Global Solar Energy has developed a lightweight, rucksack-portable solar recharger that incorporates the company's CIGS technology. According to the press, Global Solar Energy has recently built a large-area solar module with a 10.7% conversion efficiency. Story at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=50763721&ID=cnniw&scategory=Energy%3AAlternative&

Global Solar Media: <http://www.globalsolar.com/mediacenter/index.htm>

5-5-04 Nanotubes for Better Solar Cells

Researchers at the Universities of Bologna, Trieste and Notre Dame have found a way to alter carbon nanotubes so they can separate electrical charge efficiently, which could lead to better solar cells. Story at:

http://www.three-fives.com/WZ/III-Vs/competitive_news/news/000032/show/

5-5-04 Amonix Unit Starts Operation at the University of Nevada Las Vegas (Mary Jane Hale)

NREL, the University of Nevada Las Vegas (UNLV), Amonix and Arizona Public Service (APS) have worked together to configure and install an Amonix 25 kW (five MegaModuleTM) (MegaModuleTM is a trademark of the Ammonix Incorporated) Integrated High Concentration PV (IHCPV) unit at the UNLV Center for Energy Research Site. This project will compare the performance, reliability and operational requirements of an advanced generation IHCPV system with other solar concentrating technologies at the UNLV site, including a dish Stirling engine system and a PV dish-concentrating system. It will also allow the demonstration of a new technology ideally suited for the Southwest and a comparative technology base of reference for high-concentrator photovoltaic performance and life-cycle cost for future large-scale projects in Nevada and the Southwest. The Amonix IHCPV system was connected to the Nevada Power grid on March 19, 2004 has generated electricity every day since.

This project is an accomplishment resulting from a competitive NREL solicitation funded under the Nevada Southwest Energy Partnership. Additional information will appear through this link shortly: <http://www.egr.unlv.edu/solar/about/news.html>

5-5-04 Uni-Solar Ovonic Solar Cells for Air Force Satellite

United Solar Ovonic Corp. announced that it has been selected by the Air Force Research Laboratory in Kirtland AFB, New Mexico, to provide UNI-SOLAR(R) (UNI-SOLAR® is a registered trademark of the United Solar Ovonic Corp.) lightweight solar cells deposited on thin stainless steel to supply power to an experimental satellite. Uni-Solar Ovonic also has an option to provide additional UNI-SOLAR(R) ultra-lightweight cells deposited on polymer. Story at:

http://biz.yahoo.com/prnews/040505/dew021a_1.html

Uni-Solar: <http://www.uni-solar.com/>

5-5-04 USDA Renewable Energy Initiatives

Agriculture Secretary Ann M. Veneman announced the availability of about \$23 million in grants that will support development of renewable energy systems and promote energy efficiency improvements. The Renewable Energy Systems and Energy Efficiency Improvements program was created as part of the 2002 Farm Bill. For more information, see:

<http://www.usda.gov/Newsroom/0182.04.html>

<http://www.rurdev.usda.gov/>

5-5-04 California, Historical Building's PV

RWE SCHOTT Solar Inc. has completed a flat-roof PV system on the West End Hotel in Culver City, meeting challenges posed by fire codes and regulations for buildings with historical designations. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR370.htm>

5-5-04 Maryland, Solar Energy Incentive Program

Maryland officials enacted a solar energy grant program that will provide financial incentives to homeowners and businesses that install solar energy devices. Governor Robert L. Ehrlich, Jr. signed the legislation into law, and it will take effect January 1, 2005. More on this program at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO169.htm>

5-5-04 New York Solar Energy Award

As a result of a settlement on a lawsuit filed under the Clean Air Act, New York State will receive \$2.1 million to install solar equipment on municipal buildings. The New York Energy Research & Development Authority will get \$300,000 to administer the program. The remaining \$1.8 million will be for new solar equipment throughout the state. Story at:

http://www.saratogian.com/site/news.cfm?BRD=1169&dept_id=17718&newsid=11442214&PAGE=461&rfi=9

5-5-04 U.S., Science Funding

Fifty-five senators have urged Senate appropriators to increase the Department of Energy's Office of Science FY 05 budget by 10% over the request level. Forty Democrats and 15 Republications signed the letter. For more information, including the text of the letter see:

http://energy.senate.gov/news/dem_release.cfm?id=220781

5-5-04 Australia, Science Funding

Plans for a solar energy research center based in Canberra have been rejected in the latest round of science funding. Stories at: <http://www.abc.net.au/news/newsitems/s1100761.htm>

<http://www.abc.net.au/news/newsitems/s1100726.htm>

http://canberra.yourguide.com.au/detail.asp?class=news&subclass=local&category=general%20news&story_id=303960&y=2004&m=5

5-5-04 Renewable Technology Forum/Demo

Today, the U.S. DOE and National Renewable Energy Laboratory are hosting a renewable technology forum/demo in Washington, DC. Topics being addressed include: "Strengthening the Rural Economy through Renewable Energy," "The Changing Built Environment," "New Choices for Electricity Customers," and "Reducing our Dependence on Foreign Oil." Press at:

http://www.energy.gov/engine/content.do?PUBLIC_ID=15788&BT_CODE=PR_MEDIAADVISORIES&TT_CODE=PRESSRELEASE

5-5-04 PV 2003 World Market Data (Paul Maycock)

The 2003 World Market Data charts from PV News, plus others, are available in electronic form (\$50). Charts include: World PV Production by Country or Region; Top Ten PV Companies; US Production by Company; Japanese Production by Company; European Production by Company; Rest of World Production by Company; World Production by Technology; World Shipments by Application; and US Shipments by Application. See PV News May 2004 (subscription), Paul Maycock, pves@pvenergy.com.

5-5-04 Turkey, World Bank Loan for Renewable Energy

Turkey has an agreement for a loan of \$203.03 million from the World Bank to finance a "Renewable Energy Project". The loan will be provided over a period of 3 years under the Country Assistance Strategy. Story at:

<http://www.turkishpress.com/turkishpress/news.asp?ID=19812>

5-4-04 Spire Solar Module Manufacturing Inspection System

Spire Corporation announced that Spire Solar has introduced an automated solar cell string inspection system for module manufacturers. The automated inspection system tests each string for cell orientation, alignment, ribbon placement, chips, micro-cracks and solder joint quality. It was developed under Spire's Photovoltaic Manufacturing Research and Development program supported by the U.S. DOE. Story at: http://biz.yahoo.com/bw/040503/35768_1.html

Spire Press: <http://phx.corporate-ir.net/phoenix.zhtml?c=76421&p=IROL-SingleRelease&t=Regular&id=522194&>

5-4-04 Proton Energy Solar/PEM Fuel Cell

Proton Energy Systems, Inc. announced the award of a \$499,000 Phase II contract to continue development on its regenerative solar/Proton Exchange Membrane fuel cell demonstration system for the Naval Air Warfare Center Weapons Division at China Lake, California. The goal of the project is to demonstrate grid independent constant power output using inherently intermittent renewable energy for stable, remote operation. Story at:

http://biz.yahoo.com/prnews/040503/cgm082_1.html

Proton Energy: <http://www.protonenergy.com/>

5-4-04 Evergreen Solar Quarter Results

Evergreen Solar, Inc. announced results for the first quarter 2004. Said Richard M. Feldt, President and Chief Executive Officer, "I am pleased with our first quarter results. We had record product revenues and made good progress on our capacity expansion. The Marlboro factory achieved a 4.5 MW per year run rate by the end of March, up from 3 MW at the end of 2003. We are on target to quadruple our manufacturing capacity by year-end, significantly increase revenues and substantially improve product gross margins." Evergreen press:

http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=ESLR&script=410&layout=6&item_id=522596

5-4-04 NEDO Grant Program

An April 19 announcement by Japan's New Energy and Industrial Technology Development Organization (NEDO) invites research teams to submit proposals for the FY 2004 International Joint Research Grant Program, from April 19 to June 18. Information at:

<http://www.nedo.go.jp/english/informations/160419/160419.html>

5-4-04 American Solar Challenge

For a copy of the Spring 2004 newsletter, and other information on the American Solar Challenge, go to: <http://www.americansolarchallenge.org/aboutasc/newsletter/index.html>

5-4-04 Solar Decathlon House

For a story on the final destination of the University of Colorado's former winning Solar Decathlon house, see:

http://9news.com/acm_news.aspx?OSGNAME=KUSA&IKOBJECTID=4d06a8e1-0abe-421a-0162-5c5e8acc2b33&TEMPLATEID=0c76dce6-ac1f-02d8-0047-c589c01ca7bf

The official Web site of the Solar Decathlon, including information about 2005, is:

http://www.eere.energy.gov/solar_decathlon/doe.html

5-4-04 U.K., Engineering and Physical Sciences Research Council PV Projects

The EPSRC is the UK Government's leading funding agency for research and training in engineering and physical sciences. For a listing of PV projects, go to the main site at: <http://194.66.183.26/WEBSITE/Index.aspx>, click on "Research Support", then "Grants on the Web", then "Current Grant Portfolio", then "Programme", and then "Search" (in the blue header at: <http://194.66.183.26/WEBSITE/GOW/ListProgrammes.aspx>) by typing in the word photovoltaic, and click on "GO". Or go directly to this last link listed above, and do the search for photovoltaic.

5-4-04 U.S. Energy Tax Policy

The Senate is debating the corporate tax bill (JOBS - S. 1637), which includes a \$13-billion energy tax package. Amendments are on tap to strike the energy tax provisions from the bill.

5-3-04 Sharp Ultra-thin Solar Cells (Osamu Ikki, RTS Corporation)

RTS Corporation's April newsletter (subscription) reports that Sharp is planning mass production of ultra-thin solar cells with 200 um thickness, aiming for efficient utilization of raw material and cost reduction for the solar cells. This and much more news by subscription in RTS Corporation's "PV Activities in Japan", Tokyo, Japan, email ikki@rts.pv.com, Fax: +81-3-3553-8954.

5-3-04 Grid-connected PV

According to Solarbuzz Inc.'s new report, 37 MW of grid-connected PV were installed in the U.S. last year, up from a market of only 2 MW in 1998. Said Criag Stevens, CEO of Solarbuzz Inc., "The grid connect market now accounts for 56% of the total US solar PV market installations. US customers' appetite for PV systems is keeping pace with customers in Germany and Japan." For more on this report, see Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO208.htm> US Grid Connect PV Market Report: <http://www.solarbuzz.com/USGridConnect2004.htm>

5-3-04 Pennsylvania, Solar Plant

Solar Power Industries was established at the former Ebara Solar site, and John Easoz was named executive vice president for the local facility. Solar Power Industries' plant employs about 25, and the workforce is expected to grow. The company is producing 2 MW per year, and expects to triple production within 3 months, with production of 10 MW by the 3rd quarter of this year, and 25-30 MW by 2005. Story through Solarbuzz at: http://www.pittsburghlive.com/x/valleyindependent/news/s_191958.html

5-3-04 California, "Solar Homes" Bill

The Senate Housing Committee passed SB 1652, the "Solar Homes" bill which would require builders of new developments of 25 homes or more to install PV systems on a minimum percentage of the new homes beginning 2006. More on this bill at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6654>

5-3-04 Pennsylvania's Energy Harvest Grant Program

Environmental Protection Secretary Kathleen A. McGinty announced \$5 million will be available in the 2nd year of Pennsylvania's Energy Harvest grant program. Story at: http://biz.yahoo.com/prnews/040429/phth023_2.html

5-3-04 Coalition Supports Domestic Energy Supply and Infrastructure

Over 100 companies and national leaders called upon Senate leadership to take immediate action on the "JOBS" bill, emphasizing that the bill's provisions encouraging investment in domestic energy supply and infrastructure are critical to US economic recovery. Says the letter, "With every month that passes without passage of energy tax legislation, the energy industry

faces continuing uncertainty and disincentives to investing in areas such as renewable energy, energy efficiency and new technologies." Senate Majority Leader Bill Frist announced that the bill will be on the Senate floor first off in May. Story at:

http://story.news.yahoo.com/news?tmpl=story&cid=669&ncid=669&e=3&u=/usnw/20040430/pl_usnw/investment_in_energy_infrastructure_is_critically_needed_broad_ranging_coalition_tells_senate_leaders119_xml

5-3-04 California, SunPower Workshop

SunPower Corporation it will host a free public workshop on solar electricity for commercial and residential sites on Saturday, May 8 in San Jose. Speakers include Dr. Richard Swanson, Andy J. Black, and Kurt Newick. For information, see:

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040503005346&newsLang=en

5-3-04 Energy Policy

For an overview of Energy Policy in the 21st Century, American Scientist, see:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=50594222&ID=cnniw&scategory=Energy%3AAlternative&

APRIL

4-30-04 PowerLight Award

Cleantech Venture Network announced that PowerLight Corporation received its 2003 Cleantech Emerging Enterprise of the Year award. Press at:

http://www.powerlight.com/company/press-releases/2004/04.28.04_PowerLightWinsCleanTechAward.shtml

Coverage at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6646>

4-30-04 California, Rebate for Clean On-site PV Generation

Pacific Gas and Electric Company presented East Bay Municipal Utility with an \$877,680 rebate after the utility district recently installed 2 natural-gas-fired cogeneration systems and one solar electric system at 3 facilities. The 35-kW PV system qualified for a \$157,680 rebate and was installed by PowerLight Corporation and Marelich Mechanical using Shell Solar 75-Watt modules. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR369.htm>

4-30-04 Rooftop PV

Northern Power Systems announced it has been hired to engineer, build, and commission an advanced solar-based power system for Artists for Humanity at their new EpiCenter facility in South Boston. The rooftop PV system will use ASE-300 PV modules. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6638>

4-30-04 Universal Communication Systems Inc. Acquisition

Universal Communication Systems Inc. announced it has completed the purchase of the remaining 50% equity of Solar Style Limited from MCO Ltd. A new subsidiary, Solar Style Inc., has been formed. Story at: http://biz.yahoo.com/bw/040430/305362_1.html

Solar Style: <http://www.solarstyleinc.com/>

Universal Communications: <http://www.ucsy.com/>

4-30-04 More on Changing Leadership at SEIA

Additional coverage of the change in leadership at SEIA is at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6640>

4-30-04 Hydrogen, Notice Inviting Grant Applications

A Federal Register Notice was posted April 27 for the Office Of Science Financial Assistance Program, Notice DE-FG01-04ER04-20, Basic Research for the Hydrogen Fuel Initiative, which includes solar hydrogen production. <http://www.science.doe.gov/grants/Fr04-20.html>

4-30-04 U.S. Comprehensive Energy Legislation

Yesterday, the Senate blocked attempts to attach energy legislation to the Internet Tax Bill.

4-30-04 More on Red Wine and Solar Cells

Additional coverage about red wine making solar cells better - the University of Toledo experiments - is at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6641>

4-30-04 More on Stirling Energy Systems

Additional coverage of solar dish plans unveiled by Stirling Energy Systems at the North American Energy Summit can be found at:

<http://www.centreforenergy.com/displayNewsArticle.asp?From=BusinessMarkets&template=3,3&NewsID=1468220&ResultCategoryType=3,7&NewsPageID=3>

SES: <http://www.stirlingenergy.com/news.asp?Type=stirling>

4-30-04 Solar Trough Opportunity Notice

An opportunity notice for "A - USA Trough: Near-term Component Manufacturing" can be found at: <http://www2.eps.gov/spg/DOE/NREL/NR/RCX%2D44440/listing.html>

4-29-04 UK Thin-film Solar Cell Research

The University of Bath is among 6 universities and 7 companies in the UK that began a £4.5 million project this month to cut the cost of PV-generated electricity in half. The project will develop thin-film solar cells. It is funded by the Engineering and Physical Sciences Research Council and is called Photovoltaic Material for the 21st Century. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUTE12.htm>

4-29-04 Nevada, Washoe Tribe Solar Energy

The Washoe Tribe is the first applicant approved to receive financial benefits from the Nevada Solar Energy Systems Demonstration. The PUC approved the tribe's application for financial assistance for installing a 7.5 kW PV system at the Washoe Environmental Protection

Department. Story at: http://www.reviewjournal.com/lvrj_home/2004/Apr-29-Thu-2004/business/23767975.html

4-29-04 U.S. Comprehensive Energy Legislation

Senator Domenici is offering the slimmed-down version of the energy bill as an amendment to the Internet Tax bill that will be considered by this Senate this morning.

4-29-04 California, Schwarzenegger on Renewables

Governor Schwarzenegger asked state energy regulators to step up the pace in helping utilities enter long-term electricity contracts and buy more renewable energy. In a letter to the PUC President, Schwarzenegger said he'd like to see utilities getting 20% of their power from green sources by 2010 instead of 2017. More at: <http://www.modbee.com/local/story/8502171p-9346730c.html>

4-29-04 Sarnafil Inc. Award

Sarnafil Inc. received the National Roofing Contractors Association 2004 Exhibitor Excellence Award for Most Innovative New Product, Service, or Program. The award recognizes the role Sarnafil's EnergySmartRoof(R) (EnergySmartRoof® is a registered trademark of the Sarnafil Inc.) plays in the SR2001 Solar Electric Roofing System manufactured by Solar Integrated Technologies. Press at: http://www.solarintegrated.com/PR_Sarna_NRCA.html

4-29-04 Wales, More on the "Solar Wall"

More on the building-integrated sloping wall design, integrated into the roof structure, with Shell ST36 CIS thin-film panels, including photos, can be found at:

http://www.jxj.com/magsandj/rew/2004_02/optic.html

[Highlighted at PV-UK]

4-29-04 Inverters

An article on choosing the right inverter for grid-connected PV systems can be found at Renewable Energy World: http://www.jxj.com/magsandj/rew/2004_02/inverter.html

[Highlighted at PV-UK]

4-29-04 Germany, Solar Cell Research

The solar energy research association has summarized the latest results from solar cell research in a conference transcript in German. See: <http://www.FV-sonnenenergie.de/publikationen/index.html> [German]

4-28-04 Germany, Phonix SonnenStrom Solar Module

Phonix SonnenStrom is launching a new 200 and 205 Watt module, the ASE 200 GT-FT/TE. The monocrystalline cell module is the highest power made by solar cell manufacturer RWE Schott Solar. RWE Schott Solar is supplying the module to Phonix SonnenStrom on an exclusive basis. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPT19.htm>
Phonix SonnenStrom AG: <http://www.sonnenstromag.de/>

4-28-04 XsunX Solar Electric Vision Glass

XsunX, Inc. announced it has developed working prototypes of its solar electric vision glass. The working models maintain a high degree of transparency allowing light to enter into buildings while allowing occupants to easily see out. Story at:
http://www.primezone.com/newsroom/news_releases.mhtml?d=56527
XsunX: <http://www.XsunX.com/>

4-28-04 Konarka Patent Assets (Joe Romano)

Konarka Technologies, Inc., announced that it has acquired patent assets from Chalmers University of Technology related to Konarka's development of PV products. Konarka Press at: http://www.konarkatech.com/news_press_chalmers_unv.php

4-28-04 Solar Electric Power Anniversary

In April 1954, scientists from Bell Laboratories unveiled their silicon solar cell. The Solar Energy Industries Association is celebrating this golden anniversary by looking ahead to future roles of solar power over the next 50 years. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO167.htm>
Coverage at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6618>
SEIA: <http://www.seia.org/>

4-28-04 Additional Coverage of Scott Sklar's Appointment

Additional coverage of Scott Sklar's appointment as acting interim executive director of SEIA is at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6625>

4-28-04 Solar Energy's Future

Says Bud Annan of Scottsdale, former director of solar energy at the U.S. DOE, "The California energy crisis has jump-started the solar energy business in Arizona. The market is so large, they've created 500 new businesses installing solar in the last two years (in California)." Story at through SolarAccess at: <http://www.aztrib.com/index.php?sty=19912>

4-28-04 Canada, Ontario RFQ

Ontario has issued an advance RFQ for 300 MW from green power. See Bill Eggertson's site at: <http://www.renewables.ca/main/main.php> and http://biz.yahoo.com/prnews/040428/to010_1.html
RFP site: <http://www.ontarioelectricityrfp.ca/>

4-28-04 EU's World Leadership In Renewable Energy

According to this article, 3 leading environmental groups want the European Commission to put forward a new target for boosting the share of renewable energy used in Europe to 25% by 2020. Story at: http://www.panda.org/news_facts/newsroom/press_releases/news.cfm?uNewsID=12785

4-28-04 Greece, Let's Bet On the Sun

On the occasion of the European Photovoltaic Industry Association Annual General Meeting, a European conference "Let's bet on the sun" has been organized. The conference will focus on

the potential and perspectives of the Greek market for PV energy, and is organized by EPIA in cooperation with others including the Greek Centre for Renewable Energy Sources, Association of the Hellenic PV companies, European Renewable Energy Council, and German Energy Agency. May 7, 2004 in Athens. Contact Marie Latour, epia@epia.org.
<http://www.epia.org/04events/events.asp>

4-28-04 More on Clean Technology Ventures (John Turner)

More coverage of clean technology ventures, including coverage of Nanosolar, can be found at the Denver Post at: <http://www.denverpost.com/Stories/0,1413,36~33~2108109,00.html>

4-28-04 American Solar Energy Society - Sunbeam eNewsletter The ASES eNewsletter Sunbeam is available at:

The current issue covers topics such as the Congressional Energy Caucus, Renewable Energy and the Job Market, and Solar/Renewable Success Stories.

4-28-04 Australian Renewable Energy Stamps (Craig Cox)

A special issue of 4 stamps illustrates renewable energy production in Australia. For more information, see:

http://www.auspost.com.au/philatelic/stamps/stampshop_2.asp?category_id=375&product_type=8

4-28-04 Senate Energy & Natural Resources Committee Hearing

Available testimony from the oversight hearing on sustainable, low-emission, electricity generation April 27 can be found at: <http://energy.senate.gov/hearings/witnesslist.cfm?id=1129>
Witnesses included David Garman, Ernie Moniz, Richard Smalley, and Francis Burke.

4-28-04 More on Solar Dishes

Additional coverage of Stirling Energy Systems Inc. and Schuff Steel Co. plans for solar generators can be found at: <http://www.azcentral.com/business/articles/0428solar28.html>

4-27-04 Glenn Hamer / Scott Sklar Appointments

First Solar announced that Glenn Hamer will join the company in a senior executive role effective May 1, 2004. Hamer has been the Executive Director of the Solar Energy Industries Association since January 2001. First Solar Press Release:

http://www.firstsolar.com/company_news.html

Coverage at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6603>

The SEIA Board appointed Scott Sklar as Acting Interim Executive Director to facilitate the selection of an Executive Director and to deal with any interim Association issues. [Scott Sklar]

4-27-04 Sharp PV Systems for Homebuilders

Sharp Electronics Corporation announced it has signed agreements with homebuilders Clarum Homes and William Lyon Homes, Inc. to supply solar energy systems. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR366.htm>

Sharp: <http://www.sharpUSA.com/solar/SolarLanding/0,2286,,00.html?>

4-27-04 Connecticut, 20% Clean Energy by 2010

Connecticut Governor John Rowland signed an executive order calling on the state government to purchase 20% of its total electricity from clean, renewable energy by 2010. Rowland said the state would purchase half of its electricity from renewable sources by 2020 and all of its energy from renewable sources by 2050. Story at:

<http://www.wastenews.com/headlines2.html?id=1083006418>

4-27-04 Japan, Solar Power Generator

Japan's "largest solar power system" was completed Tuesday at a national science research center in Tsukuba, Ibaraki Prefecture. The solar panels cover 6,500 square meters, and can generate over 1,000 kW of electricity. The National Institute of Advanced Industrial Science and Technology will use the system to test and evaluate 4 kinds of materials for solar panels. Story through Solarbuzz at: <http://home.kyodo.co.jp/all/display.jsp?an=20040427056%20>

4-27-04 Clean Technology Investments

Says Martin Roscheisen, CEO of Nanosolar, "We're at the threshold of making solar electricity profitable ... We're being contacted all the time by investors." The company raised \$6.5M last year from U.S. Venture Partners, Benchmark Capital, and other investors. In 2003, investment in clean-technology ventures rose 8% to \$1.2 billion. Story at:

<http://www.azcentral.com/arizonarepublic/business/articles/0427greenventures27.html>

4-27-04 Solar Photo Voltaics Fast Growing

Research and Markets announced the addition of Solar Photo Voltaics 2003 Edition 1 to their selections. According to the article, solar photovoltaics, together with wind power, are the two fastest growing and most promising forms of renewable energy for electricity generation. Story at: <http://www.tmcnet.com/usubmit/2004/Apr/1034982.htm>

4-26-04 Glenn Hamer Appointment (Paula Vaughn)

First Solar announced that Glenn Hamer will join the company in a senior executive role effective May 1, 2004. Hamer has been the Executive Director of the Solar Energy Industries Association since January 2001.

First Solar Press Release: http://www.firstsolar.com/company_news.html

Coverage at Solarbuzz: <http://www.solarbuzz.com/news/NewsNACO206.htm>

4-26-04 SEIA Newsletter:

In a letter to SEIA's Board, Executive Director Glenn Hamer announced his resignation as SEIA's Executive Director, pending selection of a qualified replacement. The SEIA Board will meet April 26 to begin the process of selecting a replacement. [Colin Murchie]

4-26-04 California, Request for Bid for 4 MW PV and DG

The Department of General Services and the California Power Authority released a Request for Proposal for the California State Facility Solar Power Purchase Program. It is seeking to contract for about 4 MW of private-party-owned on-site solar electric systems. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR365.htm>

4-26-04 USDA Grants & Loans

More information and news on the USDA's Farm Bill funding for renewable energy will be accessible from: <http://www.rurdev.usda.gov/rbs/farbill/register.html> [highlighted in SEIA Newsletter, Colin Murchie]

4-26-04 Interstate Renewable Energy Council (Jane Pulaski)

For information on topics from Million Solar Roofs, to zero energy homes, to interconnection standards, see the IREC newsletter at: <http://irecusa.org/>

4-26-04 India, Ministry of Non-Conventional Energy Sources Applications for BIPV Contractors (E.V.R. Sastry)

The Ministry of Non-Conventional Energy Sources in India has issued a notice inviting applications for pre-qualification of contractors for the supply and installation of BIPV systems in

6 buildings of the Sardar Swaran Singh National Institute of Renewable Energy near the city of Jalandhar in the Indian state of Punjab. The deadline is May 31, 2004. See the notice at: http://mnes.nic.in/tender_notice/prequalification.doc

4-26-04 Nigeria, Solar Electrification

Jigawa Alternative Energy Trust fund, with the U.S. DOE and U.S. AID, is dedicating a solar electric project in Jigawa State. The project is a result of a \$600,000 solar rural electrification and water-pumping project for 3 villages in Jigawa State. Story through Solarbuzz at: <http://www.thisdayonline.com/news/20040423news38.html>

4-26-04 More on solarcentury's New Roof Tile

Coverage of solarcentury's new PV roof tile, C21, with photo can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6600>
solarcentury: <http://www.solarcentury.co.uk/>

4-26-04 U.S. Senate Energy & Natural Resource Committee Hearing

The hearing on April 27 will cover sustainable, low-emission electricity generation including renewable energy. Witnesses include Richard Smalley, David Garman, Ernie Moniz, and Francis Burke.

[U.S. Department of Energy National Center for Photovoltaics](#)

4-23-04 Sharp Modules

On June 1, Sharp Corporation will launch a new solar module designed to reduce the glare of sunlight and increase output. And, on July 1, the company will launch another module with a 14.8% efficiency for smaller PV roof systems. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsASPT25.htm>

4-23-04 Evergreen Solar Manufacturing Capacity

Evergreen Solar, Inc., announced it has doubled its manufacturing capacity over 2003. The factory now has a capacity of 6 MW per year, up from the 3-MW capacity of Line 1. Information at: http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=ESLR&script=410&layout=-6&item_id=518538

4-23-04 BP Solar Panel System at Whole Foods

Whole Foods Market dedicated its newly installed BP Solar Panel System in Edgewater, New Jersey, as part of Earth Day 2004. Whole Foods Market partnered with BP Solar, Sun Edison, and A-Net Energy on the commercial-scale system. The 120-kW solar array covers 14,000 square feet on the roof of the store. Stories at Solarbuzz and SolarAccess:

<http://www.solarbuzz.com/News/NewsNAPR364.htm>
<http://www.solaraccess.com/news/story?storyid=6572>
BP Solar: <http://www.bpsolar.com/DisplayNews.cfm?id=80>

4-23-04 Xantrex and Sunslates

Xantrex Technology and Atlantis Energy Systems have formed an alliance under which Xantrex's Sun Tie XR Grid tie inverter and Atlantis' Sunslates PV roofing will be offered as a single package in a national program. Story at: <http://www.builderonline.com/article-builder.asp?channelID=55&ionID=13&articleID=50807>

4-23-04 Uni-Solar PV System in Sacramento

A Habitat for Humanity home near Sacramento now has a UNI-SOLAR(R) (UNI-SOLAR® is a registered trademark of the United Solar Ovonic Corporation) PV system through a project

coordinated in response to Governor Schwarzenegger's solar initiative to increase the use of residential solar energy throughout California. Other PV projects are underway with Habitat for Humanity and home developers throughout the State. Story at: http://biz.yahoo.com/prnews/040422/lath140_1.html

4-23-04 Mauritius Renewable Energy

Mauritius wants to develop local sources of energy, the deputy prime minister said on Thursday. Said Pravind Jugnauth, Mauritius plans to generate electricity from wind energy, solar energy and biomass. Story at: http://www.reuters.com/locales/c_newsArticle.jsp?type=businessNews&localeKey=en_IN&storyID=4910563

4-23-04 Dish Stirling Developments

April 27 in Phoenix, Arizona, a "productionized" 25-kW unit, along with a new manufacturing facility to mass-produce the dishes will be unveiled. The development stems from a partnership between Stirling Energy Systems and Schuff Steel. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6589>
Stirling Energy Systems: <http://www.stirlingenergy.com/>
Schuff International: <http://www.schuff.com/index.html>

4-22-04 Earth Day: <http://earthday.envirolink.org/>

4-22-04 DayStar Technologies Communications

DayStar Technologies, Inc. announced it has engaged Elite Financial Communications Group, LLC to launch a comprehensive marketing campaign to increase investor awareness and market support among individual and professional investors, industry and securities analysts and media professionals. Said John Tuttle, Chairman and CEO of DayStar, "DayStar looks forward to working with Elite to help communicate the role that Photovoltaics and DayStar will play in revolutionizing the energy industry." Story at: http://biz.yahoo.com/prnews/040422/sfth044_1.html

4-22-04 More Coverage on Konarka's Polymer-based PV

Konarka Technologies, Inc. has created prototype dye-sensitized PV cells that have efficiencies of nearly 8%, and has developed a manufacturing process that uses coating equipment and plastic substrate, cutting production costs for its PV cells. Konarka recently broadened its PV technology platform by licensing DuPont Electronic & Communication Technologies intellectual property related to the integrated use of dye-sensitized and polymer materials for PV cell development. More on this technology at: http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=50166217&ID=cnniw&scategory=Energy%3AAlternative&

4-22-04 Solar Cell Advances

An article in The Santa Fe New Mexican covers work by Los Alamos National Laboratory physicists Victor Klimov and Richard Schaller regarding research for a prototype solar cell. Story at: http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=50134731&ID=cnniw&scategory=Energy%3AAlternative&

4-22-04 PV Concentrators

Photon International April 2004 carries an article titled "PV concentrators: Many suns make light work" by Bob McConnell. McConnell chaired the International Solar Concentrator Conference held in Australia. Anyone interested in a copy of the Australian concentrator conference

presentations on CD ROM can contact Bob McConnell at NREL Bob_McConnell@nrel.gov; the publication is listed as NREL/CD-520-35349, January 2004. Photon International (specific article link not live): http://www.photon-magazine.com/photon/news_issue_2004-04.htm

4-22-04 California, Solar Forum

A California Solar Center - Solar Forum is scheduled for 5 May in San Francisco. It is open to all parties interested in learning about current issues regarding solar energy policy in California, and offers networking opportunities. More at: http://www.californiasolarcenter.org/reg_forum-may2004.html

4-22-04 California, Sun Power

Oroville Mayor Gordon Andoe is celebrating Earth Day by dedicating 5 solar energy systems for the City of Oroville; he proclaimed Oroville "Solar City USA" on Earth Day last year. A 1.2 MW system currently under construction at the Butte County Center will go on line in summer 2004, bringing installed solar power to 2.6 MW. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR363.htm>

Oroville's solar installations: <http://www.solarcityusa.com/>

Sun Power & Geothermal Energy: <http://www.sunpowergeothermal.com/>

4-22-04 U.K., New Generation of Solar Homes

The first installation of the new PV roof tile, C21, took place on a development of 6 new homes in Lincolnshire. According to the press, C21 roof integrated solar technology is being launched at Interbuild on 26 April and has been short-listed in the Best Exterior Product category at the Interbuild New Product Awards. Said Steff Wright, CEO, Gusto Construction, "We're excited to be pioneering this new product from solarcentury." Story at:

<http://www.solarcentury.co.uk/news/newsitem.jsp?newsid=378>

4-22-04 Philippines, Solar Electrification in Remote Villages

Enrique Gallardo, manager for the Alliance for Mindanao Off-grid Renewable Energy (AMORE) Area 3 said that 13 former conflict-affected villages are undergoing solar electrification. Story through Solarbuzz at: <http://www.mindanews.com/2004/04/20nws-energy.html>

4-22-04 California, Hydrogen Highway

In the Hydrogen Highway plan unveiled by Governor Schwarzenegger, the governor's order commits California to a number of actions by 2010, such as: "Appropriate incentives will be provided to encourage the purchase of hydrogen-powered vehicles and to encourage the development of renewable sources of energy for hydrogen production." Story and link to the Executive Order at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6578>

4-22-04 Hydrogen Conference (Emily Brown, SEIA)

"Hydrogen: A Clean Energy Choice", NHA's 15th Annual U.S. Hydrogen Conference and Hydrogen Expo USA, 26-29 April, will include a "Hydrogen Analysis Symposium", as well as a session on renewable hydrogen production. Agenda at:

<http://www.hydrogenconference.org/Agenda.pdf>

4-22-04 California, Grid Alternatives

GRID Alternatives, a San Francisco-based nonprofit, aims to install solar systems at homes in San Mateo County, and do the same in San Francisco, Pleasanton, and elsewhere. Story at:

<http://www.sanmateocountytimes.com/Stories/0,1413,87~11268~2100371,00.html>

GRID Alternatives: <http://www.gridalternatives.org/>

4-21-04 Shell Solar Power in Ohio

Shell Solar and one of its solar contractors, Third Sun Solar and Wind Power, announced completion of 2 PV panels at the Athens City-County Health Department in Ohio for critical backup power to the health department during emergency situations. Story at:

http://biz.yahoo.com/prnews/040420/datu077_1.html

Coverage at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR361.htm>

4-21-04 Proton Energy Systems Fueling Infrastructure for Hydrogen Highway

Proton Energy Systems, Inc. announced its intention to provide hydrogen generation and fueling technologies as key infrastructure components for California's new "Hydrogen Highway" and renewable energy economy. Said Chip Schroeder, President of Distributed Energy Systems, "When the electricity to run our hydrogen generators comes from solar, wind, or hydro power, a truly sustainable energy future can be achieved". Story at:

http://biz.yahoo.com/prnews/040420/cgtu052_1.html

Proton Energy Systems: <http://www.protonenergy.com/>

4-21-04 Stuart Energy Systems Next Generation Hydrogen Station

Stuart Energy Systems Corporation unveiled its small Stuart Energy Station (SES), a configurable water electrolysis infrastructure solution that produces and delivers hydrogen. When tied to renewable sources of electricity, such as PV solar or wind power systems, the SES offers a completely zero-emission energy cycle. The small SES, unveiled at Governor Schwarzenegger's Hydrogen Highway announcement, is configured to operate directly from PV solar power, or from grid electricity, and is being demonstrated using Solar Integrated Technologies' solar canopy. Story at: http://biz.yahoo.com/bw/040420/205884_1.html
Stuart Energy: <http://www.stuartenergy.com/>

4-21-04 DOE Deployment Position

According to Platts Inside Energy (subscription), a top DOE official said that DOE's decision to hire a deployment czar for renewable and energy efficiency technologies (see posting in yesterday's NCPV Hotline) does not signify a commitment to focus more on commercial applications than on long-term R&D. [Platts Inside Energy, www.platts.com]

4-21-04 Arizona, Tucson Electric Power Program

Through the SunShare program, the power company, in conjunction with Greenwatts, is helping customers pay for their solar panels. Story at:

http://www.tucsoncitizen.com/index.php?page=business&story_id=042104a11_solarhome

More coverage of Arizona activity at:

<http://www.oaklandtribune.com/Stories/0,1413,82~10834~2097777,00.html>

4-21-04 Magna Solar Power Delivery

Magna Solar Power, Inc. delivered a Xantrex 10-kW utility interactive inverter system to the Arizona Department of Emergency Services and Military Affairs. "The Xantrex inverter is an important asset for the Arizona National Guard's energy efficient program. It will, in combination with BP Solar photovoltaic modules, produce reliable electricity for years and allow more assets to be deployed to direct mission requirements," said John Walker, Magna Solar's CEO. Story at: http://biz.yahoo.com/bw/040421/215492_1.html

4-21-04 Uni-Solar Ovonic and Solar Integrated Technologies Alliance

United Solar Ovonic LLC announced it has entered into an agreement with Solar Integrated Technologies to expand their alliance formed in January 2003. Under the agreement, SIT has certain exclusive rights to utilize UNI-SOLAR(R) (UNI-SOLAR® is a registered trademark of the United Solar Ovonic LLC) flexible solar electric laminates for integration with single-ply roofing

membranes for commercial, institutional, and industrial buildings in North America. For more on this agreement, see: http://biz.yahoo.com/prnews/040421/dew005_1.html
Solar Integrated Technologies: <http://www.solarintegrated.com/>
Uni-Solar: <http://www.uni-solar.com/>

4-21-04 Life Cycle Analysis and Recycling of Solar Modules Proceedings (Arnulf Jaeger-Waldau)

The presentations and proceedings of the Workshop Life Cycle Analysis and Recycling of Solar Modules - the "Waste" Challenge in Brussels in March are available in the event section of the Scientific Technical Reference System on RE&EEE web page, <http://streference.jrc.cec.eu.int/>

4-21-04 Konarka Collaboration with Oak Ridge National Laboratory (Joe Romano)

Konarka Technologies, Inc., announced it is collaborating with Oak Ridge National Laboratory to further technology development for Konarka's PV products. Per the press release, Oak Ridge National Laboratory has selected Konarka as its exclusive partner for R&D of chemistry related to solar cells. Said Dr. Russell Guadiana, Vice President, Research & Development, Konarka Technologies, "We are working with Oak Ridge to develop technologies that will improve our manufacturing processes and lower the cost of our third-generation, flexible photovoltaic materials. Research is critical to any company developing commercial products. Konarka continues to expand its collaboration with world-renowned research teams to maximize its research and development efforts." [Joe Romano, Press Release]
Konarka Press: http://www.konarkatech.com/news_press.php

4-21-04 California, SANYO North America Dedicates PV Systems

SANYO North America dedicated 2 new solar installations that generate 200 kW of electrical power for the company's new facilities in San Diego. The 2 arrays, a 150-kW PowerLight PowerGuard(R) (PowerGuard® is a registered trademark of the PowerLight Corporation) system on the roof of Sanyo's U.S. headquarters, and a 50-kW PowerLight PowerTracker(R) (PowerTracker® is a registered trademark of PowerLight Corporation) on the adjacent carport structure, were furnished by PowerLight Corporation using SANYO's frameless HIT-190 solar modules. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR362.htm>
Sanyo: <http://www.sanyo.com/home.cfm>
PowerLight: <http://www.powerlight.com/>

4-21-04 Low-emission Electricity Generation Hearing

The Senate's Energy & Natural Resources Committee holds a hearing on Sustainable, Low-emission Electricity Generation on April 27 at 10am. Witnesses to be announced.

4-20-04 California, Sharp Solar System Installation

Sharp Electronics Corporation announced a new 200 kW Sharp PV system installation at a multi-tenant office building in Santa Rosa, California. According to the announcement, the building represents Northern California's first "Zero Energy" commercial real estate complex. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR360.htm>
Sharp: <http://www.sharppusa.com/solar/SolarLanding/0,2286,,00.html>

4-20-04 Solar-Hydrogen House

The Solar-Hydrogen Eco-house, part of the Universiti Kebangsaan Malaysia new fuel cell and automotive research center, is self-sustainable and runs on hydrogen. The eco-house relies on a PV hydrogen production and storage system to power household appliances and a fuel cell. Story and photos at:
<http://thestar.com.my/lifestyle/story.asp?file=/2004/4/20/features/7725984&sec=features>

4-20-04 Universal Communication Systems Product Orders

Universal Communication Systems Inc. announced that its subsidiary Millennium Electric TOU Limited has received \$7M in current product orders, and expects over \$22M in additional orders in fiscal year 2004. More on their PV business and new markets at:

http://biz.yahoo.com/prnews/040420/fitu019_1.html

Universal Communication Systems: <http://www.ucsy.com/>

Millennium Electric TOU, Inc.: <http://www.millennium-electric-inc.com/>

4-20-04 Kaptur's Earth Day Announcements (Tom Surek)

Congresswoman Marcy Kaptur, Ohio, announced a series of alternative energy initiatives, including \$1M in research for on-demand Photovoltaic Hydrogen power at the University of Toledo. Said Kaptur, "We need an Apollo Project or Manhattan Project in ten years to make us energy independent ...". [hardcopy, Kaptur Press Release, April 19] Kaptur Web site:

<http://www.house.gov/kaptur/default.asp>

4-20-04 Arrowhead Research Corp's New Nanotech Subsidiary

Arrowhead Research Corporation announced that its newly formed nanotech subsidiary - Aonex Technologies, Inc., -- has named Sean Olson as President. Aonex Technologies was formed to commercialize a patented method for transferring nano-layers of semiconductor materials and oxides onto low-cost substrates with no adhesives and with controlled stress. Early applications are expected to include development of inexpensive laminate wafers, which are expected to reduce manufacturing costs and improve performance for devices such as LED's and high-efficiency solar cells. Information at:

http://biz.yahoo.com/prnews/040420/cgtu017_1.html

4-20-04 WorldWater Shipment

WorldWater Corp. announced it will ship an additional \$1.3 M of PV equipment to the job site at Cerro Coso College in Ridgecrest, California. WorldWater is the exclusive PV supplier for the 1-MW project. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR359.htm>

WorldWater: <http://www.worldwater.com/WW/wwwpages/california.html#cerro>

4-20-04 Solar Progress

An article on Solar Power - "Larger Projects Gain Ground As Technology Improves" - can be found in Engineering News-Record at:

<http://www.enr.com/news/powerIndus/archives/040419.asp>

4-20-04 Low-emission Electricity Generation Hearing

The Senate's Energy & Natural Resources Committee holds a hearing on Sustainable, Low-emission Electricity Generation on April 27 at 10am. Witnesses to be announced.

4-20-04 Energy Efficiency & Renewable Energy Deployment Job Posting

The U.S. DOE has posted a "Senior Executive Service Employment Opportunity" for "Director, Regional Office and Deployment Operations" in the Office of the Assistant Secretary for Energy Efficiency and Renewable Energy, Deputy Assistant Secretary for Technology Development. The Director will be responsible for managing and directing programmatic and technical aspects of EERE's efforts to better focus and integrate the deployment of renewable energy and energy efficiency technologies. More information and requirements at:

<http://jobsearch.usajobs.opm.gov/getjob.asp?JobID=21473545&AVSDM=2004%2D04%2D19+13%3A56%3A39&Logo=0&col=dltc&cy=&brd=3876&lid=316&fn=&q=energy+efficiency+and+renewable+energy>

Highlighted In Platts Inside Energy (subscription) www.platts.com

4-20-04 More on World's Largest PV Plant

More on the world's largest PV plant can be found in the press at: <http://www.imonews-journal.com/html/noticia.php?id=123>[Portugal press]
http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=49910108&ID=cnniw&scategory=Energy%3AAlternative&

4-20-04 North American Energy Summit Recommendations (Bud Annan)

Recommendations from the North American Energy Summit, governors' statements, and other materials from the summit are available at the Western Governor's Association Web site at: <http://www.westgov.org/wga/initiatives/energy/summit/index.htm>

4-20-04 Governor Richardson's Commitment to Solar & Renewable Energy

At the North American Energy Summit in Albuquerque, Governor Richardson announced several initiatives. He signed an executive order declaring New Mexico as the "Clean Energy State", which creates the Clean Energy Development Council, he's supporting a goal of at least 10% of the state's energy coming from renewable sources by 2010, he's supporting the effort to develop a new solar panel assembly facility in Taos, and has announced further details of the Solar Power Task Force. The Energy, Minerals & Natural Resources Department will take the lead in creating the task force, which will develop a proposal for a large solar electric facility in New Mexico by the end of the year. [New Mexico Governor's Office, Marsha L. Catron]

4-20-04 Governor Richardson on Concentrating Solar

In the keynote address delivered at the North American Energy Summit last week, Governor Richardson says, "Here in New Mexico I have told our energy planners that we want a proposal for a concentrating solar plant designed and ready to fund by late this year."
<http://www.governor.state.nm.us/speeches.html>

4-19-04 Portugal, World's Largest Solar Energy Plant

The General Directorate of Energy plans to install more than 100 hectares of solar panels with a total production capacity of 64 MW. BP Solar Espana will be in charge of installation. A unit for the manufacture and installation of PV modules is being built. Story at: http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=49910108&ID=cnniw&scategory=Energy%3AAlternative&

4-19-04 Venture Capital Going Green

With over euro 50 million already invested in 2004, European venture capital firms are showing increased interest for "Cleantech", or renewable-energy startups. Story at: <http://www.tornado-insider.com/news/Article.asp?id=13280>

4-19-04 U.S. DOE PV System Installation Accreditation and Certification Program

The U.S. DOE's Funding Opportunity titled National Accreditation and Certification Program For Installation and Acceptance of Photovoltaic Systems, with an application due date of June 5, 2004, can be found at: <https://e-center.doe.gov/iips/faopor.nsf/8373d2fc6d83b66685256452007963f5/8f2cc18e1763189485256e76005dfd42?OpenDocument>

4-19-04 Michigan, Calvin College Building LEED Gold Rating

A large PV array on the building's roof is the outcome of a student proposal and resulting \$91,000 grant provided by the Energy Office of the State of Michigan, and will provide 60% of the building's power. Story through Solarbuzz at: http://www.calvin.edu/news/releases/2003_04/bunker_center.htm

4-19-04 More on Origin's "Sliver" Technology

A \$20-million solar energy manufacturing plant to be built in South Australia and opened by late next year will take advantage of a technology that uses 90% less silicon than conventional solar cells. Story at: <http://www.theage.com.au/articles/2004/04/18/1082140125998.html>

4-19-04 More on Siemens Organic PV

Additional coverage of Siemens organic solar cells can be found at: http://www.german-renewable-energy.com/www/main.php?tplid=6&aktuell_id=15&PHPSESSID=383a0ccb1a476a093c19b66f3c416f5e

4-19-04 Western Renewable Energy Generation Information System

Information on WREGIS can be found at the Western Governor's Association Website: <http://www.westgov.org/wieb/wregis/>

4-19-04 SunWize Technologies Sales Manager

SunWize Technologies announced that Mark Paddison joined the sales team as Sales Manager for Canada to service renewable energy dealers. Press at Solarbuzz:

<http://www.solarbuzz.com/news/NewsNACO203.htm>

SunWize Technologies: <http://www.sunwize.com/>

4-19-04 Low-emission Electricity Generation Hearing

The Senate's Energy & Natural Resources Committee holds a hearing on Sustainable, Low-emission Electricity Generation on April 27 at 10am. Witnesses not announced yet.

4-19-04 Office of Management and Budget, Scientific Peer Review Process

The Office of Management and Budget released a revised draft of guidance to agencies, and requested additional public comment on the appropriate use of peer review, as part of a "continuing effort to enhance the quality and credibility of scientific information that is disseminated to the public". Information at: <http://www.whitehouse.gov/omb/pubpress/>

4-19-04 Voltaix, Inc. Strained Silicon and Silicon Germanium Technologies

Voltaix, Inc., has expanded its manufacturing facilities for a new product that offers ease in control of SiGe or SiGe:C layer composition, greater uniformity of Si, SiGe and SiN layers, and deposition of very thin, smooth films on all surfaces of importance in semiconductor devices.

More at: <http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=104&STORY=/www/story/04-16-2004/0002153270&EDATE=>

Voltaix: <http://www.voltaix.com/>

4-19-04 Thailand Solar Home System

The Provincial Electricity Authority has initiated a project called the "Solar Home System" to provide free solar panels. Story at:

<http://203.150.224.53/page.news.php3?clid=20&id=112072&usrsses=1>

4-16-04 Solar Panel Manufacturing and Solar Electricity Production Project (New Energy Capital)

At the Financing the Future of Energy workshop at the North American Energy Summit, 4 companies announced the signing of an agreement to locally manufacture solar panels and generate solar electricity in the rural communities of northern New Mexico. The companies are Kit Carson Electric Cooperative, SolarPort, Spire Corporation, and New Energy Capital. Said Governor Richardson of New Mexico, "We are pleased that this Northern New Mexico solar project brings renewable energy and opportunities for economic development to the

communities of northern New Mexico." See attached press release below.

Coverage at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6535>

Coverage through Solarbuzz:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=49868571&ID=cnniw&scategory=Energy%3AAlternative&

Other press:

http://www.rockymountainnews.com/drmn/business/article/0,1299,DRMN_4_2809367,00.html

<http://www.santafenewmexican.com/main.asp?SectionID=2&SubSectionID=7&ArticleID=43464>

New Energy Capital: <http://www.newenergycapital.com/>

SPIRE: <http://www.solaraccess.com/marketplace/compdetail?compid=1902>

Kit Carson: <http://www.kitcarson.com/>

SolarPort: <http://www.solarport.net/>

4-16-04 Western Renewable Energy Generation System

Governor Richardson of New Mexico announced that the Information System for the West will track and verify the generation of renewable energy by state and company, and would be in place by 2005. Story at:

http://www.rockymountainnews.com/drmn/business/article/0,1299,DRMN_4_2812529,00.html

4-16-04 California State University PV Rebate

Cal State Hayward accepted a check for more than \$3.4 million from Pacific Gas & Electric for installing a solar electric system estimated to generate 1.45 million kWh a year. PowerLight installed the 1.05 MW PV system. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR358.htm>

PowerLight: <http://www.powerlight.com/>

4-16-04 China Solar Cell Production

Mainland China will enter the top 5 rankings of countries with the largest output of solar cells next year according to the market-research firm Beijing MOne Inc. Total capacity doubled to 30 MW last year, and the forecast is to double to 60 MW this year. Story at:

http://www.electroniccomponents.globalsources.com/am/article_id/9000000051349/page/showarticle?action=GetArticle

4-16-04 Renewable Energy & Energy Efficiency Expo & Ice Cream Social (Ken Bossong)

The 7th Annual Congressional Renewable Energy and Energy Efficiency Caucus will bring together more than 50 companies from across the U.S. representing more than 2 dozen renewable energy and energy efficiency technologies. The Expo is co-sponsored by the members of the Sustainable Energy Coalition and the House and Senate Renewable Energy and Energy Efficiency Causes: Tuesday, June 8, 2004, 10 am-5 pm, Caucus Room, Cannon House Office Building 1st St. & Independence Ave. S.E., Washington, D.C. Previous Expos have drawn an average of 3,000 visitors including Congressional members and their staff, Executive Branch officials, media, and general public. (Sustainable Energy Coalition press)

4-16-04 Berkeley Study - Renewables and Jobs (Christophe Inglin)

For a direct link to the Berkeley Renewables study, see:

<http://socrates.berkeley.edu/~rael/outreach.html>

4-16-04 More on Solargenix in Chicago

Solargenix will receive a \$1.7 million loan from Chicago, to be repaid over 5 years. And the city and sister agencies agreed to buy \$5 million worth of solar thermal collectors to install over the next 3 years. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6531>

4-15-04 Germany, Conergy Outlook

Conergy Group says they have transformed the company over the last year into a leading supplier of solar systems and components in Europe. According to the article, with about 30 MW of PV capacity, the company had a market share in Germany of significantly more than 20%.

Also, at the end of November, solar-thermal production began at Landshut. Story at

SolarAccess: <http://www.solaraccess.com/news/story?storyid=6528>

Conergy press: http://www.conergy.de/international/presse/04_04_14.php

Conergy: <http://www.conergy.de/international/>

http://conergy.de/international/produkte/conergy_106lpro.php

April 16, 2004

Solar Panel Manufacturing and Solar Electricity Production Project Announced for Northern New Mexico

Press release, New Energy Capital; Carole Parker, Daniel Goldman:

Governor Bill Richardson endorses Northern New Mexico Solar Project at North American Energy Summit today

Albuquerque, NM, April 14, 2004 — At the Financing the Future of Energy workshop today at the North American Energy Summit, four companies announced the signing of an agreement to locally manufacture solar panels and generate solar electricity in the rural communities of northern New Mexico. The companies are Kit Carson Electric Cooperative and SolarPort, both of Taos, New Mexico, Spire Corporation of Bedford, Massachusetts, and New Energy Capital of Wellesley Hills, Massachusetts.

Governor Bill Richardson endorsed the project during an announcement of several energy initiatives at the workshop. "We are pleased that this Northern New Mexico solar project brings renewable energy and opportunities for economic development to the communities of northern New Mexico," Richardson said.

Under the agreement solar panels will be assembled at a Spire Corporation facility to be located in Taos and installed in various locations around northern New Mexico. New Mexico utilities, including Kit Carson, will purchase the solar-generated electricity. Spire recently developed a similar solar panel assembly plant in collaboration with the City of Chicago, Commonwealth Edison (the local utility), and the State of Illinois.

The agreement announced today will also help New Mexico utilities meet a new State requirement, known as the Renewable Portfolio Standard (RPS), to purchase more electricity from renewable energy sources. The Parties also agreed to support the creation of PowerTaos! — an education, public awareness and marketing campaign to increase the use of solar energy and encourage involvement by local, State and federal agencies, local businesses, non-profit organizations, national laboratories, and the utility customers of northern New Mexico.

The project is expected to create initially about 30 jobs in solar panel assembly, installation and related work. The prospects for additional jobs are significant as New Mexico utilities buy increasing amounts of renewable energy pursuant to the state RPS and the extra credit provided for solar power under the new law.

Dan Reicher, President of New Energy Capital said, "We are excited by the momentum we see in New Mexico for solar energy, and by Governor Richardson's leadership in bringing rural communities, utilities and entrepreneurs together to realize the benefits of solar energy in

the state." Reicher was formerly Assistant Secretary of Energy for Energy Efficiency and Renewable Energy at the U.S. Department of Energy. New Energy Capital finances, owns and operates renewable energy and distributed generation projects.

Roger G. Little, President & CEO of Spire said, "We're excited to be working in Taos. We see this as a logical next step to bring to New Mexico some of the clean energy and economic benefits we're seeing in Chicago." Spire Corporation (NASDAQ:SPIR) is the world's leading supplier of solar module manufacturing equipment, providing equipment to more than 150 facilities in 42 countries worldwide.

Joel Goldblatt, SolarPort's Manager and Co-Founder said, "SolarPort is a new, renewable energy provider: we're at the right place, at the right time for solar energy in New Mexico. In support of Governor Richardson's call to make New Mexico 'The Clean Energy State', we look forward to launching the PowerTaos! Campaign."

SolarPort uses solar power generation and distribution, co-located with energy-efficient greenhouses, to involve local entrepreneurs, create new jobs, and promote education and commerce centered around making, selling and using solar electricity in the community.

Kit Carson is a rural electric cooperative serving Taos and two surrounding counties in northern New Mexico. Luis Reyes, Kit Carson CEO said, "Kit Carson is ready to lead the rural electric cooperatives with this project, to bring clean, renewable solar electricity into the homes and businesses of our members, and create a new surge of exciting economic development for northern New Mexico."

30

Northern New Mexico Solar Energy Production Project

Contacts:

Luis Reyes, CEO
Kit Carson Electric Cooperative
www.kitcarson.com
505-758-2258

Dan Reicher, President
New Energy Capital
www.newenergycapital.com
802-496-3529

Roger G. Little, Chief Executive Officer
Spire Corporation
www.spirecorp.com
781-275-6000

Joel Goldblatt, Manager
SolarPort Holdings, LLC
www.solarport.net
505-776-2683

4-15-04 PowerLight Media Coverage

An article from Architectural Record, leading with, "In the U.S., Architects are Ramping up the Design Power of Photovoltaics," can be found at:

http://www.powerlight.com/company/media/2004/04.01.04_ARCHITECTURALRECORD_DesignPowerofPV.shtml

Also, coverage of the founding and growth of PowerLight can be found at

<http://www.sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/2004/04/13/BAGK662MB417.DTL>

Said Tom Dinwoodie, "The technology is inevitable. It's happening. This industry is growing as fast as an industry can grow right now."

4-15-04 Eastwood Energy Corporation PV Mounting System

Eastwood Energy Corporation has developed a flexible, proprietary, modular mounting system for solar electric systems focusing on designs that are non-invasive and applicable to flat or contoured roofs, as well as facilitate cooling of PV modules. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR357.htm>

Eastwood Energy: <http://www.eastwoodenergy.com/>

4-15-04 AEC Letter of Intent

Alternate Energy Corporation has signed a letter of intent to acquire a majority interest in Sterling Technologies, Inc., a subsidiary of Sterling Planet that deploys distributed generation technologies, primarily solar, through utilities and state-supported green energy programs.

Information at: <http://www.energyinfosource.com/aoi/news-details.cfm?id=21526&FLink=>

4-15-04 Richardson and Schwarzenegger on Renewables

Governors Bill Richardson and Arnold Schwarzenegger promoted renewable energy in a letter to energy and government officials planning to attend the North American Energy Summit this week. Story at: <http://www.abqjournal.com/news/state/apnrg04-14-04.htm>

Additional coverage of the events at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAGO166.htm> and

<http://www.theolympian.com/home/news/20040415/business/27572.shtml>

http://abcnews.go.com/wire/US/ap20040415_384.html

<http://www.thenewmexicochannel.com/news/3006947/detail.html>

4-15-04 More on Kyocera Residential Solar Power Generation Systems

Kyocera press on the April 2004 release of the newly developed residential solar power generation systems, including "attaining the world's greatest module conversion efficiency in multicrystal silicon solar cells," can be found at: <http://global.kyocera.com/news/2004/0306.html>

4-15-04 More on Renewables, Jobs, and the Apollo Alliance

Additional coverage of the Berkeley study on renewables and jobs, and the Apollo Alliance, can be found at: <http://sfgate.com/cgi-bin/article.cgi?f=/c/a/2004/04/14/BUGNG64K1E1.DTL>

Apollo Alliance: <http://www.apolloalliance.org/>

4-15-04 Regional Conference of Renewable Energy

Nineteen Arab states together with the Comoros, Iran, and Germany are expected to participate in the Regional Conference of Renewable Energy (RCRE) for the Middle East and North Africa countries on 21-22 April in Yemen. More at:

<http://www.sabanews.net/view.php?scope=f9129&dr=&ir=&id=66514>

4-15-04 Solar Photo Voltaics 2003 Edition (Amy Cole, Research & Markets)

Information about this report published by ABS Energy Research can be found at:

<http://www.researchandmarkets.com/reports/c1282> (may need browser other than Explorer).

4-14-04 China's Renewable Energy Future

An overview of renewable energy events and potential in China can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6505>

People's Daily coverage:

http://english.peopledaily.com.cn/200404/07/eng20040407_139735.shtml

4-14-04 Solar Car Project

For information on The Stanford Solar Car Project, and the team working on designing a new car for the 2005 American Solar Challenge, see:

http://daily.stanford.org/tempo?page=content&id=13740&repository=0001_article

4-14-04 Pacific Gas & Electric Incubator (Kevin Eber, EERE Network News)

As part of emerging from Chapter 11, PG&E will create a non-profit corporation to support research and investment in clean energy technology. Press at:

http://www.pge.com/news/news_releases/q2_2004/040412.html

EERE Network News:

<http://www.eere.energy.gov/news/archive.cfm/pubDate=%7Bd%20%272004%2D04%2D14%27%7D>

4-14-04 Maryland Renewables

The Maryland General Assembly gave final approval to legislation that will bring significant amounts of renewable energy to the state. The bill requires that 7.5% of the state's electricity come from renewable sources by 2014. Story at:

http://cnni.wyellowbrix.com/pages/cnni.w/Story.nsp?story_id=49768687&ID=cnni.w&scategory=Energ%3AAlternative&

4-14-04 Sustainable Energy Technologies Executive

Sustainable Energy Technologies Ltd announced the appointment of A.F. (Abby) Badwi as director of the company. Story at: <http://www2.ccnmatthews.com/scripts/ccn-release.pl?current/0413061n.html>

Sustainable Energy Technologies: <http://www.SustainableEnergy.com/SET-home/index.html>

4-14-04 Inverter UL Listing

SMA America Inc. announced a UL1741 listing for its Sunny Central 125 kW Utility Interactive Inverter. Story at: http://www.powerpulse.net/cgi-bin/displaystory_new.pl?id=10630

SMA: <http://www.sma-america.com/index.asp>

4-14-04 Ballard Power Converter

Ballard Power Systems introduced its 75 kW Ecostar(TM) (EcostarTM is a trademark of the Ballard Power Systems, Inc.) grid-tie power converter specifically designed for PV applications.

Press at: <http://www2.ccnmatthews.com/scripts/ccn-release.pl?current/0414032n.html>

Ballard: <http://www.ballard.com/>

4-14-04 Union of Concerned Scientists EnergyNet (SEI Newsletter)

For information on USC's Clean Energy "EnergyNet", see:

http://www.ucsusa.org/clean_energy/energynet/index.cfm

SEI Web site: <http://www.solarenergy.org/index.html>

4-14-04 Renewable Energy and Jobs

According to a report released by the University of California, Berkeley, "Across a broad range of scenarios, the renewable energy sector generates more jobs per average megawatt of power installed and per unit of energy produced, than the fossil-fuel-based energy sector." Story at: http://sanfrancisco.bizjournals.com/sanfrancisco/stories/2004/04/12/daily17.html?jst=b_in_hl
Coverage at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6513>

4-14-04 Daggett Solar Plant

The California Public Utilities Commission is scheduled on 22 April to discuss how to respond to a petition The Utility Reform Network filed requesting that the commission reconsider its December 2003 approval of plans for the plant. Story April 14 at: <http://www.desertdispatch.com/cgi-bin/newspro/viewnews.cgi?newsid1081948350,43663>, <http://www.desertdispatch.com/>

4-14-04 NREL Contract

A signing ceremony was held at the National Renewable Energy Laboratory on April 13 marking continued management and operation of the lab for DOE by Midwest Research Institute, with Battelle Memorial Institute as part of the management team. Story at: <http://releases.usnewswire.com/GetRelease.asp?id=148-04132004>

4-13-04 PV Catapult Agenda

The agenda for a meeting on 23 April 2004 in Munich can be found at: <http://www.pvcatapult.org/>. Topics include solar grade silicon, thin films, cell technologies, feed-in tariffs, results of SWOT analyses, etc. A PV Catapult Seminar in Athens 7-8 May 2004 will cover opportunities, perspectives, potentials, and hurdles in the enlarged EU market, and other topics.

4-13-04 Universal Communication Systems Inc. Share Purchase

Universal Communication Systems Inc. announced that they have executed a share purchase agreement to acquire 51% of GiraSolar PV of Amsterdam, Holland, that includes part ownership of Stroomwerk Energy BV and Solar Service Buro BV. Story at: http://biz.yahoo.com/bw/040413/135156_1.html
Universal Communication Systems: <http://www.ucsy.com/>
Stroomwerk: <http://www.stroomwerk.nl/>

4-13-04 California, Solar Installation for Aerospace Manufacturer

Paul Akian has installed more than 40,000 square feet of solar panels on the roof of his air-filter manufacturing plant in Valencia, generating more than half of his company's peak usage. The system is the largest ever installed by California Green Designs. Story through Solarbuzz at: <http://www.solarbuzz.com/index.asp>
<http://www.dailynews.com/Stories/0,1413,200%7E20949%7E2077923,00.html>

4-13-04 Renewable Energy Certificates

The Defense Energy Support Center has a Solicitation titled "Renewable Energy Certificates-NV, MN, MI, DC" at: <http://www.desc.dla.mil/DCM/DCMSolic.asp?SolicID=698>
Highlighted through the Green Power Network: <http://www.eere.energy.gov/greenpower/home.shtml>

4-13-04 California, Frito Lay PV Systems

Solar Integrated Technologies has authorization to proceed with installation of 3 100-kW PV integrated roof systems for Frito Lay. With completion, Frito Lay will have 500 kW of SIT PV

systems in service. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR356.htm>
Solar Integrated Technologies: <http://www.solarintegrated.com/>

4-13-04 U.S., Energy Tax Bill (Platts Inside Energy - subscription)

Platts Inside Energy (subscription) reports that Senate Democrats and Republicans have agreed on how they will complete debate on a corporate tax bill that includes a \$14-billion package of energy tax incentives.

4-12-04 Germany, 10 MW Plans

PowerLight and K & S Consulting plan installations equal to 10 MW in Bavaria, Germany. Story at Photon International: http://www.photon-magazine.com/news/news_2004-04%20eu%20sn%20Solarpark%20Neumarkt.htm

4-12-04 Nevada, Renewable Energy Rules

Renewable energy rules that establish incentives for a solar energy demonstration program have been adopted by the Nevada Public Utilities Commission. Starting in July, participants can get \$5 per Watt of capacity generated by solar energy systems, up to a total of 500 kW. Story through Solarbuzz at: <http://www.krnv.com/Global/story.asp?S=1774455&nav=8faOMBFH>

4-12-04 ECD Plans

Energy Conversion Devices hopes that increased PV sales through its subsidiary United Solar Ovonic LLC can help the renewable energy company out of negative margins. Story at Photon International: http://www.photon-magazine.com/news/news_2004-04%20am%20sn%20ECD%20Quarter%20Results.htm

4-12-04 Spain's Feed-in Tariff

A new law includes a guaranteed payment of 39.6 euro cents (49.5 cents) per kWh for systems up to 100 kW for 25 years, with payment on 80% of rated power output beyond that. Story at Photon International: http://www.photon-magazine.com/news/news_2004-04%20eu%20sn%20Spain%20royal%20decree.htm

4-12-04 More on the Multi-gap Solar Cell

Additional coverage of a new material concept for solar cells, a single semiconductor with multiple band gaps, can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6482>

4-12-04 Green Energy in the West

The Operational Rules Committee of the Western Renewable Energy Generation Information System released draft interim operating rules for a system to track and verify renewable energy generation in the West. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6485>
Western Governor's Association: <http://www.westgov.org/wieb/wregis/documents.htm>

4-12-04 North American Energy Summit this Week

Coverage of the North American Energy Summit can be found at: <http://www.azcentral.com/news/articles/0411westenergy11.html>
<http://www.westgov.org/wga/initiatives/energy/summit/>
http://news.yahoo.com/news?tmpl=story&u=/ap/20040412/ap_on_bi_ge/farm_scene_2

4-12-04 SolFest Southwest

SolFest will be held April 17-18, 2004 in Scottsdale, Arizona. For more information see the Web site at: <http://solfestsouthwest.org/2004/index.htm>

4-12-04 Montana, Solar Electric Demos

Applications are being accepted by the National Center for Appropriate Technology for the 2004 Residential Solar Electric Demonstration Project, the 2004 Fire Station Solar Electric Demonstration Project, and Sun4Communities. Details at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAGO165.htm>

4-12-04 Norddeutsche Affinerie Solar Cell Interest (March 2004)

For a press release on this company's interest in solar cells (noted by Photon International), see the press release (English, Public Relations, press release 3-3-04) at:

http://www.business.com/bdcframe.asp?ticker=G.NAF&src=http%3A//rd.business.com/index.asp%3Fbdcz%3Dcp.l.cc.ml.e%26bdc%3D0%26bdcu%3Dhttp%253A//www.na-ag.com/%26bdc%3D9E8A5441-EEFC-4528-AF2D-2A13C09C509E%26bdcf%3D4ee82281-ba94-11d4-90ff-00805fa7885a%26bdc%3D%26partner%3Dbdc%26title%3DNORDDEUTSCHE%2520AFFINERIE%2520AG&back=http%3A//www.business.com/directory/industrial_goods_and_services/materials/metals/copper_and_copper_loys/norddeutsche_affinerie_ag/profile/&path=/directory/industrial_goods_and_services/materials/metals/copper_and_copper_alloys

4-12-04 U.S., Top Ten Utility Green Pricing Programs

The top ten utility green pricing programs are described on the Green Power Network site at:

<http://www.eere.energy.gov/greenpower/topten.shtml>

4-9-04 Universal Communication Systems, Inc. Chinese Venture

Universal Communication Systems, Inc., announced that the company has signed an agreement with their Chinese joint venture partners to start a program of "PV Solarization" with 2 test cases - PetroChina Gas Stations in China. Story at:

http://biz.yahoo.com/prnews/040408/flth011_1.html

Universal Communication Systems: <http://www.ucsy.com/>

4-9-04 Interstate Renewable Energy Council Newsletter

See the latest newsletter from IREC for updates on a range of topics from PV projects in Oregon to million solar roofs, as well as links to updated information on state incentives for renewable energy (DSIRE), events, and fact sheets. Website: <http://irecusa.org/>

Newsletter: <http://www.irecusa.org/commout/enewsletter.html>

4-9-04 Pennsylvania Energy Development Authority

Governor Edward Rendell signed an executive order to revitalize the Pennsylvania Energy Development Authority to provide financing for a wide range of energy research, development and demonstration projects that will promote and utilize indigenous energy resources in Pennsylvania. Story at: http://biz.yahoo.com/prnews/040408/phth044_1.html

4-9-04 More on Solar Electrolyzer for Hydrogen

Hydrogenics announced that the National Research Council Canada will take delivery of a HyLYZER electrolyzer which will use solar power to make pure hydrogen from water. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6464>

4-9-04 MIT Study of Solar Impacts on Emissions

Researchers at MIT's Laboratory for Energy and the Environment's Analysis Group for Regional Electricity Alternatives looked at how emissions reductions from PV systems vary across the 48 states. Press at: <http://www.ascribe.org/cgi-bin/spew4th.pl?ascribeid=20040408.084616&time=10>

4-9-04 U.S. Energy Bill Tax Package

The combined corporate tax / energy tax bill will probably come up for more cloture votes when the Senate returns from recess on April 20. According to Environment and Energy Daily (subscription), Senate leaders have come to agreement on a finite list of amendments to the bill, which clears the way for a vote.

4-9-04 Wine and Solar Panels

Researchers have found that solar panels manufactured with red wine produce up to 12% more electricity than solar panels without it. Story at:

<http://www.winespectator.com/Wine/Daily/News/0,1145,2403,00.html>

4-9-04 WorldWater Corp Press

A correction to the press release on WorldWater Corp.'s \$3.64 M financing agreement can be found at: http://biz.yahoo.com/bw/040408/85542_1.html

4-7/8-04 California, Riverside PV Installation

A \$211,500 award from The Gas Company to the Riverside Housing Development Corporation helped to offset costs for the City of Riverside Public Utilities to install 47 kW of PV on low-income apartments. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR354.htm>

4-7/8-04 Sustainable Energy Coalition on Renewable Energy Funding (Ken Bossong)

The Coalition delivered a letter to congressional appropriators on April 6 calling for substantially increasing federal support for renewable energy technologies. The letter calls for a PV budget of \$100 million. News release, Sustainable Energy Coalition, 4-6-04.

4-7/8-04 More on Kyocera's Solar Electric Facility

More on Kyocera's plans to install a major solar electric generating facility at its North American headquarters can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6459>

Kyocera Solar: <http://www.solaraccess.com/marketplace/compdetail?compid=964>

4-7/8-04 Aquentium Subsidiary Charis Energy Development's Purchase Orders

Aquentium, Inc. announced that its subsidiary, Charis Energy Development, Inc., has received purchase orders exceeding \$10 million for their "newly invented non silicone, flexible, light weight solar panel." Charis Energy Development's initial marketing plan was to focus on international sales; however, they will expand the focus to cover schools and universities in the U.S. Said Aquentium President Mark Taggatz, "We are selling our panels at a very affordable price of \$2.50 per watt." Story at: http://biz.yahoo.com/prnews/040407/law050_1.html

4-7/8-04 Sunways AG

Information on Sunways revenues can be found at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUCO120.htm>. In 2003, Sunways expanded its production capacity to 12 MW and launched new products. The product portfolio was complemented by monocrystalline solar cells in November 2003.

Sunways AG: <http://www.sunways.de/de/>

<http://www.sunways.de/en/index.php>

4-7/8-04 Spire Solar Appointment

Spire Corporation announced the Spire Solar has appointed David Wissoker as Sales and Marketing Manager of Solar Equipment. Information at:

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040407005781&newsLang=en

4-7/8-04 ICP Solar Technologies Appointment

ICP Solar Technologies announced the appointment of Andrew Morris as Managing Director of ICP Solar Technologies (UK) Ltd., its European division. Morris will be responsible for management of commercial and financial operations at ICP Solar Technologies, which is instrumental in ICP's strategic entry into the large-scale power and solar rooftop markets. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6472>
ICP Solar: <http://www.icpsolar.com/>

4-7/8-04 ExxonMobile Report

ExxonMobil's study on Energy Trends, Greenhouse Gas Emissions and Alternative Energy, February 2004, can be found at:
http://www.exxonmobil.com/Corporate/Newsroom/Newsreleases/xom_nr_040204.asp

4-7/8-04 Inverters UL Approval

PV Powered announced it received Underwriters Laboratories 1741 Listing for the StarInverter PVP1800 and PVP2800, 1800-W and 2800-W utility interactive inverters. More information at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPT72.htm>
PV Powered: <http://www.pvpowered.com/>

4-7/8-04 More Coverage of GE Acquisition of AstroPower

Additional coverage of GE's acquisition of AstroPower can be found at:
<http://www.csrwire.com/sfarticle.cgi?id=1387>

4-7/8-04 U.S. Energy Bill Tax Package

The Senate attached a \$13 billion energy tax package to other proposed legislation, but fell short of votes that would have allowed final debate and passage.

4-6-04 WorldWater Corp. Financing Agreement

WorldWater Corp. announced it has received a \$3.64 million common stock purchase commitment, with a call on an additional \$3.64 million at WorldWater's option, for a total of \$7.28 million. Story at:
http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040406005145&newsLang=en WorldWater: <http://www.worldwater.com/>

4-6-04 WorldWater in Iraq

Chairman and CEO Quentin T. Kelly was interviewed on NPR's Marketplace about the risks and potential rewards of pursuing contracts in Iraq. Story at SolarAccess:
<http://www.solaraccess.com/news/story?storyid=6450>

4-6-04 Spectrolab in Space Technology Hall of Fame (Mike Kalachian)

Spectrolab's multi-junction solar cells were inducted into the Space Technology Hall of Fame last week, and four Spectrolab associates were honored - Bruce T. Cavicchi, James Ermer, Dr. Nasser H. Karam, and Dr. Richard R. King. To date, Spectrolab has delivered more than 1.4 million multi-junction space solar cells to leading domestic and international satellite manufacturers. Spectrolab solar cells and panels have powered more than 500 satellites and interplanetary missions during the past 40 years. Spectrolab press release:
<http://www.spectrolab.com/com/news/news-detail.asp?id=155>

4-6-04 Coverage of David Garman's Appointment

Additional coverage of David Garman's dual appointments can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6455>

4-6-04 More on GE's Acquisition of AstroPower

Additional coverage of GE's acquisition of AstroPower can be found at: <http://atlanta.bizjournals.com/atlanta/stories/2004/04/05/story2.html> "We're in it to be successful," said GE Energy CEO John Rice.

4-6-04 Black & Veatch Study

Black & Veatch has completed an economic impact study of renewable energy in Pennsylvania to determine potential benefits of investments. More at: http://ua.pennwellnet.com/articles/article_display.cfm?Section=ONART&Category=INDUS&PUBLICATION_ID=22&ARTICLE_ID=202074
Coverage at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6441>

4-6-04 Security PV Market

An article on security PV (SPV) markets can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6437>

4-6-04 U.S., Congressional Energy Hearings

Senate Energy & Natural Resources, oversight hearing to examine sustainable, low-emission, electricity generation, April 27, 2004.

4-6-04 U.S. Energy Bill

The Senate attached an energy tax package to corporate tax legislation. For information on the solar provisions, see SolarAccess: <http://www.solaraccess.com/news/story?storyid=6452>
Senate Press: http://energy.senate.gov/news/rep_release.cfm?id=220102

4-5-04 David Garman Appointment

U.S. Secretary of Energy Spencer Abraham issued a statement upon the announcement by the White House of their appointment of David Garman, currently DOE's Assistant Secretary of Energy Efficiency and Renewable Energy, to serve as the acting Under Secretary of Energy. Garman will continue his duties as Assistant Secretary of EERE while serving as the acting Under Secretary. Story at: <http://releases.usnewswire.com/GetRelease.asp?id=147-04022004>
More at: <http://www.nytimes.com/2004/04/04/politics/04ENER.html?ex=1082089225&ei=1&en=0d9c7919df9e084b>

4-5-04 San Diego, California, Kyocera Plans to Build Solar Electric Generating System

Kyocera announced plans to install a 251-kW solar electric generating facility at its North American headquarters and Kearny Mesa plant using 1,680 Kyocera KC-167G PV modules and 210 custom-manufactured light-filtering PV modules forming a carport. Story at: http://biz.yahoo.com/bw/040405/55394_1.html

4-5-04 Germany, More on Phonix SonnenStrom Plant

Phonix SonnenStrom AG inaugurated the largest installation in the world employing Mitsubishi Heavy Industries' MA 100 amorphous silicon PV modules. The 400-kW installation, located near Munich, uses 3,980 modules. Story and photos at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR149.htm>
Phonix SonnenStrom AG: <http://www.SonnenStromAG.de/>

4-5-04 Germany, Solar Electric Plant at CREATON AG

A 583-kW installation financed by private investors through a solar fund was inaugurated at CREATON AG in Ichenhausen-Autenried in Germany, representing one of the largest solar plants installed on a roof in western Bavaria. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUPR150.htm>

4-5-04 Germany, SolarWorld AG Sales

SolarWorld AG grew Group sales in FY 2002 by 32.6% over the prior year. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEU119.htm>

SolarWorld: http://www.solarworld.de/englisch/engl_frame.htm

4-5-04 Kirbati, Solar Electric Systems

The European Union is funding a rural electrification program comprising 1700 solar home systems on the outer islands of the Pacific island state of Kirbati. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASPR112.htm>

4-5-04 Renewable Energy in India

Britain's Renewable Energy and Energy Efficiency Partnership agreed to help India in its efforts to add 10% of the 100,000-MW generation capacity being created by 2012 through renewable energy. Story at: <http://in.news.yahoo.com/040402/43/2ccvl.html>

4-5-04 India, Solar Panels from Bharat Heavy Electricals Ltd.

The Bank of India is negotiating with Bharat Heavy Electricals Ltd. for the supply of solar panels. BHEL has developed three prototypes for Bank of India and the bank will choose one of them and negotiate the price. Story through Solarbuzz at:

<http://sify.com/finance/equity/fullstory.php?id=13445107>

4-5-04 SolarSmart in Ireland

SolarSmart is a new project launched as part of SMART, Northern Ireland's Electricity's new program to support sustainable energy alternatives. Story at:

<http://www.nie.co.uk/media/newsstory.asp?idcode=656>

4-5-04 Field Testing of Inverter

Inverters Unlimited, Inc. will commercialize a new electric power inverter aimed at the solar energy market under a \$200K contract with the New York State Energy Research &

Development Authority. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPT70.htm>

Inverters Unlimited: <http://www.invertersunlimited.com/>

4-5-04 Xantrex Multi-Year Commitment

Xantrex Technology Inc., has received a CDN\$7.2M multi-year commitment from Industry Canada's Technology Partnerships Canada (TPC) program for part of the cost of development of advanced power electronics technology for sustainable energy systems. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNACO202.htm>

Xantrex: <http://www.xantrex.com/>

4-5-04 Green Power in Rhode Island

Rhode Island Governor Carcieri announced the state will make a purchase of renewable power for the State House in the form of renewable energy certificates to generate 100% of the electricity used at the State House for 5 years. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6429>

4-5-04 Idaho Renewables

Governor Dirk Kempthorne vetoed 6 bills last week, including proposals for tax breaks for renewable energy. Kempthorne said the \$6 million price tag is too much for a state still recovering from the recession of 2001. Story at:

<http://www.idahostatesman.com/news/story.asp?ID=64600>

4-5-04 U.S., Congressional Energy Hearings

House Energy & Commerce, FY 2005 Budget Priorities for DOE, held April 1, 2004. Download prepared testimony of Spencer Abraham at:

<http://energycommerce.house.gov/108/Hearings/04012004hearing1231/Abraham1921.htm> or
http://www.energy.gov/engine/content.do?PUBLIC_ID=15381&BT_CODE=PR_CONGRESST&TT_CODE=PRESSPEECH

Senate Energy & Natural Resources, oversight hearing to examine sustainable, low-emission, electricity generation, April 27, 2004.

4-5-04 U.S. Energy Bill

Environment & Energy Daily (subscription) reports that the Senate will attempt to attach a \$15 billion energy tax package to corporate tax legislation.

4-5-04 More on Solargenix in Chicago

Solargenix Energy has secured a contract for a high-capacity manufacturing facility for their solar thermal collectors. The company reached an agreement to complete a multi-million dollar procurement contract between the City of Chicago and its partners. The agreement provides the initial market for a solar thermal manufacturing facility in the city. More on the agreement and Solargenix developments at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6428>
Solargenix: <http://www.solaraccess.com/marketplace/compdetail?compid=1250>

4-5-04 Solar Thermal Systems

James & James Ltd has published "Solar Thermal Systems", by Dr. Felix A. Peuser, Karl-Heinz Remmers, and Martin Schnauss, which summarizes the theoretical and practical knowledge gained from over 20 years of research, implementation and operation of solar thermal installations. Information at SolarAccess:

<http://www.solaraccess.com/marketplace/catalog/showitem.jsp?itemid=51>

4-2-04 Universal Communication Systems, Inc. Chinese Agreement

Universal Communication Systems, Inc. announced that the company has signed a major joint venture agreement with the General Manager of JiangSu Yangtze Petrochemical Co. Limited of Shanghai, China. A new Chinese corporation named Shanghai Gaochen Energy Technology and Development Company Limited has been formed, and will initially market a range of AirWater machines and systems to the Chinese government and commercial markets. Also, for Universal's subsidiary Millennium Electric T.O.U. Limited's PV Solar Energy Panels and Systems, the companies will jointly develop the local market for Photo Voltaic Solar Panels and Systems, and the group anticipates eventually contracting to manufacture a range of Millennium's PV panels in China. Story at: http://biz.yahoo.com/prnews/040401/flth009_1.html
Universal Communication Systems: <http://www.ucsy.com/>
AirWater: <http://www.airwatercorp.com/>
Millennium: <http://www.millennium-electric-inc.com/>

4-2-04 Fronius in the U.S.

Fronius USA will organize its distribution network via sales partners, and 4 major PV distributors have become Fronius sales partners so far. More at:

http://www.fronius.com/news/view_article.php?id=61&templet=3&lng=e

4-2-04 ARISE-Dankoff Termination of Agreement

ARISE Technologies Corporation is announcing that the agreement to purchase all of the outstanding shares of Dankoff Solar Products, Inc. has been mutually terminated. Story at:

<http://www2.ccnmatthews.com/scripts/ccn-release.pl?current/0401057n.html>

4-2-04 Oregon Solar

Grant activities of the Energy Trust of Oregon can be found in the story at:

http://cnniw.yellowbrix.com/pages/cnniw/Story.nsp?story_id=49302458&ID=cnniw&scategory=Energy%3AAlternative&. More than 100 new solar energy systems have been installed in homes and businesses in the state in the past year.

4-2-04 Support for Renewable Energy (Platts Inside Energy, subscription)

Senators Larry Craig and Mike Crapo of Idaho released a letter to Senate appropriators asking them to ensure the Renewable Energy Systems and Energy Efficiency Program - which awards grants to farmers, ranchers and rural businesses for renewable energy projects - is fully funded at \$23 million in FY-05. See press release at: <http://crapo.senate.gov/>. Crapo, Craig and fourteen other Senators wrote, "This is an important initiative. It is the very first agricultural program to promote broad renewable energy and energy efficiency measures for the farm and rural business sectors. Clean energy development has become an alternate source of revenue for the farm sector and addresses many of our nation's current challenges, including job creation, economic development, ensuring a sustainable energy supply, and environmental quality improvements."

4-2-04 U.K. Renewables

For a copy of "Renewable Supply Chain Gap Analysis, and other U.K. renewables publications, see: http://www.dti.gov.uk/energy/renewables/renewables_uk/publications.shtml

4-2-04 U.S., Congressional Energy Hearings

Senate Energy & Natural Resources, oversight hearing to examine sustainable, low-emission, electricity generation, April 27, 2004.

4-2-04 Solar Tower Overview

US Solar Tower developer SolarMission Technologies, Inc., and Australian Solar Tower developer EnviroMission Limited had accepted an invitation from Stanford University's Graduate School of Business, Energy Club, to present an overview of the technology on 1 April 2004 in Palo Alto. Story at: http://biz.yahoo.com/prnews/040401/lnth006_1.html

4-1-04 GE Energy Acquisition of AstroPower

GE Energy announced it has completed its acquisition of substantially all of the U.S. business assets of AstroPower, Inc. Said John Rice, president and CEO of GE Energy, "Solar power has great potential, since solar cells can be utilized almost anywhere. It already is a cost-effective source of power in many remote, off-grid locations, and as system costs come down (over the next few years), we expect demand will increase for on-grid residential and commercial applications." More on the transition: http://biz.yahoo.com/bw/040331/315947_1.html

Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO200.htm> GE press and AstroPower fact sheet: <http://www.gepower.com/home/index.htm>

http://www.gepower.com/prod_serv/products/solar/en/index.htm

4-1-04 Hydrogen Generator

Hydrogenics Corporation announced that the National Research Council Canada would take delivery of a HyLYZER(TM) (HyLYZER™ is a trademark of the Hydrogenics Corporation) electrolyzer, which will use solar power to make hydrogen from water. Said Pierre Rivard, President and CEO of Hydrogenics, "This installation at NRC demonstrates perhaps the most important benefit of using hydrogen as an energy carrier. When we use a resource such as solar power to generate hydrogen as a fuel for fuel cell appliances and vehicles, we have a truly renewable, non-polluting energy system." Story at:

<http://www.newswire.ca/en/releases/archive/March2004/23/c3202.html>

Hydrogenics: <http://www.hydrogenics.com/>

Highlighted by ReFocus News-in-Brief: <http://www.re-focus.net/>

4-1-04 Cypress Semiconductor Manufacturing / SunPower (Harin Ullal)

Cypress Semiconductor is looking at India for setting up a manufacturing facility for its SunPower business. If a facility is set up in India, it would be the company's second unit in Asia. Story at: <http://www.siliconindia.com/shownewsdata.asp?newsno=23617&newscat=Technology>

4-1-04 Photovoltaic Venetian Blind

A Spanish university has developed the "Photovoltaic Venetian Blind" comprising several PV modules arranged to control sunlight entering the room, and producing electric power.

Information at: <http://www.irc->

[ire.lu/matching/completetec.cfm?BBS_ID=10343&COMPANY=21240](http://www.irc-ire.lu/matching/completetec.cfm?BBS_ID=10343&COMPANY=21240)

Highlighted at ReFocus News-in-Brief: <http://www.re-focus.net/>

4-1-04 U.K., Azure Solar with Nemex

Azure Solar has chosen Nemex to launch their UK business. Said Susie Roddick, Azure's marketing director, "The UK market is in very early stages but looks like it will be growing quite fast." Story at:

http://www.edie.net/gf.cfm?L=left_frame.html&R=http://www.edie.net/news/Archive/8236.cfm

4-1-04 Renewable Energy Handbook

The World Energy Council has published a new Handbook on Renewable Energy Projects that provides an overview of leading renewable energy resources, descriptions of different categories of renewable energy projects, and existing policies and drivers. Information at:

http://pei.pennwellnet.com/articles/article_display.cfm?Section=ONART&Category=INDUS&PUBLICATION_ID=6&ARTICLE_ID=201831

4-1-04 Power-Spar Solar Concentrator

Menova Engineering's Power-Spar(R) (Power-Spar® is a registered trademark of the Menova Engineering Inc.) is a high-efficiency solar concentrator that uses a patented system to focus the sun's energy creating heat, hot water, and electrical power. Story at:

<http://www.newswire.ca/en/releases/archive/March2004/23/c3150.html>

Highlighted at ReFocus News-in-Brief: <http://www.re-focus.net/>

4-1-04 U.S., Congressional Energy Hearings

House Energy & Commerce, FY 2005 budget priorities for the Department of Energy, April 1, 2004.

Senate Energy & Natural Resources, oversight hearing to examine sustainable, low-emission, electricity generation, April 27, 2004.

MARCH

3-31-04 Japan, Loan Rates for Solar Homes

Sumitomo Trust & Banking Co. will offer lower housing loan rates for buyers of houses from Sekisui Chemical Co. that have a solar energy generation system. Story through Solarbuzz at:

<http://www.solarbuzz.com/News/NewsPage.asp>
<http://home.kyodo.co.jp/all/display.jsp?an=20040330267>

3-31-04 India, Solar Water Pumping

Bharat Heavy Electricals has a contract for supply of 700 sets of solar-powered water pumping systems for the Punjab Energy Development Agency. Story at: <http://www.business-standard.com/updates/news.asp?story=8559>

3-31-04 Uganda, Solar Power for All by 2010

The government is linking up with finance institutions around the country to implement plans to spread solar power to Uganda's 230 counties by 2010. Story through Solarbuzz at:

<http://allafrica.com/stories/200403300354.html>

3-31-04 Solar-powered Global Flight

ESA's Technology Transfer Programme will supply state-of-the-art technologies to assist Bertrand Piccard's flight around the world in a single-pilot solar-powered aircraft. Story and photos at ESA News: http://www.esa.int/export/esaCP/SEMJ90FCASD_index_0.html

3-31-04 U.S., Congressional Energy Hearings

House Energy & Commerce, FY 2005 budget priorities for the Department of Energy, April 1, 2004.

Senate Energy & Natural Resources, oversight hearing to examine sustainable, low-emission, electricity generation, April 27, 2004.

3-31-04 Solargenix in Chicago

Solargenix Energy has opened a new manufacturing facility in Chicago. The city agreed to purchase \$5M worth of solar energy systems from Solargenix in the next 3 years to bring the company and jobs to Chicago. The new Solargenix operation has already begun manufacturing compound parabolic concentrators. Story at: <http://www.ascribe.org/cgi-bin/spew4th.pl?ascribeid=20040330.101934&time=10>

3-31-04 APS Solar Trough Plant (Kevin Eber)

For more on the APS solar trough power plant, see EERE Network News March 31, and the APS press release March 24 at:

<http://www.eere.energy.gov/news/archive.cfm/pubDate=%7Bd%20%272004%2D03%2D31%27%7D#6774>
http://www.aps.com/general_info/newsrelease/default.html?year=2004

3-30-04 Kyocera's New Domestic Power Generation Systems

Kyocera announced the release, in April 2004, of the newly developed residential solar power generation systems for 2004. More on Kyocera developments at:

http://www.japancorp.net/Article.Asp?Art_ID=6968
Kyocera: <http://global.kyocera.com/>

3-30-04 Germany, 1.4 MW Solar Project

A 9,000-module, 1.4-MW solar power plant has been connected to the grid in the Saarland region of Germany. Story at photo at SolarAccess:
<http://www.solaraccess.com/news/story?storyid=6398>

3-30-04 Glenn Hamer's Testimony (Colin Murchie)

The written testimony of Glenn Hamer, Executive Director of the U.S. Solar Energy Industries Association, before the House and Senate Energy & Water Appropriations subcommittees requesting research funding of \$100 million for PV (along with other requests) can be found at:
<http://www.seia.org/news/releases/release042604appropstestimony.asp>
Coverage at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO164.htm>

3-30-04 Arizona, Solar Tax Incentives

Arizona officials said the state must protect its position as an innovator in solar energy. Said Rep. Ken Clark, "We're in a race with other states at this point, which you haven't seen in the past." For coverage of recent activities, see News at the East Valley Tribune:
<http://www.aztrib.com/index.php?sty=19328>

3-30-04 U.S., Congressional Energy Hearings

House Energy & Commerce, FY 2005 budget priorities for the Department of Energy, April 1, 2004.

Senate Energy & Natural Resources, oversight hearing to examine sustainable, low-emission, electricity generation, April 27, 2004.

3-29-04 Germany, S.A.G. Solarstrom Solar Park

S.A.G. Solarstrom AG is planning to install 5 solar-power stations totaling 276 kW around Lauda Koenigshofen starting mid-2004. Prospective investors can take part with a minimum contribution of 2,000 euro. The project offers a net yield of 6.3% to investors. Information at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR148.htm>
S.A.G. Solarstrom: <http://www.solarstromag.net/>

3-29-04 Florida, JEA Renewables

To reach its goal of 7.5% of electricity generated from renewable resources by 2015, JEA is accepting bids from companies that specialize in providing renewable energy. More than 100 companies have requested the RFP so far. Story at:
http://www.jaxdailyrecord.com/showstory.php?Story_id=40572

3-29-04 Oregon, Solar PV Projects

Seven projects have been selected as recipients of Energy Trust of Oregon funding. For more on each of these projects, see Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR351.htm>
Energy Trust of Oregon: <http://www.energytrust.org/>

3-29-04 Texas, Solar Incentives

Janet's Solar Electric announced that in April 2004, Austin homes and businesses will have the opportunity to obtain rebates of up to \$5/Watt by installing solar energy systems. Austin Energy has committed to paying 80% of the total solar system, up to \$15K for residential customers, and \$100K for commercial customers. Story at SolarAccess:
<http://www.solaraccess.com/news/story?storyid=6386>
Janet's Solar Electric: <http://www.janetssolarelectric.com/>

3-29-04 California, RWE SCHOTT Solar in San Diego County (Bill Jeppesen)

RWE SCHOTT Solar Inc. announced that 4 County of San Diego facilities are now powered partly by the sun. Combined, the recently installed PV systems are expected to produce nearly 500,000 kWh per year. RSS installed 2 45-kW free-standing SunRoof(TM) (SunRoofTM is a trademark of RWE SCHOTT Solar, Inc.) FS PV systems at an operations center and a library. Also, a 100-kW system was installed at a county regional center in Chula Vista with another 100-kW system going in at the regional center in Vista. Press release. Also coverage and photos at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR352.htm>
RWE SCHOTT Solar: <http://www.rweschottsolar.com/>

3-29-04 California, Emerging Renewables Rebate Program

See the notice regarding eligibility to participate in the Emerging Renewables Rebate Program as an equipment seller. http://www.energy.ca.gov/renewables/notices/2004-03-26_erp_notice.html

3-29-04 Ohio, Airship Facility

Akron's Airdock may be converted to an airship producing facility with a new owner. City, county, and state officials will have an incentive package ready to help refurbish the Airdock if Lockheed Martin gets the go-ahead for the production of a prototype airship under a potential \$50-million contract from the Missile Defense Agency. The unpiloted airship wouldn't carry fuel, but would generate power using a PV covering. It would be controlled from the ground and would be capable of staying on station for at least 30 days. Story at: <http://www.ohio.com/mld/ohio/business/8281647.htm>

3-29-04 Scotland, Green Power Incentives

Green electricity projects will receive cash incentives for connecting renewables to the network. The program will help the government and the Scottish Executive in reaching their targets to increase renewable electricity generation by 2010 to 10 and 20 % of the total production, respectively. Story at: <http://business.scotsman.com/utilities.cfm?id=359202004>

3-29-04 Turkey, World Bank Renewable Energy Loan

The World Bank has approved a \$202.03 million Renewable Energy Loan for Turkey, the main objective being to increase privately owned and operated power generation from renewable sources. Story at: <http://www.menareport.com/story/TheNews.php3?sid=273611&lang=e&dir=mena>

3-29-04 U.S., Congressional Energy Hearings

House Energy & Commerce, FY 2005 budget priorities for the Department of Energy, April 1, 2004.

Senate Energy & Natural Resources, oversight hearing to examine sustainable, low-emission, electricity generation, April 27, 2004.

3-29-04 More on APS/Solar Trough

Additional coverage of the plans for the APS solar trough installation can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6380>
Info on Europe's solar thermal directions can be found at: <http://www.solaraccess.com/news/story?storyid=6383>

3-26-04 Review of Alliance's Shell Solar/ASiMI Projects (Tina Nickerson)

With help from the Northwest Energy Efficiency Alliance, Shell Solar has leveraged discoveries made at their Vancouver, Washington plant to effect market transformation within PV and

semiconductor manufacturing industries. Story at Alliance News:
http://www.nwalliance.org/newsletter/NL_V8_I1_f2_sharing.htm

3-26-04 Hungary, Solar Panel Manufacturing

SOL@MIO Kft will invest Ft46.3 billion (\$225 million) to set up a solar panel manufacturing facility and R&D center, with plans to manufacture at least 20 MW of solar panels by the end of the year. Story through Solarbuzz at:

http://www.budapestsun.com/full_story.asp?ArticleId=%7B7560EAF6481B40BAB824210086130AFF%7D&From=Business

3-26-04 Solar Cities (IREC)

A new report on "Solar Cities" gives information on a dozen Solar City initiatives in which local governments have made significant commitments to deploy solar energy systems on public facilities or in the community, and where municipal utilities add PV to their generation capacity and/or support projects in the community. Information at:

http://irecusa.org/articles/static/1/1080056751_1018302029.html

This and much more news at the Interstate Renewable Energy Council site at: <http://irecusa.org/>

3-26-04 U.S., Congressional Budget Resolutions and Hearings (Energy)

The House passed its \$820 billion FY 05 budget resolution, H.Con.Res. 393, and now will conference with the Senate, which passed its budget resolution earlier (S.Con.Res. 95) with \$824 billion in discretionary spending. The House budget resolution includes \$3.52 billion (down from FY 04 of \$3.59 billion), and the Senate's has \$3.71 billion, in the energy function. [Energy & Environment Daily, subscription].

House Energy & Commerce, FY 2005 budget priorities for the Department of Energy, April 1, 2004.

3-25-04 Multi-gap Solar Cell

Kin Man Yu and Wladek Walukiewicz of the Materials Sciences Division, working with colleagues from Berkeley Labs and others, are investigating a multi-gap material - a single semiconductor with multiple band gaps. Story at: <http://www.lbl.gov/Science-Articles/Archive/sb-MSD-multibandsolar-panels.html>

3-25-04 IXYS Solar Cell Arrays and Cards

IXYS Corporation announced the release of a new range of Solar Cell PV-Arrays ("Solar Arrays") and PV-Cards(TM) (PV-Cards™ is a trademark of IXYS Corporation) for charging various battery powered and handheld products such as mobile phones. According to the article, "With an efficiency of over 17%, these Solar PV arrays enable the ability to extend run time even in 'low light' conditions and increase battery run time and life in a small footprint...". Story at: http://biz.yahoo.com/bw/040324/245701_1.html IXYS:

3-25-04 New Grinding Machine for Silicon Wafers

A new grinding machine developed in Germany by the Fraunhofer-Institut für Produktionstechnologie in cooperation with the University of Konstanz endows the surfaces of silicon wafers with V-shaped grooves that enlarge the active surface of the cells, and allow less sunlight to be reflected. More at: <http://www.engineeringtalk.com/news/skf/skf237.html>
http://www.engineering-uk.co.uk/eng_news.taf?function=detail&record=188026&UserReference=3C2EAB015090542AC40C7FFA&start=1

3-25-04 PV Activities In Japan (Osamu Ikki)

Sanyo Electric will increase its annual production capacity of PV cells/modules to 133 MW from 63 MW. A new HIT PV cell/module production line will be completed in January 2005. Also, Sanyo plans to reinforce its overseas sales of PV modules, expanding annual sales to 40 MW in 2005 from 3-5 MW. This and much more news by subscription from Resources Total System Co., Ltd, Tokyo, email ikki@rts-pv.com, fax +81-3-3553-8954.

3-25-04 Universal Communication Systems in Israel

Universal Communication Systems Inc. subsidiary Millennium Electric TOU Limited reported that in a field test conducted by Derech Eretz Corporation, the Construction Joint Venture partner of the Government of Israel, Africa Israel Corporation, Canadian Joint Venture Corporation, and Dor Alon Energy Corp. for 1 November through 10 December 2003 and issued 22 February 2004, the company has received better than expected recommendations on their PV Solar Panels. The report concluded, "Solar Power Systems (Millennium's) for the TPR's substantially exceeds design specifications and continue to demonstrate excellent reliability for the past two years." Story at: http://biz.yahoo.com/bw/040324/245557_1.html
UCSY: <http://www.ucsy.com/>
Millennium Electric: <http://www.millennium-electric.com/>

3-25-04 California, Chula Vista Solar Electric System

A 38.6-kW solar electric system has been installed on the roof of the Police Department headquarters, using 244 Kyocera KC158G PV modules. The system was designed and installed by Independent Energy Solutions. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR349.htm>
Kyocera: http://www.kyocerasolar.com/news/news_detail.cfm?key=82

3-25-04 U.S. FY 2005 Energy Budget Hearings (subject to change)

House Science, Energy, FY 2005 DOE budget request for EE, Science, and others, March 24, 2004. Witnesses included David Garman, DOE Assistant Secretary for Energy Efficiency and Renewable Energy and James Glotfelty, Director, DOE Office of Electricity Transmission and Distribution.

Prepared Testimony, including David Garman's, can be found at: <http://www.house.gov/science/hearings/energy04/index.htm>

House Energy & Commerce, FY 2005 budget priorities for the Department of Energy, April 1, 2004.

3-25-04 Arizona, APS Solar Trough Power Plant

APS broke ground on Arizona's first commercial solar trough power plant, and the first such facility constructed in the U.S. since 1988. The APS Saguaro Solar Trough Generating Station will have a 1-MW generating capacity, and is expected to be online in April 2005. Said Peter Johnston, APS manager of Technology Development, "This project presents a unique opportunity to further expand our renewable energy portfolio. We are committed to developing clean renewable energy sources today that will fuel tomorrow's economy." Story at:

http://biz.yahoo.com/bw/040324/245347_1.html

Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR350.htm>

APS: <http://www.aps.com/home>

Press-Arizona-solar:

<http://www.azcentral.com/arizonarepublic/business/articles/0325solar25.html>

3-24-04 Hitachi's Large Panel of Dye Sensitizing Solar Cells

Hitachi has developed a prototype of a large panel of dye sensitizing solar cells, exhibiting them at "Nano Tech 2004" in mid-March. The company exhibited a unit of four panels about 10 cm on a side connected together, with a photoelectric conversion efficiency of 9.3% in the lab. Story at: <http://neasia.nikkeibp.com/wcs/leaf?CID=onair/asabt/news/297549>

3-24-04 Konarka Technologies in Solar Energy Consortium (Joe Romano)

Konarka technologies announced that its European subsidiaries, Konarka Austria and Konarka Technologies AG in Switzerland have been selected to participate in a consortium of leading European PV research agencies in which Konarka will provide a key role in testing, evaluation, and manufacturing of a new breed of low-cost PV cells. The consortium of 13 technology, academic and manufacturing partners from across Europe will collaborate on a 30-month project called Molecular Orientation, Low Band Gap and New Hybrid Device concepts for the Improvement of Flexible Organic Solar Cells (MOLYCELL). Said Daniel Patrick McGahn, executive Vice President and Chief Marketing Officer, Konarka, "The goal of the MOLYCELL project is to overcome crucial obstacles for large-scale production of plastic solar cells." Konarka: http://www.konarka.com/news_press_eu-collaboration.php

3-24-04 California, Alameda County 1-MW of Solar

The Alameda County Board of Supervisors voted to expand the County's deployment of solar electric power by 1.11 MW. With the addition, Alameda will soon lead the nation's counties in solar use, generating a total of 2.29 MW. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR347.htm>

3-24-04 APS Credit Program

The Environmental Portfolio Standard Credit Purchase Program offers customers the opportunity to sell the environmental credits associated with the energy generated by solar systems to APS. The EPS Credit Purchase 2004 fund has reserved \$341,690.84 out of a \$500,000 budget for PV systems less than 5 kW; \$104,565.50 of a \$500,000 budget for commercial PV systems greater than 5 kW; and \$23,800 of \$250,000 for solar water heating. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAGO162.htm>
APS Credit Program: http://www.aps.com/my_community/Solar/eps.html

3-24-04 New Jersey RPS

New Jersey finalized the nation's best renewable energy portfolio standard for solar power, calling for 90 MW of solar by 2008. Said Glenn Hamer, SEIA's Executive Director, "New Jersey is positioning itself to become the clean energy capital of the United States." Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6363>

3-24-04 SmartPower Partner with Rhode Island Renewable Fund

SmartPower announced a new partnership with the Rhode Island Renewable Energy Fund to promote clean energy. The Rhode Island Renewable Energy Fund (RIREF) is administered by the Rhode Island State Energy Office. Said Janice McClanaghan, Chief of Energy and Community Services for the Rhode Island State Energy Office, "At the RIREF, part of our mission is to educate customers about clean energy. As such, SmartPower's mission melds perfectly with what we're hoping to accomplish." Story at: http://biz.yahoo.com/bw/040324/245522_1.html
Clean Energy States Alliance: http://www.cleanenergystates.org/Funds/fund.php?fund_id=17

3-24-04 U.S. FY 2005 Energy Budget Hearings (subject to change)

House Science, Energy, FY 2005 DOE budget request for EE, Science, and others, March 24, 2004. Witnesses include David Garman, DOE Assistant Secretary for Energy Efficiency and

Renewable Energy and James Glotfelty, Director, DOE Office of Electricity Transmission and Distribution.

House Energy & Commerce, FY 2005 budget priorities for the Department of Energy, April 1, 2004.

3-23-04 Living Organism with Solar PV Chip

Japan's National Institute of Advanced Industrial Science and Technology announced that a joint research group has succeeded in developing the world's first bio photosensor. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6360>

3-23-04 XsunX Agreement

XsunX announced it has entered into an agreement with MVSystems, Inc. to produce a working model of its patented glazing process. Per this press, "Completion of this step in the commercialization process will bring the use of the Company's next generation technology closer to use in the mass production of environmentally friendly photovoltaic products in the glass, optical film and building industries." Press at:

http://www.primezone.com/pages/news_releases.mhtml?d=54600

MVSystems: <http://www.mvsystems.info/>

XsunX: <http://www.XsunX.com/>

3-23-04 Universal Communication Systems New Orders

Universal Communication Systems, Inc. subsidiary Millennium Electric TOU Limited announced the execution of a new agreement with Maass Regenerative Energien GmbH granting exclusivity for the German market for a range of Millennium Brand PV Solar Panels and related products. The agreement calls for Maass to purchase up to \$15 million in value of PV Solar Energy Panels for the German market in the year 2004. Story at:

http://biz.yahoo.com/prnews/040323/fitu005_1.html

3-23-04 Australia, Renewable Energy Center

An award of an AUD\$5.5 million Federal Government grant through the Australian Greenhouse Office will assist in establishing a new renewable energy center in Western Australia. The Research Institute for Sustainable Energy, RISE, will be located at Murdoch University in Perth. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6358>

3-23-04 Colorado Renewable Energy Conference

The Colorado Renewable Energy Conference, "Renewable Energy: It Makes Sense" is 25-27 June at the University of Denver. Timothy Wirth, President of the United Nations Foundation and Better World Foundation is the keynote speaker. [CRES Electronic Newsletter].

Information & Registration: <http://cres-energy.org/conference/>

CRES: <http://cres-energy.org/index.html>

3-23-04 U.S. FY 2005 Energy Budget Hearings (subject to change)

House Science, Energy, FY 2005 DOE budget request for EE, Science, and others, March 24, 2004. Witnesses include David Garman, DOE Assistant Secretary for Energy Efficiency and Renewable Energy and James Glotfelty, Director, DOE Office of Electricity Transmission and Distribution.

House Energy & Commerce, FY 2005 budget priorities for the Department of Energy, April 1, 2004.

3-22-04 "Solar Wall" Integrates PV

A Welsh technology center has integrated the SolarMount(TM) (SolarMount™ System is a trademark of the UniRac Inc.) System into an 11,000-square-foot "Solar Wall" which generates 85 kW at peak hours from 2,400 Shell Solar CIS thin-film modules. The array curves from the roofline to the ground forming the southern façade of the building. Story and photo at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6342>

3-22-04 SolFest Southwest

SolFest Southwest takes place 17-18 April 2004 in Scottsdale, Arizona. For activities, speakers, workshops, exhibits, registration and other key information, see:

<http://solfestsouthwest.org/2004/index.htm>

Regarding Kyocera's sponsorship, see:

http://www.kyocerasolar.com/news/news_detail.cfm?key=78

Sponsors: http://solfestsouthwest.org/2004/more_info_1.htm#sponsor

3-22-04 North American Energy Summit

See the Web site for information on this Summit, 14-16 April, Albuquerque, New Mexico - agenda, registration, expo, breakout sessions, etc.

<http://www.westgov.org/wga/initiatives/energy/summit/index.htm> [highlighted in the SEIA Newsletter]

3-22-04 "Turning on Renewable Energy"

The 3rd in a 3-part series of adaptations from Lester R. Brown's book "Plan B: Rescuing a Planet Under Stress and a Civilization in Trouble", with a section on "Solar Energy Rises" [highlighted at SolarAccess <http://www.solaraccess.com/news/index.jsp>] can be found at: <http://www.motherearthnews.com/index.php?page=article&id=2044>

3-22-04 Heavy Metals Products Self-Remediate

In a news conference March 25, Solucorp Industries will announce and demonstrate a new environmental technology that can make batteries, fluorescent lights, circuit boards, solar cells, and other metal-containing items self-remediating. 'Integrated Fixation Systems' is designed to provide a system that eliminates contamination from heavy metals once the products are disposed of. Announcement at: http://biz.yahoo.com/bw/040322/225835_1.html

3-22-04 More on the Moscone Center PV Dedication

More on the dedication of the Moscone Center PV system installed by PowerLight Corporation, with photos, can be found at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6345>

3-22-04 U.S. FY 2005 Energy Budget Hearings (subject to change)

House Science, Energy, FY 2005 DOE budget request for EE, Science, and others, March 24, 2004. Witnesses include David Garman, DOE Assistant Secretary for Energy Efficiency and Renewable Energy and James Glotfelty, Director, DOE Office of Electricity Transmission and Distribution.

House Energy & Commerce, FY 2005 budget priorities for the Department of Energy, April 1, 2004.

3-19-04 California, More on Moscone Center PV System Dedication

Mayor Gavin Newsom and others dedicated the new 675 kW solar electric system recently completed by PowerLight Corporation at the Moscone Center in San Francisco. Story at

Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR346.htm>
PowerLight Corporation: <http://www.powerlight.com/>

3-19-04 WorldWater Corp. Agreement

WorldWater Corp. announced it has signed a Memorandum of Understanding with Counterpart International, an NGO, to collaborate on agricultural irrigation development and water management projects. Story at:

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040319005036&newsLang=en

WorldWater: <http://www.worldwater.com/>

3-19-04 U.S. Energy Policy and Legislation on Renewables

A panel yesterday discussed renewable energy provisions of the energy bill stalled in Congress, and some experts said the measures should be passed as stand-alone legislation to increase energy security. Story at:

<http://framehosting.dowjonesnews.com/sample/samplestory.asp?StoryID=2004031823530004&Take=1>

3-19-04 U.S. FY 2005 Energy Budget Hearings (subject to change)

House Energy & Commerce, FY 2005 Budget Priorities for the Department of Energy, 4-1-04.

3-18-04 IBM's Low-cost Process to Make Semiconductors

A team of researchers at IBM's T.J. Watson Research Center recently developed a simple, low-cost process to make extraordinarily thin films of semiconducting materials that allows electrical charges to move through them about 10 times more easily than reported for other similar approaches. Said David Mitzi, the IBM Research team leader, "These types of easily processed semiconducting films could eventually be used to make circuitry for very-low-cost or flexible displays, high-performance smart cards, sensors and solar cells or for flexible electronics coated onto a wide variety of molded or plastic shapes." Story at:

http://biz.yahoo.com/bw/040317/175593_1.html

3-18-04 Universal Communication Systems Inc. Agreement with Australian Group

Universal Communication Systems Inc. entities recently executed an agreement with an Australian industrial group. Both AirWater Corporation and Millennium Electric TOU Limited have signed a joint "Technology Transfer Agreement" with a newly formed local company set up specifically to manufacture AirWater Machines and PV Solar Energy Panels and related systems. Story at: http://biz.yahoo.com/bw/040318/175996_1.html

Universal Communication Systems: <http://www.ucsy.com/>

AirWater: <http://www.airwatercorp.com/>

Millennium Electric: <http://www.millennium-electric.com/>

AirWater, Australia: <http://www.airwater.com.au/home.htm>

3-18-04 Philippines, More on SunPower's Solar Cell Factory

Yesterday, SunPower Corporation announced the inauguration of its first high-volume manufacturing plant. SunPower Philippines Manufacturing Limited near Manila will initially produce 25 MW annually of high-efficiency silicon solar cells and is designed to allow future capacity expansion to more than 100 MW. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASMA34.htm>

and http://biz.yahoo.com/bw/040317/175955_1.html

SunPower: <http://www.sunpowercorp.com/>

Philippine STAR: <http://www.philstar.com/philstar/News200403180716.htm>

3-18-04 Northern Power Systems MicroGrid Grant

Senator James Jeffords is the featured speaker at a press event to recognize DOE funding for development of Northern Power Systems proprietary MicroGrid(R) (MicroGrid® is a registered trademark of the Northern Power Systems) power network and other renewable energy initiatives in Vermont. Northern's MicroGrid(R) combines multiple devices, including PV, into the distribution network. Event highlights at: http://biz.yahoo.com/bw/040317/175819_1.html

Some history:

<http://uaelp.pennnet.printthis.clickability.com/pt/cpt?action=cpt&expire=&urlID=7437425&fb=Y&partnerID=1412>

http://www.northernpower.com/pdf/pr_microgrid.pdf

3-18-04 Moscone Center PV System Dedication (Susan DeVico)

Today, San Francisco Mayor Gavin Newsom will dedicate the Moscone Center's new 675 kW solar electric installation by PowerLight Corporation, the largest city-owned solar installation in the nation. Press release today. PowerLight Corporation: <http://www.powerlight.com/>

3-18-04 U.K., £2M Grant Awards for Solar Energy

UK Energy Minister Stephen Timms announced £2M grant awards for investment in solar energy projects throughout the UK. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUGO30.htm>

3-18-04 Coverage of Lockheed's High-Altitude Airship/PV

This coverage of the thin-film contributions has some interesting links:

<http://slashdot.org/article.pl?sid=04/03/17/1849241>

3-18-04 Additional Coverage of GE's Solar Interests

Said Anil Duggal, head of GE's light-energy conversion research program, "If you say you are doing renewables, and you are not doing photovoltaics, you are missing a huge part of it." Story at: <http://www.taipetimes.com/News/bizfocus/archives/2004/03/14/2003102455>

3-18-04 U.S. FY 2005 Energy Appropriations

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

Prepared testimony of Robert Card:

<http://appropriations.house.gov/index.cfm?Fuseaction=Hearings.Testimony&HearingID=288&WitnessID=593>

House Energy & Commerce, FY 2005 Budget Priorities for the Department of Energy, 4-1-04.

3-17-04 PV and Wind Turbine in DG Market

According to an ABI Research report, "Distributed Generation: Growth Projections for Fuel Cells, Photovoltaics, Wind Turbines, Reciprocating Engines, and Small Gas Turbines", wind turbine and PV companies experienced extraordinary sales and are expected to translate these sales into solid market share gains on the competition. Story at:

<http://biz.yahoo.com/iw/040316/064430.html>

ABI Research: <http://www.abiresearch.com/>

3-17-04 More on PowerLight Installations

More coverage of PowerLight installations, including Mayor Gavin Newsome at the San Francisco Moscone Center system dedication, can be found at:

http://eastbay.bizjournals.com/eastbay/stories/2004/03/15/daily16.html?jst=b_in_hl

3-17-04 Philippines, Solar Wafer Manufacturing

The \$300M solar wafer manufacturing plant inside the Laguna Technopark is being inaugurated. Said Energy Secretary Vincent Perez Jr., "The \$300-million facility, the first of its kind in Asia, brings the Philippines at par with other countries because this plant will produce the world's highest-performance silicon solar cells." Initially some 8 million wafers will be produced annually, with production expected to increase to 48 million wafers by 2007, or 150 MW. Story at: <http://www.abs-cbnnews.com/NewsStory.aspx?section=Business&OID=47155>

3-17-04 Uni-Solar Ovonic Solar Cells to Lockheed Martin

United Solar Ovonic Corp. announced it has been awarded a contract by Lockheed Martin to develop and deliver solar cells on polymer substrates to be used by Lockheed Martin in Phase 2 of the High Altitude Airship program. Uni-Solar is working with aerospace companies to develop space and stratospheric PV products under contracts from the U.S. Air Force Research Laboratory. Story at: http://biz.yahoo.com/prnews/040317/dew012_1.html
Uni-Solar: <http://www.uni-solar.com/>

3-17-04 Spire Corporation 35th Anniversary

Today, Spire Corporation celebrates the 35th Anniversary of its founding. Said Roger G. Little, President and CEO, "The year 2004 marks Spire's 35th anniversary, a tribute to our perseverance and adaptability to market shifts and technology change. While the path of technology commercialization has rarely been smooth, Spire has accomplished much. For example, our innovations in developing semi-automated solar module assembly equipment have changed the business model of the worldwide photovoltaic industry to one of distributed manufacturing. We have installed 150 solar factories in 42 countries enabling the development of what is estimated to be a \$4 billion industry worldwide....". More regarding Spire's accomplishments highlighted at: http://biz.yahoo.com/bw/040317/175650_1.html

3-17-04 Hitachi Solar Cells

Referenced, but have not found the story on public sites: Hitachi Unveils Dye-Sensitized Solar Cell For Everyday Use (Subscription, Nikkei Interactive, March 17 04:34)

3-17-04 Universal Communication Systems / Millennium Electric PV Order

Universal Communication Systems Inc. subsidiary Millennium Electric TOU announced a new export purchase order of US \$680,000 for their Photo Voltaic Solar Panels and Products to Maass Regenerative Energien GmbH. Story at: http://biz.yahoo.com/prnews/040317/flw013_1.html
Universal Communication Systems Inc.: <http://www.ucsy.com/>
Millennium Electric TOU: <http://www.millennium-electric-inc.com/>

3-17-04 India, Solar Electrification for Lakshadweep

By the middle of next year, grid-interactive PV power plants put up by Bharat Heavy Electricals Ltd will contribute over 1 MW or 20% of the island group of Lakshadweep's total power needs. Under an Rs 21.22-crore project supported by the Ministry of Non-conventional Energy Sources, BHEL is putting a solar plant on each of the 11 inhabited islands. Story through Solarbuzz at: <http://sify.com/finance/equity/fullstory.php?id=13431412>

3-17-04 Renewable Generation Information System

The Western Governor's Association and the California Energy Commission are working together to develop a Western Renewable Generation Information System (Western states). Highlighted at ReFocus, News-in-Brief, 3-10-04: <http://www.re-focus.net/>
Web link: <http://www.westgov.org/wieb/wregis/>

3-17-04 U.S. FY 2005 Energy Appropriations

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

3-16-04 Isofoton <http://www.isofoon.com/lazo.htm>

Hoy todos nos sentimos víctimas. Hoy es un día de dolor para todos. Desde ISOFOTON, queremos expresar a todos los familiares y amigos de las víctimas de los terribles atentados de ayer 11 de marzo, nuestra solidaridad. Desde nuestro compromiso con una sociedad democrática y en paz.

3-16-04 Kyocera Solar Power Generation System / Multicrystal Silicon Solar Module

Kyocera Corporation announced a new standard-type solar power generation system, Solar Power Plant III, to be released in April. The system comprises solar modules and a power conditioner. Kyocera has developed a new module with 13.98% conversion efficiency allowing increased output while maintaining the same outside dimensions as that of the conventional Kyocera model. Kyocera Press: <http://global.kyocera.com/news/2004/0303.html>

3-16-04 Extended Product Warranty for Thin Film Module

Mitsubishi Heavy Industries now offers a 5-year product guarantee, going beyond the 2-year statutory requirement, for the MA100 thin-film module. In addition to the 20-year performance guarantee of 80% of the minimum output, MHI is now guaranteeing 90% output of minimum nominal performance over the first 10 years. Phonix SonnenStrom AG has promoted the MA100 module since May 2003, and "is pleased to offer this major bonus to its customers". Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPT17.htm>
Mitsubishi: http://www.mhi.co.jp/power/e_a-si/index.html
Phonix SonnenStrom AG: <http://www.sonnenstromag.de/index.html>

3-16-04 World Renewable Energy Congress VIII and Expo (Robert J. Noun, Chairman, U.S. Organizing Committee)

The 8th Congress and Expo will be held in Denver, Colorado 28 August through 3 September 2004. The Congress continues to gain significant interest from around the world, with over 800 abstracts from 60 countries received to date. The Honorable Herman Scheer, member of the Bundestag and President of Eurosolar, will speak at the opening ceremony. More on the major speakers and special events planned at: <http://www.nrel.gov/wrec/>

3-16-04 Dedicating YourVitamins' PV System (Susan DeVico)

Nevada's Senator Harry Reid and others joined with YourVitamins Inc. to dedicate Nevada's largest solar electric system at 215 kWp, designed and installed by PowerLight Corporation. [PowerLight Press Release] Solarbuzz story: <http://www.solarbuzz.com/News/NewsNAPR345.htm>
PowerLight: <http://www.powerlight.com/company/press-releases/index.shtml>

3-16-04 U.S., Energy Information Agency Call for Comments (Kevin Eber)

The EIA is soliciting comments on the proposed revision and 3-year extension to the FORM EIA-63A "Annual Solar Thermal collector Manufacturers Survey" and EIA-63B "Annual Photovoltaic Module/Cell Manufacturers Survey". Comments must be filed by May 10, 2004. For more information, see pdf at: <http://www.eia.doe.gov/oss/EIA-63A-B-March9-2004.pdf>

3-16-04 Fronius Inverters

Fronius USA Solar Electronics Division announced it received eligibility listing for 2 state-level incentive programs. The FRONIUS IG 3000, IG 2000, and IG 2500-LV grid-tied inverters have qualified for the California Energy Commission eligibility listing for the Emerging Renewables Program Rebates as well as the New York State Energy Research and Development Authority's

PV funding programs. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPT67.htm>
Fronius: <http://www.fronius.com/worldwide/usa.solarelectronics/about/index.htm>

3-16-04 SolarOne Products (Jackie Abramian)

SolarOne announced the availability of its new Harvest-Store(tm) Data Logger, particularly for off-grid and educational solar electric applications. It monitors basic energy flows within a system, and serves as a low-cost tool for troubleshooting, sizing and optimization, and is useful for solar energy experiments and teaching. SolarOne also has the logger as an add-on for the Harvester(tm) solar electric generators. [SolarOne Press Release] SolarOne: <http://www.solarone.net/> and <http://www.solarone.net/advancespecs/>

3-16-04 More on U.K. Solar Sound Barrier

More information on the 11 kWp, 50-m solar sound barrier, with photo, can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6297>

3-16-04 Training for Rural Electrification with PV

In an EU-funded project that just ended, Fraunhofer ISE cooperated with partners to develop a training package for companies and organizations that deal with stand-alone power supplies. See the pdf, and other news under Press Releases at: <http://www.ise.fraunhofer.de/english/press/index.html>

3-16-04 More on Terry Jester's Award, Shell Solar

See Shell Solar Press at:

http://www.shell.com/home/Framework?siteId=shellsolar&FC2=/shellsolar/html/iwgen/news_and_library/press_releases/2004/zzz_lhn.html&FC3=shellsolar/html/iwgen/news_and_library/press_releases/2004/jester_1603.html

3-16-04 U.S., Energy Appropriations FY 2005 - Hearings

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

3-15-04 AstroPower Asset Sale

AstroPower, Inc. announced that the US Bankruptcy Court presiding over AstroPower's Chapter 11 proceeding approved the sale of most of AstroPower Inc.'s US business assets to General Electric Company's designee Heritage Power LLC. The sale price was \$15 million cash plus assumption of certain liabilities. Story at: http://biz.yahoo.com/bw/040312/125487_1.html

AstroPower: <http://www.astropower.com/>

See New York Times article at:

<http://www.nytimes.com/2004/03/13/technology/13solar.html?ex=1079845200&en=617659afee9315a9&ei=5006&partner=ALTAVISTA> or
<http://www.heraldtribune.com/apps/pbcs.dll/article?AID=/20040313/ZNYT01/403130678/1200/BUSINESS>

More information at: (may need to cut & paste link)

<http://www.delawareonline.com/newsjournal/local/2004/03/13gespurchaseofas.html>

3-15-04 On the GE Research Environment:

http://www.boston.com/business/technology/articles/2004/03/15/ges_sandbox_for_scientists/

3-15-04 Germany, Largest Solar PV Plant in the World

Secretary of Environment for Saarland, Stefan Moersdorf, announced the largest PV plant in the world at 7.4 MW, which will be ground-mounted at the former Gottelborn mine site in Saarland. City Solar AG will be the installer of some 50,000 solar modules over an area of 165,000 square

meters. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR146.htm>
City Solar AG: <http://www.city-solar-ag.de/>

3-15-04 California Solar Forum

A California Solar Center - Solar Forum is scheduled for 5 May in San Francisco. Agenda: "A celebration of the 50th anniversary of the Invention of the Silicon Solar cell, Information on proposed California solar and renewable energy legislation for 2004, program updates (CEC, SelfGen, other California utility programs), solar schools, who owns green tags?, some cool new options for realtime performance monitoring, turnkey - no money down - shared savings contracts are here, Is it time for Performance-based incentives in California?, policy options for solar in the new home construction market Plus an opportunity to network with others involved in the solar industry."

Registration and information at: http://www.californiasolarcenter.org/reg_forum-may2004.html
Solar Center: <http://www.californiasolarcenter.org/index.html>

3-15-04 More on Rodney Strong Vineyards PV System - Largest in the World of Wine

The largest solar-powered system in the wine world comprises 4,032 panels at the 100,000 square foot barrelhouse. Story at: http://biz.yahoo.com/prnews/040315/nvfns01_1.html

3-15-04 Whistler Investments, Inc. Update

WHSL has entered into an agreement to acquire rights to various technologies including worldwide rights to an advanced Lithium/Solar Power System technology for application to residential and commercial properties. The company is restructuring to put in place 3 divisions; the Solium Power Corp will hold the rights for the advanced Lithium/Solar Power System. More on the company developments, including The Lithium Solar House at:

<http://biz.yahoo.com/pz/040315/54172.html>

3-15-04 WorldWater Chairman's Strategic Thinking

Quentin T. Kelly, Chairman and CEO of WorldWater Corp., has contributed a section to the book "Inside the Minds: The Green Company", to be published in May 2004. The book features CEOs on the benefits and economic rewards of operating an environmentally conscious company. Story at: http://biz.yahoo.com/bw/040315/155153_1.html

3-15-04 Borrego Solar

Borrego Solar completed installation of a 37-kW system for the Hacienda Mobile Home Park of Barstow, in the Mojave Desert region of southern California. Story at Solar Access:

<http://www.solaraccess.com/news/story?storyid=6286>

3-15-04 Germany, World Renewable Energy Forum

The World Council for Renewable Energy is organizing the 2nd world renewable energy forum entitled "Renewing Civilization by Renewable Energy" to take place in Bonn, Germany 29-31-May 2004. More information at: <http://www.world-renewable-energy-forum.org/2004/index.htm>

3-15-04 Terry Jester, Shell Solar Award (Tina Nickerson)

Terry Jester, senior director of engineering and operations for Shell Solar, was recently honored with the Outstanding Engineering Achievement Merit Award from the San Fernando Valley Engineers Council. Jester has more than 24 years in the solar industry and is responsible for manufacturing operations, technical development, and product development for Shell Solar in the U.S. [Shell Solar Press Release]

3-15-04 Canadian Renewable Energies Directory

Surplus copies of the 2004 version of the Canadian Renewable Energies Directory are available for purchase at: <http://renewables.ca/bg-sale.html>

3-15-04 U.S., Energy Appropriations FY 2005 - Hearings

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

3-12-04 Arizona Solar Legislation

Legislation for a commercial and residential 25% solar tax credit - HB2613 - (with a property tax exemption) in Arizona has passed out of committee in the House and now goes to the floor for a vote. Another renewable energy bill - HB2526, Solar electricity - is also ready to go to a floor vote. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6285>

3-12-04 ISET Enhanced Award

In February 2004, ISET was awarded an enhancement to the existing Air Force SBIR contract (High Efficiency Non-Vacuum Processed Thin-Film Photovoltaics), which nearly doubles the existing funding. <http://www.isetinc.com/news.html>

3-12-04 IREC News

For news on a range of topics from interconnection standards to state renewables activities, see the Interstate Renewable Energy Council Newsletters at: <http://irecusa.org/>

3-12-04 Solar Cells and Panels for Space

Additional coverage of Boeing's selection of EMCORE to provide advanced triple-junction high-efficiency solar cells and panels for the latest model 702 satellite can be found at SpaceDaily:

<http://www.spacedaily.com/news/solarcell-04d.html>

EMCORE: <http://www.emcore.com/>

Coverage of the multi-million euro contract for supply of solar array panels between Mitsubishi Electric Corporation and Alcatel Space is at: <http://www.spacedaily.com/news/solarcell-04c.html>
Mitsubishi: <http://global.mitsubishielectric.com/>

3-12-04 U.S. FY 2005 Budget Resolutions (Energy & Environment Daily, subscription)

This morning the Senate passed an \$821 billion FY 2005 budget resolution, which sets spending limits for appropriations. It allows \$33 billion more for discretionary funding than in FY 2004. An amendment passed that reinstates the energy savings performance contract program. The House is also working on a budget resolution, and Republicans have proposed \$819 billion. A compromise budget resolution is yet to come, followed by an analysis of amendments and discretionary spending limits for individual agencies. [S.Con.Res.95]

3-12-04 U.S., Energy Appropriations FY 2005 - Hearings (subject to change)

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

3-11-04 Q-Cells New 8" Cell

Q-Cells AG is introducing its new product innovation, the 8" high-performance PV cell made of multi crystalline silicon. It will be launched in the first quarter of 2005. Press at: http://www.q-cells.com/2_eng.php

3-11-04 Sharp Solar Advertising Campaign

Sharp Electronics Corporation will launch an advertising campaign to generate interest in solar energy in California, beginning this month. The ads will target homeowners who are seeking ways to reduce energy consumption while supporting clean air and renewable energies. More

on the campaign at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO192.htm> and SolarAccess: <http://www.solaraccess.com/news/story?storyid=6268>
Sharp: <http://www.sharpusa.com/solar/SolarLanding/0,2286,,00.html?>

3-11-04 Kyocera's SAMURAI BBS Announcement

Ten years ago, Kyocera Corporation released the first domestic solar power generation system in Japan. To commemorate the 10th anniversary, Kyocera Solar Energy Division is offering SAMURAI BBS, a domestic solar power generation system with exclusive specifications, from March 11 to April 10 - limited to the first 100 buildings applicants. More at:

http://www.japancorp.net/Article.Asp?Art_ID=6788

Kyocera: <http://global.kyocera.com/news/2004/0302.html>

3-11-04 U.K., Solar Sound Barrier

The UK's first solar motorway sound barrier - on the M27 - is an 11 kWp, 50-m long system installed by solarcentury for the Highways Agency and will generate about 9,500 kWh of electricity each year. Said Dan Davies, director of engineering at solarcentury, "We are pleased to have worked with CORUS Building systems to develop the two installation systems. One uses standard modules and the other is based on unique "peel and stick" solar technology which is simply bonded to the aluminum sound barrier, both suited to a wide range of construction applications." Press at:

<http://www.solarcentury.co.uk/news/newsitem.jsp?newsid=375>

3-11-04 Xantrex Developments

Xantrex Technology Inc. has developed a 100 kW 3-phase utility interactive inverter for the European market. Says Andreas Vondung, Managing Director of Xantrex in Europe, "We are excited to use our extensive experience with megawatt PV installations to introduce a new product in Europe where the adoption rate of renewable energy systems is so high." Initial units of the GT100E have been produced at the Xantrex facility in Livermore, California. The company plans to transfer manufacturing to Europe in 2004. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUPT16.htm>

Xantrex: <http://www.xantrex.com/index.asp>

Xantrex Technology expects to raise \$67 million when it is listed on the TSE next month. This and other news from the Canadian Association for Renewable Energies, Bill Eggertson, at:

<http://www.renewables.ca/main/main.php>

3-11-04 American Solar Energy Society Board and Chair (Brad Collins)

Four new members for the ASES Board of Directors have been selected for a 3-year term. New Board members are Marion Barritt, Paul Notari, Don Osborn, and Blanche Sheinkopf. Tom Starrs, Vice President of Marketing and Sales for the Bonneville Environmental Foundation, is Chairman. And, Dave Renne was elected as one of 3 ASES representatives on the International Solar Energy Society Board. [Source: ASES Press Release]

3-11-04 U.S., Energy Appropriations FY 2005 - Hearings (subject to change)

House Appropriations, Energy & Water, DOE, 3-11-04

Spencer Abraham's Testimony:

<http://appropriations.house.gov/index.cfm?Fuseaction=Hearings.Testimony&HearingID=287&WitnessID=532>

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

3-10-04 First Solar Receives \$5 Million (Paula Vaughnn)

First Solar has received \$5 million of funding from the State of Ohio. Proceeds, in the form of a low-interest loan, will be applied to the expansion project underway to increase manufacturing capacity fourfold - from 6 MW in 2004 to 25 MW in 2005. First Solar has earmarked the loan proceeds to purchase machinery and equipment that will help the company achieve high-volume, low-cost manufacturing capabilities and improve production processes. Press release from First Solar: <http://www.firstsolar.com/index.html>

3-10-04 More on New Mexico's Clean Energy Legislation

Governor Bill Richardson signed legislation making it mandatory for utilities to source a certain percent of their energy from renewable energy sources. The Renewable Portfolio Standard requires the state's major utilities to derive 10% of the electricity they sell from renewable sources by 2011. Details at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6267>

3-10-04 Strategies Unlimited Solar Flare on PV (Paula Mints)

In its Solar Flare Newsletter, due out at the end of March, Strategies Unlimited announces shipments of 684.61-MWp, a 35% increase in shipments over 2002's total of 507.65-MWp. Continued strong growth is likely for 2004, due to programs in Germany, Japan, the United States, and other countries around the world. Strategies will be publishing its demand side report on Global PV markets in April, and a comprehensive report on manufacturer shipments for 2003, in May. Strategies Unlimited: <http://www.strategies-u.com>

3-10-04 Solarbuzz Reports World Solar PV Energy Market Growth

World solar PV market installations soared to 574 MW in 2003 representing growth of 34% over 2002 according to the annual PV market report issued today by Solarbuzz Inc. The 140-page Marketbuzz 2004 report analyzes key trends in the PV industry in 2003, includes the annual survey of solar energy installers, and a detailed review of price movements in major markets, concluding with implications of the 2004 solar cell supply / demand forecast. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO191.htm>
Marketbuzz 2004: <http://www.solarbuzz.com/Marketbuzz2004-intro.htm>

3-10-04 SunViewer.net Renewable Energy Database (Matt Arner)

Heliotronics, Inc. has launched SunViewer.net(tm), a renewable energy database that takes data uploaded from renewable energy sites around the country and allows users to access it from the Internet. In addition to viewing data from individual sites, the database is able to aggregate multiple systems into one output. The system can store power and energy data as well as meteorological data from any site that has an Internet connection and a compatible data acquisition system. For more information, visit <http://www.Heliotronics.com> or contact Matt Arner, Heliotronics Business Development Manager at marnar@heliotronics.com.
http://www.Heliotronics.com/products/product_SunViewerNet.html

3-10-04 POWER-GEN Renewable Energy

The first POWER-GEN Renewable Energy Event has been hailed as highly successful, attracting more than 900 attendees and 69 exhibitors for the 3-day conference and exhibition. POWER-GEN Renewable Energy 2005 is scheduled for 1-3 March 2005 in Las Vegas, Nevada. Story at: http://biz.yahoo.com/prnews/040309/datu031_1.html

3-10-04 Australian Business Council for Sustainable Energy Conference (Bob McConnell)

The BCSE National Conference - Sustainable Energy 2004 - will be held at the Sydney Convention Centre as part of Enviro 04, 29-31 March 2004, with site visits on 1 April. The

program includes "Developments in Solar PV and Thermal Applications and Technologies." For a program and registration, see: <http://www.bcse.org.au/>

3-10-04 Senator Bingaman on the U.S. Energy Bill

With the comprehensive Energy Bill stalled, Senator Bingaman makes a case for looking to a smaller set of key, broadly supported, and effective energy provisions and to enact them either individually or in small packages. Press at:

http://bingaman.senate.gov/Press_Files/Press_by_Date/Press_Release/press_release_0.html

3-10-04 U.S., Energy Appropriations FY 2005 - Hearings (subject to change)

House Appropriations, Energy & Water, DOE, 3-11-04

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

3-9-04 Arrowhead Research Corporation Nanotech Subsidiary

Arrowhead Research Corporation announced it has entered into an agreement to form a new majority-owned subsidiary to commercialize an ultra-thin crystal film (nanofilm) technology developed by Dr. Harry A. Atwater and others at the California Institute of Technology. The technology enables fabrication of high-quality single crystal semiconductor and oxide, nanometer thickness films as surface layers transferred onto low-cost substrates. Information at:

http://biz.yahoo.com/prnews/040309/nytu097_1.html

3-9-04 Sharp Solar Products

Sharp Electronics Corporation announced a range of installations using solar modules manufactured at Sharp's U.S. solar panel manufacturing facility in Memphis, Tennessee. The plant opened 5 months ago, and current annual capacity is 20 MW. Notable Sharp projects underway or planned are highlighted in this article at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAMA36.htm>

Sharp: <http://www.sharpusa.com/solar/SolarLanding/0,2286,,00.html?>

3-9-04 EMCORE Triple-Junction Solar Cells

EMCORE announced it has been selected by Boeing to provide advanced triple-junction high-efficiency solar cells and panels for the latest model 702 satellite which Boeing is manufacturing. Story at:

<http://www.stockhouse.com/news/news.asp?tick=EMKR&newsid=2188889>

3-9-04 California, More on Rodney Strong Vineyards' Solar Electric System

This California winery now has a 766 kW PV electric system provided and installed by PowerLight. Said Dan Shugar of PowerLight Corporation, "We're delighted that Rodney Strong is setting such a wonderful example for the wine industry by deploying reliable, environmentally-responsible and cost-effective solar power." Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6254>

PowerLight: <http://www.solaraccess.com/marketplace/compdetail?compid=531>

PG&E Self-Generation Incentive Program: <http://www.pge.com/selfgen/>

3-9-04 More on New York's Solaire, Building Integrated PV System (Jim Hoelscher)

New York City's Solaire, a 30-story \$100 million building, features 33 kW of PV systems, energy efficiency lighting, and energy-saving appliances. Says Anthony Pereira, president of Altpower, Inc., "It's a high-profile building in the solar world. Solar is not the cheapest product per square foot, so if you're going to put it on a building, why not have it work as your building's façade to bring down the cost." Story and photo at:

http://ecmweb.com/ar/electric_photovoltaic_systems/index.htm

3-9-04 Clean-Energy Market

According to a new report released by Clean Edge, Inc., solar, wind, and fuel cells are poised to grow from a \$12.9 billion industry today to \$92 billion by 2013. "Clean Energy Trends 2004" examines factors that are influencing clean-energy markets and tracks 5 key trends. The report also profiles companies that are spearheading each of the 5 trends, including PowerLight Corp. Story at: http://biz.yahoo.com/bw/040309/95121_1.html

Report at:

<http://www.centreforenergy.com/outsideNav.asp?href=http%3A%2F%2Fwww%2Ecleanedge%2Ecom&template=3,3>

3-9-04 Contacts Process for Si Solar Cells (Example of News in III-Vs Review)

Scientists at the Fraunhofer Institute for Solar Energy Systems ISE, Freiburg, have developed an inexpensive process allowing highly efficient solar cells to be produced from extremely thin silicon wafers. Story at: http://www.three-fives.com/WZ/III-Vs/competitive_news/news/000081/show/

3-9-04 Minnesota Renewables RFP

Split Rock Energy in Minnesota issued a request for proposals for future power supply resources. The RFP seeks both renewable and conventional resources. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6250>

RFP Information:

http://www.greatriverenergy.com/press/news/030304rfp_for_future_power_sup.html

3-9-04 Moving Toward Zero Energy Affordable Housing (Steve Hogan)

The Claretian Associates are building highly energy-efficient homes on the south side of Chicago. Twelve of the 25 new homes in South Chicago will have PV systems, with technical assistance on the PV panels from Spire Solar. The first two homes with PV panels have been completed, and the homes are being monitored by Steven Winter Associates, Inc., with funding from DOE's Zero Energy Homes program. [Home Energy, March/April 2004] Home Energy:

<http://www.homeenergy.org>

For more information on Claretian Associates, visit <http://www.claretianassociates.org>

3-9-04 California, Chico Solar Power

Chico finance officials are looking at multi-million dollar solar power facilities at three sites. Story through Solarbuzz at:

<http://www.chicoer.com/Stories/0,1413,135%7E25088%7E2003456,00.html>

3-9-04 Renewables Manufacturers Directory (Amy Cole, Research & Markets)

A directory listing over 1,100 manufacturers of renewable energy systems products is available. See Web Site: <http://www.researchandmarkets.com/reports/53037/>

3-9-04 U.S., Energy Appropriations FY 2005 - Hearings (subject to change)

House Appropriations, Energy & Water, DOE, 3-11-04

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

3-8-04 Isofoton Enters the U.S. Market

Isofoton sees significant opportunity in the North American PV market. The Madrid-based company will enter the U.S. market through a partnership with Energy Outfitters. Said Isofoton North America CEO Javier Gorbeya, "With partners like Energy Outfitters and an understanding of the rapid growth in the PV market in the US and all over the world, we are aggressively growing our production capacity from 36 MW last year to 45 MW this year and expect to grow into our new 100 MW factory in the near future." Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6244>
<http://www.solaraccess.com/news/story?storyid=6243>
Isofoton: <http://www.iso-foton.com/>
Energy Outfitters: <http://www.energyoutfitters.com/>

3-8-04 Uni-Solar Order for PV Panels

United Solar Ovonic LLC announced it has received an order for 1.25 MW of PV panels from Sunset Energietechnik GmbH (Sunset) of Germany. Sunset has also signed a letter of intent to purchase 5 MW of UNI-SOLAR(R) (UNI-SOLAR® is a registered trademark of the United Solar Ovonic LLC) products over the next 24 months. Story at: http://biz.yahoo.com/prnews/040308/dem017_1.html
Uni-Solar: <http://www.uni-solar.com/>

3-8-04 Karl W. Boer - Solar Energy Medal of Merit (Bonnie Johnston)

Nominations are invited for the Karl W. Boer - Solar Energy Medal of Merit. The medal will be awarded to an individual who has made significant pioneering contributions to the promotion of solar energy as an alternate source of energy through research, development, or economic enterprise, or to an individual who has made extraordinary valuable and enduring contributions to the field of solar energy in other ways. Nominations must be received before September 1, 2004. See: <http://www.udel.edu/iec/KWBmm.html>

3-8-04 World PV Cell / Module Production

Paul Maycock's March 2004 issue of PV News (subscription) provides the latest figures for world PV cell / module production, coming in at 742.28 MW for 2003 of which 104.22 is U.S. Production in Europe and Japan boomed. Details, and more news, at PV News. PV News email: pves@pvenergy.com. Home page: <http://www.pvenergy.com>. Phone/fax: 540-349-4497.

3-8-04 Strong Growth for Solar PV

Power generation from PV in the U.S. will grow by 28.8% over the next 2 decades according to a new report by the U.S. Department of Energy. Story at: http://www.powerpulse.net/cgi-bin/displaystory_new.pl?id=10221

3-8-04 WorldWater Corp. \$1M of Equipment

WorldWater Corp. announced it will ship \$1M of PV equipment this month to the job site at Cerro Coso Community College in Ridgecrest, California. The equipment includes solar modules from Sharp Electronics, inverters, combiner boxes, isolation transformers and electronic components. The project design consists of 6-1/2 acres of ground-mounted solar modules and a concrete building for equipment and lab space. Story at: http://biz.yahoo.com/bw/040308/85182_1.html
WorldWater: <http://www.worldwater.com/>

3-8-04 Germany, SOLON AG Module Assembly Production

SOLON AG reported that it produced and sold 11.3 MW in 2003, compared with 5.3 MW the previous year, and anticipates that module production in 2004 will be between 20 and 25 MW. Information at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUCO118.htm>
SOLON AG: <http://www.solonag.com/english/index.htm>

3-8-04 Hawaii, Fuel Bill Prompts Re-focus on Renewables

Kauai's Island Utility Cooperative officials are hopeful that better efficiency and the use of alternative energy resources may help offset future hikes in electric bills. Story at: <http://www.kauaiworld.com/articles/2004/03/06/news/news02.txt>

3-8-04 The "Green" Way to Fight Job Loss in the U.S.

Per this article, "This election season should elevate us past defensiveness to a grand debate on how the United States anticipates the inevitable decline of fossil fuels, pushes an imaginative array of sustainable-development technologies, and uses the process to generate millions of new jobs for Americans." See <http://www.commondreams.org/views04/0302-05.htm>

3-8-04 U.S., Energy Appropriations FY 2005 - Hearings (subject to change)

House Appropriations, Energy & Water, DOE, 3-11-04

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

House Appropriations, Interior & Related Agencies, Energy Conservation 3-24-04

3-5-04 Massachusetts, More on Brockton's PV Plans

The Massachusetts city of Brockton is planning a 500 kW solar PV array, to include as many as 6,720 solar panels. The project was spearheaded by the Massachusetts Technology Collaborative, which administers the state's public benefits fund, the Renewable Energy Trust. Spire Solar was involved in conducting the feasibility study. The vendor for the array has not yet been selected. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6236>
MTC: <http://www.mtpc.org/netmac.asp>

3-5-04 Rodney Strong Vineyard PV System

At a dedication ceremony today, Pacific Gas and Electric Company is presenting to Rodney Strong Vineyards a rebate check in the amount of \$2,164,403 for the rooftop mounted PV electric system recently installed by PowerLight Corporation. Story and photo at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR343.htm>

PG&E Self-Generation Incentive Program: <http://www.pge.com/selfgen/>

PowerLight: <http://www.powerlight.com/>

3-5-04 New Mexico, Renewables Bill

Governor Richardson signed into law a measure that says 10% of retail sales by electric utilities must come from renewable energy by 2011. More at:

<http://www.kobtv.com/index.cfm?viewer=storyviewer&id=9079&cat=ENVIRONMENT>

http://www.lcsun-news.com/artman/publish/article_5045.shtml

3-5-04 Life Cycle Analysis of Solar Modules - The "Waste" Challenge (Rebekka Mattyasovszky)

The Workshop on Life Cycle Analysis and Recycling of Solar Modules - The "Waste" Challenge, will be held 18-19 March 2004 in Brussels, Belgium. Programme and Registration Form at the Events Calendar:

http://www.jrc.cec.eu.int/default.asp@sidsz=more_information&sidstsz=press_releases.htm

3-5-04 U.K., London Mayor's Renewables Program

Said Mayor Ken Livingstone, "A city as vast as London consumes an enormous amount of energy. We must work towards generating more of our own renewable energy". "London's energy use will be transformed if we can get solar power into all major new developments," said the mayor's cabinet advisor on environment. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6229>

3-5-04 Introduction to Solar PV, The Technology and Industry (Amy Cole)

This new report outlines the technology, industry, and applications of solar photovoltaics.

Information at Research & Markets: <http://www.researchandmarkets.com/reports/41562>

3-5-04 U.S., Energy Appropriations FY 2005 - Hearings

Senate Appropriations, Energy & Water, DOE, 3/3/04

David Garman's prepared testimony:

<http://appropriations.senate.gov/hearings/record.cfm?id=218625>

Senate Appropriations, Interior & Related Agencies, DOE, 3-4-04

Spencer Abraham prepared testimony:

<http://appropriations.senate.gov/hearings/record.cfm?id=218701>

House Appropriations, Energy & Water, DOE, 3-11-04

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

House Appropriations, Interior & Related Agencies, Energy Conservation 3-24-04

3-4-04 CrystalClear Consortium (Conny Ruitenburg-Tazelaar)

A consortium of 9 companies, 3 universities, and 4 research institutes will develop innovative manufacturing technology for crystalline silicon solar modules. The development will be carried out under the name CrystalClear as one of the first Integrated Projects co-financed by the European Community through the thematic priority "Sustainable Energy Systems" of Sixth Framework Programme for Research. See [press release](#).

3-4-04 WorldWater Corp Solar Technology at Expo

WorldWater Corporation announced it will participate in the Destination Baghdad Expo with its Iraqi partner The Sandi Group, and will exhibit the company's proprietary solar technology, AquaMax(TM) (AquaMax™ is a trademark of the WaterWorld Corporation). Story at:

http://biz.yahoo.com/bw/040304/45094_1.html

3-4-04 WorldWater: <http://www.worldwater.com/>

3-4-04 Utility Energy Forum (Guy Nelson)

The Utility Energy Forum has announced the agenda for its 24th Annual meeting 5-7 May 2004 in Tahoe City, California. This year's meeting includes a pre-Forum workshop and a breakout session on Renewable Energy Technologies and Tradeable Renewable Certificates. For more information, see: <http://www.utilityforum.com/>

3-4-04 Southern States Power-SunAmp Agreement with NativeSUN

Southern States Power Company, Inc. announced that its subsidiary, SunAmp Power, has reached an initial agreement to acquire 24% of NativeSUN, a Native American solar energy company with offices in Arizona and Colorado. Story at:

<http://biz.yahoo.com/pz/040303/53616.html>

SunAmp: <http://www.sunamp.com/>

Native SUN: <http://www.nativesun.biz/>

Southern States Power: <http://www.sspowerco.net/>

3-4-04 Evergreen Solar 4th Quarter and Year End 2003 Results

Commented Richard M. Feldt, President and Chief Executive Officer, "Evergreen Solar completed the \$29.5 million private equity financing in May 2003 and is on track to expand manufacturing capacity fourfold. During the second half of 2003, we made tangible progress on our Line 2 capacity expansion. By February 2004, at least the first piece of new equipment for each process step has been installed, with the remainder of the equipment to be phased in over the course of the year. Since revenues have been capacity limited, this expansion should enable significant revenue growth in 2004 and should further improve our product gross margins." Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO190.htm>

3-4-04 Solar Silicon Conference (Karsten Albers)

Strategies to avoid a shortage of raw material in the rapidly growing solar electricity industry will be addressed at the 1st Solar Silicon Conference 22 April 2004 in Munich, Germany. The 1-day event is organized by PHOTON International - the Photovoltaic Magazine. See [press release](#).

3-4-04 Accra, Ghana, Isofoton Aids Rural Electrification

Isofoton is aimed at supplying electricity to more than 6,000 people through design, supply, installation, commissioning, and maintenance of more than 2,500 solar PV systems in various regions of the country under the Solar Rural Electrification Phase 2. Story at:

<http://allafrica.com/stories/200403020298.html>

3-4-04 U.S., Energy Appropriations FY 2005 - Hearings (subject to change)

Senate Appropriations, Energy & Water, DOE, 3/3/04

David Garman's prepared testimony:

<http://appropriations.senate.gov/hearmarkups/record.cfm?id=218625>

Senate Appropriations, Interior & Related Agencies, DOE, 3-4-04

House Appropriations, Energy & Water, DOE, 3-11-04

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

House Appropriations, Interior & Related Agencies, Energy Conservation 3-24-04

3-3-04 XsunX Research

XsunX announced that recent research has provided the basis for some breakthroughs. XsunX anticipates being able to provide a wider range of optical transmittance filtering capabilities. The Company's management believes that XsunX glazing will provide more versatility to manufacturers for its use in many applications where traditional PV cannot compete. The attributes of transparency, flexibility, light weight and lower manufacturing costs may provide XsunX licensees access to the design of diverse product groups that span and interconnect the architectural glass, optical film and energy markets. Story at:

<http://biz.yahoo.com/pz/040303/53609.html>

XsunX: <http://www.XsunX.com/>

3-3-04 Q-Cells Venture Capital

Germany's Q-Cells AG has raised EUR12.5 million (\$15.6M) in third-round financing and will use the funds to expand its production capacity. Story at:

<http://www.thedeal.com/NASApp/cs/ContentServer?pagename=TheDeal/TDDArticle/StandardArticle&c=TDDArticle&cid=1077919191033&r=InFs&p=M4YD5AR1>

3-3-04 Massachusetts, Brockton \$1.7M for Solar Energy Facility

Funding from the Massachusetts Technology Collaborative was awarded to the city for construction of a solar energy facility. The \$1.7M project will be constructed at the 27-acre site owned by Bay State Gas. Said Rob Pratt, director of the Renewable Energy Trust, "This is very big. It is the largest investment we've ever made in a photovoltaic solar site." Story through Solarbuzz at:

<http://enterprise.southofboston.com/articles/2004/03/02/news/news/news02.txt>

3-3-04 Universal Communication Systems / Millennium International Licensing Agreement

Universal Communication Systems, Inc. subsidiary Millennium Electric T.O.U. Inc. announced they have concluded negotiations, signed a memorandum of understanding, and entered into an international licensing agreement with Capsolair S.A., a Moroccan company, to establish a manufacturing facility to exploit their Photo Voltaic (PV Multi-Solar System (MSS) technology. Story at:

http://biz.yahoo.com/prnews/040303/flw002_1.html

Universal Communication Systems: <http://www.ucsy.com/>
Millennium: <http://www.millennium-electric-inc.com/>

3-3-04 Westar Energy Renewables RFP (Green Power Network)

Westar Energy Inc.'s RFP for up to 200 MW of Renewable Energy, with a notice of intent to respond due by March 9, can be found at:

http://www.wr.com/corp_com/contentmgt.nsf/publishedpages/rfp%20north

Green Power Network: <http://www.eere.energy.gov/greenpower/home.shtml>

3-3-04 Honda's Solar Plans (Photon International)

Honda so far has not decided whether it will commercialize its solar thin-film product, per a spokesperson at Honda R&D Europe GmbH in Offenbach, Germany. However, the board has approved money for R&D and feasibility studies for its CIGS project in 2004. Currently the company operates a 2.8MW production line at Honda Engineering Co. Ltd.'s research facilities in Tochigi prefecture. This and more news at Photon International: [http://www.photon-](http://www.photon-magazine.com/news/news_2004-03%20ap%20sn%20Honda.htm)

[magazine.com/news/news_2004-03%20ap%20sn%20Honda.htm](http://www.photon-magazine.com/news/news_2004-03%20ap%20sn%20Honda.htm)

http://www.photon-magazine.com/photon/news_issue_2004-03.htm

3-3-04 Mitsubishi Electric Solar Panel Contract

Agreement on a multi-million euro contract for supply of solar panels was reached between Mitsubishi Electric Corporation and Alcatel Space in mid-February. Mitsubishi will supply the solar panels for Alcatel Space's Spacebus. Story at:

http://biz.yahoo.com/bw/040303/35256_1.html

Mitsubishi Electric: <http://global.mitsubishielectric.com/>

3-3-04 Support for Renewables / Energy Efficiency (Ken Bossong)

In a letter delivered to members of the U.S. Senate Budget committee, the Sustainable Energy Coalition is calling for a FY 2005 budget resolution "that will make possible robust funding levels for the renewable energy and energy efficiency programs in the budgets of the U.S. Department of Energy, U.S. Environmental Protection Agency, U.S. Department of Agriculture, and other federal agencies." Source: electronic newsletter, Sustainable Energy Coalition March 3.

3-3-04 Nanotech Conference

Penton Media and the NanoBusiness Alliance announced details of its conference program for the 3rd annual NanoBusiness 2004, to be held 17-19 May 2004 in New York City. Topics include "Nanotech and the Environment - From advanced solar panels to water filtration ...".

Information at: http://biz.yahoo.com/bw/040303/35384_1.html

Conference Web Site: <http://www.nanobusiness2004.com/>

3-3-04 Energy Appropriations FY 2005 - Upcoming Hearings (subject to change)

Senate Appropriations, Energy & Water, DOE, 3/3/04

Senate Appropriations, Interior & Related Agencies, DOE, 3-4-04

House Appropriations, Energy & Water, DOE, 3-11-04

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

House Appropriations, Interior & Related Agencies, Energy Conservation 3-24-04

3-2-04 Universal Communication Systems / Millennium \$1.7M Order

Universal Communications Systems, Inc. subsidiary Millennium Electric TOU Limited company president Ami Alazari announced, "Through our contacts in Europe, we have successfully secured a major export purchase order in the total amount of USD \$1.7 million for our Photo Voltaic (PV) Solar Panels and Products to Maass Regenerative Energien GmbH, a large solar energy customer in Germany. This substantial export order is a major breakthrough for the

company, and opens new opportunities for us to market our OEM Photo Voltaic (PV) Solar panels, products and systems to the European market." Story at:

http://biz.yahoo.com/prnews/040302/fitu016_1.html

Maass: <http://www.maass-solar.de/>

Universal Communication Systems: <http://www.ucsy.com/>

Millennium Electric: <http://www.millennium-electric-inc.com/>

3-2-04 ARISE Developments

ARISE Technologies Corporation announced it has entered into a stock purchase agreement to acquire all the outstanding shares of Dankoff Solar Products Inc. of Santa Fe, New Mexico. In addition, ARISE announced the signing of a collaboration agreement with Komag, Inc. to pursue the commercialization of the ARISE patented PV technology currently under development at the University of Toronto. Said ARISE President and CEO Ian MacLellan, "Komag's expertise with respect to thin-film-based products and processes will greatly enhance the development of our photovoltaic technology." Story at: <http://www2.ccnmatthews.com/scripts/ccn-release.pl?current/0302051n.html>

3-2-04 Missouri, Schools Go Solar

The Missouri Energy Center and AmerenUE are partnering to bring solar power and education to K-12 schools. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR341.htm>
Missouri Solar Schools Program: <http://www.dnr.mo.gov/energy/renewables/solar-schools.htm>

3-2-04 California, More on Marin County PV with RWE Schott

A public dedication of the RWE Schott Solar PV array will take place on March 3 and will feature Dr. Donald Aitken as the guest speaker. More at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6212>

RWE Schott Solar: <http://www.solaraccess.com/marketplace/compdetail?compid=1418>

Prevalent Power: <http://www.prevalentpower.com/>

3-2-04 More on Mitsubishi Electric Stand-Alone PV Electricity Generation System

More information on the March 1 announcement of the PV generators can be found at:

http://www.japancorp.net/Article.Asp?Art_ID=6694

Mitsubishi: <http://global.mitsubishielectric.com/>

3-2-04 Sustainable Energy "Sunergy 5" Power Inverter

Sustainable Energy Technologies Ltd. announced the launch of "SUNERGY 5", a wall-mounted 5kW inverter for the grid-connected North American solar power market. Information at:

<http://www2.ccnmatthews.com/scripts/ccn-release.pl?current/0302098n.html>

Sustainable Energy Technologies: <http://www.SustainableEnergy.com/SET-home/index.html>

3-2-04 Energy Appropriations FY 2005 - Upcoming Hearings (subject to change)

Senate Appropriations, Energy & Water, DOE, 3/3/04

Senate Appropriations, Interior & Related Agencies, DOE, 3-4-04

House Appropriations, Energy & Water, DOE, 3-11-04

House Appropriations, Energy & Water, Renewable Energy, etc. 3-17-04

House Appropriations, Interior & Related Agencies, Energy Conservation 3-24-04

3-1-04 The Paul Rappaport National Renewable Energy and Energy Efficiency Award

The National Renewable Energy Laboratory (NREL) launched the Paul Rappaport National Renewable Energy and Energy Efficiency Award two years ago in celebration of the Lab's 25th anniversary. The award is named for NREL's pioneering first director and honors outstanding efforts to advance renewable energy and energy efficiency technologies. The award coordinator

is currently accepting applications for the 2004 award -- nomination forms can be downloaded at the Rappaport Award web site http://www.nrel.gov/rappaport_award/. Nominations must be received by April 2, 2004. For more information, contact Janet Fried, Award Coordinator, at 303-275-3098 janet_fried@nrel.gov.

3-1-04 New Mexico Solar Energy

Governor Bill Richardson plans to use \$3M as seed money for work on a project to use sunshine to generate electricity on a commercial scale. The goal is to attract \$20M to build one or more solar energy plants somewhere in the state. The governor plans to establish a task force to identify a site by the end of 2004. Story at: <http://www.miami.com/mld/miamiherald/8048453.htm>

3-1-04 SunPower Corp. Solar Cell Efficiency

SunPower Corp. announced that its A-300 silicon solar cell had been measured at 21.5% efficiency by NREL. Said Richard King, Team Leader for the photovoltaics subprogram at the U.S. Department of Energy, "SunPower's advancements in developing highly-efficient solar cells and modules are commendable. The achievement of a 21.5 percent efficient solar cell demonstrates that SunPower's unique back-side contact technology can be utilized to manufacture cost-effective products that improve the versatility of solar-electric power systems." Said Tom Werner, SunPower CEO, "This efficiency world record constitutes an important milestone for SunPower and confirms the significant performance advantage of our product." Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPT65.htm>
http://biz.yahoo.com/bw/040227/275121_1.html
SunPower: <http://www.sunpowercorp.com/>

3-1-04 Konarka's Management Team (Joe Romano)

Konarka Technologies Inc. announced that Dr. Bill Beckenbaugh has been appointed as the Chairman of Konarka's Scientific Advisory Council. Beckenbaugh led Konarka through its initial phase to establish a foundation to commercialize and bring breakthrough PV technologies and products to market. Howard Berke, Chairman and CEO, will direct Konarka's team with Daniel Patrick McGahn, Executive Vice President and Chief Marketing Officer, and Randolph W. Chan, Executive Vice President of Operations, Manufacturing, and Engineering. Press at: http://www.konarkatech.com/news_press.php

3-1-04 Mitsubishi Electric's New Modules

Mitsubishi Electric launched 2 new solar modules directed toward international markets. Mitsubishi will market 2 polycrystalline modules, one at 120 Watts with 13% efficiency, and another at 110 Watts with 11.9% efficiency, both with lead-free solder design. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsASPT21.htm>
Mitsubishi: <http://global.mitsubishielectric.com/bu/solar/index.html>

3-1-04 California, Marin's Solar Electric System

The Marin County Public Works Department's solar electric system, provided and installed by Schott Solar Inc. and Prevalent Power Inc., is operational. The cost of the \$662K project was offset by \$233.12K in loans from the state Energy Commission, and a \$324K rebate from Pacific Gas and Electric Company's self-generation incentive program. Story through Solarbuzz at: <http://beta.kpix.com/news/bcn/2004/02/26/n/HeadlineNews/COUNTY-POWER.html>

3-1-04 New York Renewables Portfolio Standard (Highlighted in SEIA Newsletter)

New York State's Public Service Commission has released the Cost Study Report II on the Retail Renewable Portfolio Standard. Download at: http://www.dps.state.ny.us/03e0188_CostStudy_II.htm

3-1-04 Sunpowered Roof Tile

A new range of roof tiles called the Suntile has been launched by Sunpowered. Story through PV-UK at: <http://pv-uk.org.uk/news/news.php?id=127&page=detail>
PV-UK: <http://www.pv-uk.org.uk/news/conferences.html>

3-1-04 SCHOTT Solar Energy Products

A 26 January 2004 article on SCHOTT products can be found at: <http://pv-uk.org.uk/news/news.php?id=124&page=detail>

3-1-04 NIST Advanced Technology Program Proposal Kit

The NIST Advanced Technology Program has a comprehensive ATP Proposal Preparation Kit (booklet) dated February 2004. See <http://www.atp.nist.gov>.

3-1-04 Comprehensive Energy Bill

See Jesse Broehl's update on the "Leaner Energy Bill" at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6198>

3-1-04 Renewable Energy Budgets

ASES speaks to the US Renewable Energy RD&D Program budgets in SolarAccess at: <http://www.solaraccess.com/news/story?storyid=6202>

3-1-04 Renewable Energy Technologies: Global Developments

This study evaluates solar, wind, geothermal, wave, and hydrogen sources of renewable energy. For more information see: http://biz.yahoo.com/bw/040301/15218_1.html

3-1-04 Applied Cost Modeling on Web

Wright Williams & Kelly announced the latest edition of the E-Zine "Applied Cost Modeling" is now available on its web site under the newsletter link. E-Zine is dedicated to manufacturing cost reduction and productivity improvements. Information at: http://biz.yahoo.com/bw/040301/15825_1.html
WWK: <http://www.wwk.com/>

3-1-04 Million Solar Roofs Bulletin

Please note: The MSR Team Bulletin referred to last week is specifically for the MSR team (and partners).

3-1-04 Energy & Water Appropriations, FY 05

The Senate Appropriations Energy and Water Subcommittee will hold a hearing on March 3 to examine the proposed budget estimates for FY 2005 for the Department of Energy's Office of Science, Office of Nuclear Energy, and Office of Energy Efficiency and Renewable Energy. The House Appropriations EWD hearing is scheduled for March 11.

FEBRUARY

2-26-04 SatCon's PV System UL Certification

SatCon Technology Corporation announced that its PowerGate AE-PV 50-kW PV Power Conversion System has been UL-1741 certified. United Solar Ovonics (Uni-Solar) has agreed to use SatCon as its preferred supplier for 50-kW and 100-kW PCSs for commercial PV systems worldwide. Story at: http://biz.yahoo.com/bw/040226/265043_1.html
SatCon: <http://www.satcon.com/>

2-26-04 WorldWater Distribution Agreement

WorldWater Corp. announced it has entered into an agreement with Water Tech Ag Supply who will initially sell WorldWater's solar irrigation and solar farming systems to its customer base in Southern California. Story at: http://biz.yahoo.com/bw/040226/265028_1.html
Agricultural Supply: <http://www.agsupply.com/>
World Water Corporation: <http://www.worldwater.com/>

2-26-04 California, Community College District \$1M+ Incentive

The Los Angeles Community College District received an incentive of more than \$1M from the LA Department of Water and Power for an innovative solar generation system recently installed at Pierce College in Woodland Hills. The incentive was presented as part of LADWP's Solar Incentive Program. Story at: http://biz.yahoo.com/bw/040225/255996_1.html

2-26-04 California RPS

Documents available for the upcoming stakeholder workshop on Renewable Portfolio Standards include two reports on "California Renewable Portfolio Standards Integration Cost Analysis". The reports can be downloaded from: <http://www.energy.ca.gov/portfolio/documents/index.html>

2-26-04 PV Activities in Japan (Resources Total System Co., Ltd)

The February 2004 issue of PV Activities in Japan (subscription) includes a table showing historical and planned PV annual production capacity for major Japanese players, with two in the 100-300 MW range and two moving toward the 100+MW scale in the near future. This and much more information is available in the monthly newsletter through Resources Total System Co., Ltd., Tokyo, email: ikki@rts-pv.com, fax +81-3-3553-8954.

2-26-04 Hawaii, Maui's Biggest Solar Power System

Island Dodge is expanding its solar power system to be a 52.2 kW array, the largest solar electric system on Maui. Story through Solarbuzz at: <http://pacific.bizjournals.com/pacific/stories/2004/02/23/daily46.html>

2-26-04 Million Solar Roofs Team Bulletin

MSR's inaugural issue of the MSR Team Bulletin February 27 covers solicitations, new products, publications, meetings, and news articles of interest. Contact: jaima_mellor-lindquist@nrel.gov
MSR: <http://www.millionsolarroofs.com/>

2-26-04 Florida, School PV Systems

The SunSmart schools program is a statewide initiative to install 29 solar electric systems in schools throughout the state. See recent developments at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR338.htm>

2-26-04 Xantrex IPO

Information on the Xantrex Technology Inc. IPO can be found at:

<http://www.globeandmail.com/servlet/ArticleNews/TPStory/LAC/20040226/RYoung26/TPBusiness/TopStories>

2-26-04 Texas, Here Comes the Sun (Craig Cox)

In December, Austin announced its intention to become the clean energy capital of the world. Says this article, "Austin is betting there will be a profitable sweet spot at the intersection of energy grids, digital networks, chip fabs, and solar panels. It reasons that developing innovative technology is the best way to find fat profit margins that won't be offshored overnight." Story at Wired: <http://www.wired.com/wired/archive/12.03/view.html?pg=4>

2-26-04 Ghana Investment in Solar Technology

The government "would" invest between 20 and 25 million cedis to promote solar PV technology in rural areas under the Ghana Poverty Reduction Strategy and the Renewable Energy Road Map for Ghana. More in the story through Solarbuzz at:

<http://www.ghanaweb.com/GhanaHomePage/NewsArchive/artikel.php?ID=52472> (100 GHC Ghana Cedis = 0.0112939 USD)

2-25-04 Ohio, Solar Panel Plant

Said Ken Zweibel, NREL, at a noontime program at the Toledo Club, Toledo is home to one of the world's top solar panel plants. The area's manufacturing legacy and prowess contributed to production advances that are establishing First Solar LLC, with operations in Perrysburg Township, as a leader in the field. Story at:

<http://www.toledoblade.com/apps/pbcs.dll/article?AID=/20040225/BUSINESS03/402250327>

2-25-04 Green Pricing Program Reports

Two new reports on utility green pricing programs are available on line from the Lawrence Berkeley National Laboratory and the National Renewable Energy Laboratory. For more information, and links to the reports, see SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6177>

2-25-04 U.K., Solar Panel Noise Barriers

Solar panels installed along the highway are part of a 12-month Highways Agency and Transport Research Laboratory pilot scheme to use noise barriers as solar energy sources. Story at:

<http://www.portsmouthtoday.co.uk/ViewArticle2.aspx?SectionID=455&ArticleID=744984>

2-25-04 Harvester Mobile Water Purifier (Jackie Abramian)

SolarOne(TM) (SolarOne™ is a trademark of the Systems Design and Technology) Solutions Harvester(TM) (Harvester™ is a trademark of the SolarOne™ Solutions) Mobile Water Purifier will be featured on 26 February at a New York City event. The event will launch 1st Rochdale Cooperative's "One Village at a Time" program, 10am, 465 Grand St. in Manhattan. SolarOne:

<http://www.solarone.net/>

1st Rochdale Cooperative: <http://www.1stRochdaleNYC.coop/>

2-24-04 Konarka Licenses DuPont IP (Joe Romano, HighGround)

Konarka Technologies, Inc., has licensed intellectual property from DuPont Electronic & Communication Technologies to compliment Konarka's organic PV program. The license also gives Konarka access to certain IP originally developed by the University of California. Said Howard Berke, Chairman, Konarka Technologies, "This significant licensing agreement broadens Konarka's technology platform and uniquely positions the Company to take advantage

of nanotechnology developments in both dye-sensitized cells and polymer cells. Hybrid cells offer the best of both worlds. Gaining access to intellectual property about hybrid cells further enables Konarka to deliver on its vision of bringing flexible, lightweight, low cost photovoltaics to market."

Konarka Technologies: http://www.konarka.com/news_press.php

2-24-04 More on Green Oasis

First National Power Corp appointed Walter Patterson as Project Manager for the Green Oasis Project, and Chris Baumgartner of SatCom Communications to develop the Telecom Communications Module for the GO Program Telephony Unit. Green Oasis delivers a turnkey power, clean water and telecom communications infrastructure in a single portable unit, and comes powered by renewable energy from wind and solar. Story at:

http://biz.yahoo.com/bw/040224/245311_1.html

First National Power: <http://www.firstnationalpower.com/>

2-24-04 Renewables Progress

In an article in SolarAccess RE Insider, Michael Eckhart reviews Europe's remarkable progress in renewables, including impacts of a key meeting in Berlin, and proposes how the U.S. might respond. Story at: <http://www.solaraccess.com/news/story?storyid=6159>

2-24-04 More on Scottish Enterprise Renewables Report

More on this report on the future of renewables can be found at the Website:

<http://tinyurl.com/39ehh>

2-24-04 Solid-state Lighting Solicitation

A notice of intent to issue a funding opportunity announcement on Solid State Lighting Core Technologies" can be found at: <http://tinyurl.com/2yqla> and

http://www.netl.doe.gov/ssl/funding_opp.html

2-23-04 Charis Energy Solar Panel Pricing

Charis Energy Development, Inc., a subsidiary of Aquentium, Inc., announced the company has set the pricing for their newly invented solar panel at \$2.50 per Watt. Said Aquentium President Mark Taggatz, "Our pricing strategy is designed to allow affordable solar energy on a world-wide scale...". Story at: http://biz.yahoo.com/prnews/040223/lam115_1.html

January article: http://biz.yahoo.com/prnews/040105/lam052_1.html

2-23-04 Million Solar Roofs Solicitation

The Department of Energy is announcing its intention to solicit applications from State and local partnerships under the Million Solar Roofs Program. Highlighted in Platts Inside Energy

(subscription), Federal Register Notice at: <http://tinyurl.com/2j8vx>

Million Solar Roofs: <http://www.millionsolarroofs.com/>

2-23-04 Universal Communication Systems "Consortium Agreement"

Universal Communication Systems, Inc. subsidiary Millennium Electric T.O.U. announced it has been awarded a Euro 1 million (\$1.3M) Consortium Agreement by the Commission for the European Community in the framework of the Cooperative Research Program for ongoing development of the "Multi Solar System Roof Tile, etc." within the framework of the project known as "Development of an Integrated Solar System for Buildings." Story at:

http://biz.yahoo.com/prnews/040223/flm010_1.html

Europa: <http://europa.eu.int/>

Millennium: <http://www.millennium-electric-inc.com/home.html>

2-23-04 Advent Solar at Venture Symposium

Sixteen technology companies, including Advent Solar, will present at this year's Equity Capital Symposium 11-12 May. The annual Technology Ventures Corp. event provides startup companies a chance to present their products to potential investors from all over the world. The symposium is designed to help commercialize technologies, including those that have originated from national laboratories and research institutions in New Mexico, Nevada, and California. Story at: <http://tinyurl.com/2syzb>

2-23-04 Green Tags Brokerage on West Coast

Evolution Markets launched brokerage services from its new office in San Francisco, California for the national green tag and West Coast regional compliance renewable energy and emissions trading markets. Said Peter Zaborowsky, Managing Director, "Having a local presence on the West Coast should enhance our ability to serve the voluntary market for renewable energy certificates." Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6155>
Evolution Markets: <http://www.evomarkets.com/>

2-23-04 WorldWater Chairman Address to Investors

Quentin T. Kelly, Chairman and CEO of WorldWater Corp. will address the Institutional Investor Forum 2004 conference 25 February in New York. Information at: http://biz.yahoo.com/bw/040223/235263_1.html
WorldWater: <http://www.worldwater.com/>

2-23-04 Carmanah PV Lighting Orders

The Aviation Lighting Division of Carmanah Technologies Inc. surpassed the \$1 million mark in orders for the first 49 days of 2004. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR337.htm>
Carmanah: <http://www.solarairportlights.com/>

2-23-04 Tucson, Arizona Solar Option

The Arizona Corporation Commission approved a new pricing option on solar systems from Tucson Electric Power, reducing the average cost by about \$660. Story at CNN Yellowbrix: <http://tinyurl.com/yq2bk>

2-23-04 Energy Conversion Devices Operating Results

Energy Conversion Devices announced its operating results for the 2nd quarter ending December 21, 2003. The company's net loss was \$13.4 million, compared to a loss of \$5.8 million in the same quarter last year. The company is engaged in a number of negotiations and discussions to fund its operations, including forming new strategic alliances to fund and grow its PV, fuel cell, and other businesses and raise additional capital through equity and debt financing. And, it is engaged in negotiations with government agencies for contracts to fund its development activities. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNACO185.htm>

Energy Conversion Devices:

http://www.ovonic.com/news_events/5_2_press_releases/20040217.htm

2-23-04 Basel Agency for Sustainable Energy Call for Projects

BASE has made a call for projects for its 5th International Investment Forum for Sustainable Energy to be held 1-2 June 2004 as part of the Sustainable Energy Finance event organized by BASE, UNEP and UNEP Finance Initiative in conjunction with the International Conference for Renewable Energies in Bonn, Germany. BASE is looking for projects or business ventures from the renewable energy and energy efficiency sector that have reached a stage where 3rd party

financing is required to enter and penetrate the market and expand their activities. Information at: <http://www.energy-base.org/forum04/>

This and more international news in the: GVEP Newsletters
http://www.rsvp.nrel.gov/asp/newsletter_search.asp

2-23-04 £25 Billion a Year on Renewable Energy

The amount of money spent globally on renewable energy is expected to grow to £25 billion a year by 2007 according to a study commissioned by Scottish Enterprise. Also 44% of the forecasted £90 billion spent between 2004 and 2007 is expected to be in Europe.

<http://tinyurl.com/3dkl3>

2-23-04 India, Solar Power Plants

Jaipur: Rajasthan Electronics and Instruments has an Rs 11 crore order from Rajasthan Renewable Energy Corporation for 10-kW solar power plants in 27 villages in 7 districts of the state. Story through Solarbuzz at: <http://economictimes.indiatimes.com/articleshow/496974.cms>

2-23-04 Indonesia, Solar Home System

The Solar Home System, an individual solar electric power unit, will be installed in 2,750 homes that are without electricity services in 13 remote regencies throughout Indonesia. Story through Solarbuzz at: <http://tinyurl.com/yqq9u>

2-23-04 Antireflection Coating Patent and Tests

Scientists at the Institut fur Nichtmetallische Werkstoffe of the Technical University of Clausthal have succeeded in applying a practical and functional antireflection coating, which increases the light transmission of the glass tubes in parabolic-trough solar collectors by up to 7%. Story at:

http://www.eurekalert.org/pub_releases/2004-02/tuc-acf022004.php

2-20-04 SMA America a Zero-energy Business

SMA America announced the installation of a 21.6-kW PV system on their headquarters in Grass Valley, California, which makes the company a zero-energy business. The system comprises 12 1800U SMA America Sunny Boy inverters and 192 solar modules. Story at:

<http://www.solarbuzz.com/News/NewsNAPR336.htm>

SMA: <http://www.sma-america.com/index.asp>

Upcoming SMA Training: <http://www.solaraccess.com/news/story?storyid=6137>

2-20-04 NIST Advanced Technology Program Proposers' Conferences

For more information on the conferences for the solicitation, see:

<http://www.atp.nist.gov/atp/proposers.htm>

2-20-04 Zero-energy Homes

According to a report by the Florida Solar Energy Center, "Field Evaluation of Efficient Building Technology with Photovoltaic Power Production in New Florida Residential Housing", "...energy efficient housing incorporating utility integrated PV power can reduce total electrical consumption by 70 percent or more over traditional housing". Story at: <http://tinyurl.com/38gna>

2-20-04 Roof-top PV in TEAM program, Canada

Roof-top PV panels in Canada's first solar-powered community will test a new galvalume substrate material that may reduce costs and increase long-term durability of solar systems. Four solar systems are being installed with funding from the federal TEAM program and using Uni-Solar's amorphous BIPV. This and other news from the Canadian Association for Renewable Energies (Bill Eggertson) at: <http://www.renewables.ca/main/main.php>

ARISE News, Solar Neighborhood 2-12-04: <http://www.arisetech.com/>

2-20-04 Tonga Solar PV System

Toyota Tsusho will assess the economics of using solar on the island of Tonga in the South Pacific, and selling the CO2 emission credits under the Kyoto Protocol's Clean Development Mechanism. The study is being conducted with Showa Shell Sekiyu, which would supply the PV panels, and Chubu Electric Power. See News-in-Brief at ReFocus 2-18-04: <http://www.refocus.net/>

2-20-04 U.S. Congress, Upcoming Energy Budget Hearings (Subject to Change)

February 26, 10am, House Appropriations, Interior & Related Agencies, Secretary of Energy.

March 11, 10am, House Appropriations, Energy & Water Development, Department of Energy.

March 17, 10am, House Appropriations, Energy & Water Development, Renewable Energy.

March 24, 10am, House Appropriations, Interior and Related Agencies, Energy Conservation.

2-19-04 Global Solar Thin-Film Solar Module Efficiency

Global Solar Energy has built a large-area solar module with 10.7% efficiency, claiming the most efficient flexible thin film module ever built on a production line. The module was produced among a batch of PV material with an average conversion efficiency exceeding 10%. On the same production line, Global Solar has built cells with conversion efficiencies up to 12.5%. Said President Michael S. Gering, "Achieving these levels of efficiency from our cost-efficient production process validates Global Solar's decision to develop and commercialize this technology." Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAMA35.htm>
Global Solar: http://www.globalsolar.com/GLOBAL_FLASH.htm

2-19-04 U.K. £5M for Solar Projects

The government announced about £5M of funding for new solar projects as part of the Major Photovoltaic Demonstration Programme. Story at: <http://www.greenconsumerguide.com/index.php?news=1717>
Energy Saving Trust: <http://www.est.co.uk/solar/>

2-19-04 Darnell DG Report and PV

According to this article, "Over the past year or so, numerous companies have been shifting their focus to photovoltaics (PV). This has never been a large market, but it is the fastest-growing of the more common DG technologies, according to Darnell's 'Distributed and Cogeneration: Power Electronics' report." Story at: http://www.powerpulse.net/cgi-bin/pp_pwrlines.pl?id=164

2-19-04 California, San Francisco Ordinance

City officials introduced new legislation to use the state's "Community Choice" law, in conjunction with the City's 2001 Voter-Approved solar "H Bond" Authority, to switch San Francisco to a new electricity supplier and build enough PV installations, wind turbines, efficiency and conservation installations, and hydrogen technologies to power 1/4 of the community with green power before the end of the decade. Supervisor Tom Ammiano announced this "Energy Independence Ordinance" with cosponsors on Tuesday. Story at: <http://www.commondreams.org/news2004/0218-05.htm>

2-19-04 U.S. Department of Energy, Office of Science 20-Year Vision

The U.S. Department of Energy's Office of Science has released its Strategic Plan for basic research. The plan sets short-term (5-10 year) and long-term (10-20 year) scientific goals. For

more information see: <http://tinyurl.com/275yd>
Plan at: <http://www.science.doe.gov/>

Revisited...

2-19-04 FPL Solar Operations

150 MW (should be kW). Source story at: <http://tinyurl.com/3gaa5>
FLP Story: <http://www.fpl.com/news/2004/contents/04012.shtml>

2-19-04 IREC News

The latest newsletter from the Interstate Renewable Energy Council has many news articles on renewable energy programs, updates on Million Solar Roofs, upcoming events, etc. See: <http://irecusa.org/>

2-19-04 Million Solar Roofs Farm Bill Link

See the Farm Security and Rural Investment Act of 2002 (the Farm Bill) section on renewable energy through the link at: <http://tinyurl.com/2xxhp>

2-19-04 U.S. Comprehensive Energy Bill

Senate leaders have agreed to consider a leaner version of the energy bill. Senate Republican and Democratic leaders reached agreement to bring the new bill (S. 2095) directly to the floor without committee consideration. Press at:

http://energy.senate.gov/news/rep_release.cfm?id=217948
http://energy.senate.gov/news/rep_release.cfm?id=218069

2-19-04 Capstone / First National Power "Green Oasis"

Capstone International Corp. / First National Power Corporation announced The GREEN OASIS concept, which will deliver a turnkey power, clean water, and telecom infrastructure in a single portable unit. The Green Oasis will come fully powered and ready to provide clean power generation through renewable energy from wind and solar technologies. Power will be stored in high-efficiency rechargeable lithium ion batteries. Story at:

http://biz.yahoo.com/prnews/040217/sftu100_1.html

2-18-04 Konarka Technologies Receives \$6M Award from DARPA (Joe Romano)

Konarka Technologies, Inc., announced it has been selected by the Defense Advanced Research Projects Agency (DARPA) to receive a contract in excess of \$6 M for basic research in developing new materials for hybrid PV cells. Konarka will lead a consortium of academic and national laboratories to develop new materials for hybrid PV. Konarka will manage the contract and will share the award over 5 years with R&D partners including Arizona State University; the National Renewable Energy Laboratory; University of Delaware; University of Massachusetts, Lowell; and U.S. Army Soldier Systems Center in Natick, Massachusetts. Press Release:

http://www.konarkatech.com/news_press_6m_darpa.php

2-18-04 Evergreen Files Objections with AstroPower Bankruptcy Court

Evergreen Solar, Inc. filed objections with the U.S. Bankruptcy Court regarding the pending sale of the assets of AstroPower, Inc. Said Richard M. Feldt, President and Chief Executive Officer of Evergreen Solar, "We have a potential interest in acquiring selected assets of AstroPower that will complement our String Ribbon Technology. Although no decision has been made whether to bid for any assets, we want to ensure that, if we submit a bid, we will do so on a level playing field." Press at: <http://tinyurl.com/3ahth>

2-18-04 More on AstroPower

See RE Insider perspectives on AstroPower at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6106>

2-18-04 Kaneka's New PV Generation System

Japan-based Kaneka has developed a new PV generation system, equipped with a built-in insulator solar battery module. The company will deploy the systems at 4 of its plants and its subsidiary Kaneka Solar Tec and begin operation in March. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6119>

2-18-04 Uni-Solar Ovonic 1-MW Order

United Solar Ovonic LLC announced it has received an order for 1 MW of PV panels from ThyssenKrupp Hoesch Bausysteme GmbH. The products will be used by Thyssen to address the expanding building-integrated PV market in Germany. Story at:

http://biz.yahoo.com/prnews/040218/dew005_1.html

Uni-Solar: http://www.uni-solar.com/products_markets.html

2-18-04 India, Microsol Power Cells and Modules

Microsol Power is a cell and module manufacturer with a 6-MW manufacturing facility in Hyderabad, India. It currently supplies its mono-crystalline modules to more than 7 countries and is set to increase its customer base and manufacturing capacity to 12 MW by June 2004. These and other Microsol developments at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASPT20.htm>

Microsol: <http://www.microsolpower.com/>

2-18-04 Workshop on PV Energy Incentive Programs 8 March 2004 (European Photovoltaic Industry Association)

The Gruppo Imprese Fotovoltaiche Italiane in cooperation with the European Photovoltaic Industry Association and the Mechanical Engineering Department of the Rome University are organizing an international workshop to present a scenario where the renewable energies, with special emphasis on PV energy, can contribute to the reduction of air pollution and favor the achievement of the Kyoto Protocol targets. The best experiences of the European Countries in the application of the feed-in tariff incentive program for the PV market will be covered during the workshop, as will new measures being drafted to support the production of electricity from PV energy. Additional information can be obtained from GIFI (Email: gifi@anie.it) and from EPIA (Email: epia@epia.org)

2-18-04 FPL Solar Operations

FPL Group Inc. is looking at sites where it can build 150 MW of solar operations as part of its new green power program. Story through Solarbuzz at: <http://tinyurl.com/3gaa5>

2-18-04 2004 Paul Rappaport Award

Nominations for the Paul Rappaport National Renewable Energy and Energy Efficiency Award are due by April 2, 2004. For more information, visit http://www.nrel.gov/rappaport_award/

2-18-04 Africa, Off-Grid Project Review

Johannesburg: The government is reviewing its off-grid renewable energy program after finding that it does not meet targets. The provision of electricity to remote areas, especially using solar energy technology, will be halted while the government seeks other sources of power. Story through SolarAccess at: <http://allafrica.com/stories/200402130458.html>

2-18-04 Altair Nanotechnologies Board

Altair Nanotechnologies announced it has appointed Dr. David S. King to its board of directors. Said King, Managing Partner at Advanced Technology Group, "The opportunity to join Altair's board of directors is truly exciting. Of all the nanoscience companies operating in this rapidly emerging market, Altair is among the best positioned to meaningfully deliver nanotechnology across multiple markets. I look forward to working closely with Altair's senior management ...". Story at: <http://biz.yahoo.com/iw/040218/063234.html>

Re-visited....

2-18-04 NIST ATP 2004 Competition

The U.S. Department of Commerce—National Institute of Standards and Technology—Advanced Technology Program has announced the 2004 competition for high-risk R&D funding. In fiscal year 2004, the ATP intends to hold only this single competition, which will close on April 14, 2004. See the web site for more information at: <http://www.atp.nist.gov/>

2-18-04 Arizona Corporation Commission and PV

The Arizona Corporation Commission approved an increase in the Environmental Portfolio Standard percentage to 1.1% of retail electricity sales by 2007. The EPS requires utilities to generate a percentage of their retail energy sales through solar and other renewable energy resources, 60% of which must come from solar-electric sources. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAGO158.htm>

ACC Press: <http://www.cc.state.az.us/news/pr02-11-04.htm>

See information in this Solarbuzz article about upcoming workshops to address EPS funding levels, elimination of the EPS expiration date, restoration of demand-side management funding, and allocation of funding among various technologies. AriSEIA:

<http://www.arizonasolarindustry.org/>

2-18-04 Jacksonville, Florida, Request for Proposals for 1-300 MW of Renewable Energy Generation

JEA electric system serves more than 360,000 customers in Jacksonville and parts of 3 adjacent counties. See: JEA RFP#JPS-073-04-Renewable Energy Generation, and Current Bid Openings at: <http://www.bids@jea.com/business/services/publicnot/index.asp>

Source: Green Power Network: <http://www.eere.energy.gov/greenpower/home.shtml>

2-18-04 California Energy Commission Notice of Workshops on PIER-EA

Information about the upcoming workshops for the PIER-EA grant program proposal solicitation can be found at: http://www.energy.ca.gov/pier/notices/2004-02-06_wrkshp_notice.html

2-17-04 NIST ATP 2004 Competition

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2-17-04 IREC News

The latest newsletter from the Interstate Renewable Energy Council has many news articles on renewable energy programs, updates on Million Solar Roofs, upcoming events, etc. See:

<http://irecusa.org/>

2-17-04 Million Solar Roofs Farm Bill Link

See the Farm Security and Rural Investment Act of 2002 (the Farm Bill) section on renewable energy through the link at: <http://tinyurl.com/2xxhp>

2-17-04 Arizona Corporation Commission and PV

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Source: Green Power Network: <http://www.eere.energy.gov/greenpower/home.shtml>

2-17-04 U.S. Comprehensive Energy Bill

Senate leaders have agreed to consider a leaner version of the energy bill. Senate Republican and Democratic leaders reached agreement to bring the new bill (S. 2095) directly to the floor without committee consideration. Press at:

http://energy.senate.gov/news/rep_release.cfm?id=217948

http://energy.senate.gov/news/rep_release.cfm?id=218069

2-17-04 WorldWater's 1-MW California College Solar Project

Construction has begun on the nation's largest college installation of a PV system. The 1-MW system is being installed at Cerro Coso Community College, Ridgecrest, California by the prime contractor, Contra Costa, Inc., of Bakersfield. WorldWater Corp. is the exclusive PV supplier.

Story at: http://biz.yahoo.com/bw/040213/135063_1.html

Also, coverage at: <http://www.solarbuzz.com/News/NewsNAPR335.htm>

WorldWater: <http://www.worldwater.com/WW7.25.03/wwpages/wwhome.html>

2-17-04 California Energy Commission Notice of Workshops on PIER-EA

Information about the upcoming workshops for the PIER-EA grant program proposal solicitation can be found at: http://www.energy.ca.gov/pier/notices/2004-02-06_wrkshp_notice.html

2-17-04 Energy Outfitters Forums

Energy Outfitters will host a series of Renewable Energy Professional Technical Forums during the month of March. Information at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6101>

Energy Outfitters: <http://www.solaraccess.com/marketplace/compdetail?compid=623>

2-17-04 Capstone / First National Power "Green Oasis"

Capstone International Corp. / First National Power Corporation announced The GREEN OASIS concept, which will deliver a turnkey power, clean water, and telecom infrastructure in a single

portable unit. The Green Oasis will come fully powered and ready to provide clean power generation through renewable energy from wind and solar technologies. Power will be stored in high-efficiency rechargeable lithium ion batteries. Story at: http://biz.yahoo.com/prnews/040217/sftu100_1.html

2-12-04 See note about yesterday's repeated NCPV Hotline edition at the end of this edition

2-12-04 Japan, Sanyo Electric Raises Solar Cell Production Capacity

Sanyo Electric Co. announced it would double its solar cell production capacity at its plant in Osaka Prefecture by January 2005. The company says the expansion will make it the second largest solar cell manufacturer in Japan. The increase will enable the Sanyo Group to reach an annual capacity of 133 MW. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASMA33.htm>

Sanyo: http://www.sanyo.co.jp/koho/index_e.html

2-12-04 Renewable Energy Caucus (Ken Bossong, Sustainable Energy Coalition)

In a February 12 letter, 78 business, environmental, consumer, religious, and energy policy organizations urged members of Congress to join the House Renewable Energy & Energy Efficiency Caucus. A similar letter will be delivered to the members of the Senate who have not yet joined. The House and Senate RE/EE Caucuses are non-legislative, bipartisan organizations created to promote greater awareness among members of Congress of the status and potential of renewable energy and energy efficiency technologies. Source: Sustainable Energy Coalition news.

Sustainable Energy Coalition: <http://www.sustainableenergy.org/>

2-12-04 U.S. House of Representatives Energy Committee

Joe Barton (Texas) is the new chairman of the House Energy and Commerce Committee, replacing Billy Tauzin.

2-12-04 DayStar Technologies Closes Initial Public Offering

DayStar Technologies, Inc., announced it has closed its initial public offering of 2.1 million units consisting of one share of common stock, one Class A redeemable warrant, and two Class B non-redeemable warrants. The units were priced and sold at \$5 per unit. These units began trading February 6 on the Nasdaq Stock Market under the symbol DSTIU. Net proceeds to the company will be about \$8.8 million, after estimated expenses and underwriting discounts for the offering. DayStar has developed a copper-indium-gallium-selenide solar cell, and is developing a high-volume manufacturing process. More about future activity at:

http://biz.yahoo.com/prnews/040212/sfth079_1.html

2-12-04 Altair Nanotechnologies Presentation

Altair Nanotechnologies will be presenting on February 18 at the Roth Capital Partners 16th Annual Growth Stock Conference in Dana Point, California. President Rudi E. Moerk will discuss the Company's proprietary technologies for making nanocrystalline materials, and Altair's positioning and key differentiators. The company is currently developing materials with potential applications in pharmaceuticals, titanium pigment and metal, batteries, fuel cells, solar cells, advanced energy storage devices, thermal spray coatings, catalysts, cosmetics, and environmental remediation. More at: http://biz.yahoo.com/bw/040212/125029_1.html

2-12-04 Solar Power in Suburbia

Per this article, "In one of life's little ironies, solar power is gaining a toehold in the most unlikely of places - the world of SUVs, big-screen TVs, and two-fridge families - in the 'burbs. And if it can gain acceptance there, some analysts say, the technology is on the cusp of widespread

acceptance". See review of solar in suburbia, including links to incentive programs, at:
<http://www.csmonitor.com/2004/0212/p14s02-sten.html>
<http://www.dsireusa.org/>

2-12-04 New York Renewables

The New York Independent System operator released a report stating that the integration of the amounts of intermittent renewable resources contemplated under the NY Renewable Portfolio Standard would not have a significant impact on the operation, reliability, or expense of New York's power grid. Information and link to report at SolarAccess:
<http://www.solaraccess.com/news/story?storyid=6072>

2-12-04 California Energy Commission Workshop

The Renewables Committee of the CEC will conduct a workshop to solicit input on the costs of integrating renewables into California's electricity system, on February 20, 2004 in Sacramento. See the workshop notice, and link to "California Renewables Portfolio Standards Integration Cost Analysis, phase 1, at: <http://tinyurl.com/3g9ks>

2-12-04 Five Power Companies Commit to Clean Energy

Five electric power companies across the U.S. responded to a challenge from the World Wildlife Fund to become the first U.S. power companies to support a mandatory cap on carbon dioxide emissions and confirm their commitment to clean energy. More at CNN Yellowbrix:
<http://tinyurl.com/28nkn>

2-12-04 Florida Power and Light Green Power

FPL's 3.6 million residential customers throughout Florida can sign up for cleaner energy through the company's Sunshine Energy(R) (Sunshine Energy® is a registered trademark of the Florida Power & Light Company) program. Story at Solarbuzz:
<http://www.solarbuzz.com/News/NewsNAPR334.htm>
Sunshine Program: http://www.fpl.com/home/services/contents/sunshine_energy.shtml

2-12-04 California, Audubon Center Green Energy Design

The conservation organization's Audubon Center has received a Platinum Rating from the U.S. Green Building Council. The 5,023 square foot building is the first in Los Angeles to be entirely powered by on-site solar systems, functioning entirely off the grid. Said Christine Ervin, President and CEO of the U.S. Green Building Council, "In a city like Los Angeles, embracing sustainable design is one of the most responsible actions you can take. As a premier example of green architecture, the Audubon Center will provide inspiration and guidance for others looking to go green." Story at SolarAccess:
<http://www.solaraccess.com/news/story?storyid=6089>

2-12-04 California, PG&E SelfGen PV Program Fully Subscribed

Noted in Solar e-Clips, PG&E's Self Generation Rebate Program, providing incentives of \$4.50/watt for PV projects larger than 30 kW, has fully subscribed available 2004 funding, and there's a waiting list. See In Brief section at:
<http://www.californiasolarcenter.org/solareclips/solareclips.html>
PG&E Self-Generation Incentive Program: <http://www.pge.com/selfgen/>

2-12-04 60 MW of Grid-connected PV in California

Also at Solar e-Clips, see the In Brief article about the amount of grid-connected PV that was installed in California in 2003, including a link to the PDF of Excel file at:
<http://www.californiasolarcenter.org/solareclips/solareclips.html>

2-12-04 More in Spire Solar's PV System for Backup Power

Coverage, including photo, of the 38-kW array installed by Spire Solar Chicago for Chicago's Office of Emergency Management and Communications is at SolarAccess:
<http://www.solaraccess.com/news/story?storyid=6080>

2-12-04 To our mail list: Yesterday, some of our recipients of the NCPV Hotline email received at least 3 copies of the email. Our computer center experts tell us that our email was "spoofed" twice yesterday, and the spoof came from a verizon.net email address. We stopped the emails for a time to track down the cause. If this happens again, we will certainly continue to look into it. Thanks to those who alerted us.

2-11-04 Spire Solar PV in Chicago

Spire Corporation announced that the Chicago Office of Emergency Management and Communications now has a 10-kW solar PV backup system in addition to the 38-kW system installed by Spire Solar Chicago in early 2002. A commercial battery system donated by ComEd stores the backup power supply. Said Executive Vice President and General Manager of Spire Solar, Steve Hogan, "Today, going without power even for a few minutes can cost millions. Solar backup is clean, quiet and low maintenance. Best of all, it supplies a reliable, sustainable source of power in the event of an emergency." Story at:
http://biz.yahoo.com/bw/040210/105643_1.html
Spire Solar Chicago: <http://www.spirelarchicago.com/index.html>

2-11-04 Midwest Research Institute Contract Extension to Manage NREL

Midwest Research Institute in Kansas City, Missouri, has received a 4-year contract extension to manage and operate the U.S. DOE's National Renewable Energy Laboratory. MRI is teamed with Battelle Memorial Institute of Columbus, Ohio, to manage and operate the Lab. Press at:
http://www.nrel.gov/news/press/2004/1104_contract_extension.html

2-11-04 U.S., Comprehensive Energy Bill

According to reports in Platts Inside Energy (subscription), Senate Republicans decided Tuesday not to attach a revised energy bill to the transportation bill now on the Senate floor. Other options, including a leaner version of the bill, are on the table. More information is available on the regular newswires.

2-11-04 Carmanah Solar-powered LED Crosswalk

Carmanah Technologies Corporation is introducing the Model R820 Pedestrian Beacon, a solar-powered LED crosswalk signal, to the North American market. Story at Solarbuzz:
<http://www.solarbuzz.com/News/NewsNAPT62.htm>
More information at: <http://www.roadlights.com/>

2-11-04 The Return of the Solar Cat Book

Try "look inside the book" for more on Jim Augustyn's latest book at:
<http://www.solarcat.com/bigblack/index.htm>

2-10-04 Siemens Organic Solar Cells

Photo coverage of Siemens organic solar cells from January can be found at:
<http://tinyurl.com/ywnj9>

2-10-04 New Jersey Renewables, Solicitation

The Office of Clean Energy within the Board of Public Utilities announced it is continuing its program to fund development of renewable energy businesses, renewable technologies, and market infrastructure in New Jersey. The program will be open to applicants that seek funding

for research, business development, commercialization, and demonstration of innovative products or services that advance the delivery of renewable energy systems to the marketplace. More information and link to solicitation at Solarbuzz:
<http://www.solarbuzz.com/News/NewsNAGO157.htm>

2-10-04 Requests for Proposals (Source: the Green Power Network)

PacifiCorp 1,100 MW Renewable Resource RFP (RFP 2003B) - Deadline March 9, 2004
<http://www.pacificorp.com/Navigation/Navigation31203.html>
Renewable Hawaii, Inc. Renewable Energy RFP - Deadline April 22, 2004
<http://www.renewablehawaii.com/RenewableHawaii/home/>
(PDF 525 KB) [Download Arcobat Reader](#)

2-10-04 Arizona Renewables

Today, the Arizona Corporation Commission will consider whether to stay with the original goal for the Environmental Portfolio Standard to provide 1.1% of electricity from renewables by 2007. See "Sunrise for Solar" in the Arizona Republic:
<http://www.azcentral.com/arizonarepublic/opinions/articles/0209mon1-09.html>

2-10-04 Colorado Renewables Standard

More on passage of the Colorado renewables bill in the House can be found at:
<http://www.coloradodaily.com/articles/2004/02/10/news/news03.txt>

2-9-04 Spheral Solar, ATS Automation Systems 3rd Quarter Results

From the Press Release February 5: Solar Group achieved revenue growth of 46% to \$27.5 million compared to \$18.8 million a year ago, as the Company's Photowatt International operations benefited from strong demand in Europe. The Company also announced a four month delay in the start up of its first Spheral Solar(TM) (Spheral Solar™ is a trademark of the Automation Tooling Systems Inc.) Power manufacturing facility due to construction and development challenges, and a \$10 million to \$15 million increase in the total estimated start-up investment due to strategic decisions to internalize production of certain critical processes, reduce launch risks and make investments that are expected to facilitate future capacity expansion of the factory. "Spheral Solar(TM) Power is an ambitious project with tremendous value creation potential," said Mr. Woerner. "In spite of the delay and additional investments, we're making good progress on many fronts in the commercialization plan and continue to expect attractive returns from this major growth initiative! ." Information at:
<http://www.atsautomation.com/profile/news/2003/020504.htm>

2-9-04 Process Technology for Thinner, Cheaper Solar Cells

Results from a joint project among Shell Solar, the Fraunhofer Institute for Solar Energy, and other research institutes, will feed into the development of a third production line of Shell Solar's solar cell factory in Gelsenkirchen. Story at Solarbuzz:
<http://www.solarbuzz.com/News/NewsEUMA41.htm>

2-9-04 More on Konarka's New PV Prototype

Additional coverage of Konarka's prototype flexible solar cell can be found at Solar Access:
<http://www.solaraccess.com/news/story?storyid=6054>
Konarka: <http://www.solaraccess.com/marketplace/compdetail?compid=885>

2-9-04 7th Annual "Investing in the Alternative Energy Industry" Conference

The New York Society of Security Analysts will present its 7th Annual Investing in the Alternative Energy Industry Conference 25 February 2004 in New York. The conference will offer investment professionals the chance to listen in as top executives at leading alternative

energy companies discuss the future of their industry and how their companies are positioned for growth and profitability. Story at: http://biz.yahoo.com/bw/040209/95713_1.html

2-9-04 Germany, Largest Solar PV Rooftop in Mainz

A new 1,800-square-meters solar PV system with a peak capacity of 222 kW was inaugurated in Mainz, Germany on the roof of the Kayser building. Juwi GmbH indicates it wants to combine roofing projects with solar electricity generation to establish a unique offer across Germany.

Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR139.htm>

Juwi: <http://www.juwi.de/international/index.htm>

2-9-04 Massachusetts, 130 New PV Systems Under Contract in 2003 (Jackie Abramian, JA Associates news brief)

Massachusetts communities boosted solar installations by 35% in 2003 with 130 new PV systems reported under contract, 63 of which are installed and operating. The increase in PV was made possible through the Massachusetts Renewable Energy Trust's Solar to Market Initiative, which provides grants for PV installations in Massachusetts. See more at Massachusetts Technology Collaborative Renewable Energy Trust:

http://www.mtpc.org/RenewableEnergy/Solar_to_Market.htm

2-9-04 California, PIER-EA RFP

The California Energy Commission's Public Interest Energy Research-Environmental Area (PIER-EA) Program is requesting proposals for research projects through its Environmental Exploratory Grant Program. The goal of the program is to support early development of promising, new scientific concepts that have the potential to impact the way we understand and/or address energy-related environmental issues. The program is made up of 6 subject areas, including renewable energy. Information at:

<http://www.energy.ca.gov/contracts/index.html#PIER>

2-9-04 Pennsylvania, Energy Harvest Initiative

\$5M in Energy Harvest Grants will go to 32 recipients, and leverage another \$13M in private funds, to promote advanced energy technologies. Story at:

http://biz.yahoo.com/prnews/040209/phm010_1.html

<http://www.dep.state.pa.us/>

Related story: http://biz.yahoo.com/prnews/040209/phm009_1.html

2-9-04 FY 05 U.S. DOE EERE Budget Documents

Budget documents from DOE's Energy Efficiency & Renewable Energy Office can be found at:

http://www.eere.energy.gov/office_eere/budget.html. See related story on EERE FY 05 budgets at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6057>

2-9-04 U.S., Comprehensive Energy Bill

E&E Daily (subscription) reports that either the renewable fuels title of the energy bill, or perhaps Senator Domenici's leaner version of the energy bill, may appear in Senate floor amendments to the Transportation Equity Act this week. The House strategy is likely to add the House version of the energy bill to the transportation bill.

2-9-04 Universal Communication Systems Agreement with Digital Light

Universal Communication Systems, Inc. announced that the company subsidiary Millennium Electric TOU Ltd has signed an agreement with Digital Light Inc. to develop lighting products using Super Bright LEDs energized by PV solar panels to be supplied by Millennium. Story at:

http://biz.yahoo.com/bw/040209/85103_1.html

Digital Light: <http://www.eDigitalLight.com/>

Millennium: <http://www.millennium-electric-inc.com/>
Universal Communication Systems: <http://www.ucsy.com/>

2-9-04 PV in Oman

Australia-based Solar Sales recently completed a series of remote solar PV applications for the local telecommunications company Omantel. All systems used AstroPower AP-120, 120W modules. See story and photos at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6049>

2-9-04 Million Solar Roofs Partnership, Northern Colorado

In Northern Colorado, the Million Solar Roofs partnership will be working to improve awareness of solar energy alternatives and to create a plan to remove political, economic and social barriers, which prevent residents from pursuing solar energy alternatives. Story at Solar Access:

<http://www.solaraccess.com/news/story?storyid=6055>

2-9-04 Colorado Renewable Energy Standard (Craig Cox)

By a vote of 39-21, the Colorado House of Representatives this morning passed HB 1273, which establishes a renewable energy standard in Colorado. The legislation now moves to the Colorado Senate. More on HB 1273:

<http://www.newenergytechnologies.org/colorado/news/2004-1-28.htm>

2-9-04 Mach One Agreement with SHEC Labs

Mach One Corporation has entered into an agreement with Solar Hydrogen Energy Corporation in which Mach One will commit to assist SHEC in securing up to \$10 million in development capital. SHEC's primary focus is to develop cost effective, clean and renewable processes to produce hydrogen from water using sunlight. SHEC Labs has developed a solar concentrator technology for its proprietary hydrogen process. Story at: <http://tinyurl.com/2ba5o>

SHEC Labs: <http://www.shec-labs.com/>

2-6-04 Daystar Technologies

According to this February 3 article, DayStar Technologies Inc. expects to begin trading its stock in a unit offering that includes one share of common stock, plus Class A and B warrants. The DayStar offering should bring in from \$8.9M to \$13.1M, which the company says will be used for research and development, personnel expenses, capital equipment, and working capital. More details at: <http://www.sacbee.com/content/business/story/8207282p-9138399c.html>

DayStar Technologies: <http://daystartech.com/index.html>
<http://tinyurl.com/3a9p5>

2-6-04 New Report, "Hydrogen Economy Offers Major Opportunities But Faces Considerable Hurdles"

According to a new National Academies Report, a transition to hydrogen as a major fuel in the next 50 years could significantly change the U.S. energy economy, reducing air emissions and expanding domestic energy resources, but technical, economic, and infrastructure barriers need to be overcome. Part of the press release on the report says, "The DOE program should accelerate development and early evaluation of carbon capture and storage technologies and further investigate production methods that do not result in emissions, such as wind, the sun, and nuclear heat processes...". Press at:

<http://www4.nationalacademies.org/news.nsf/isbn/0309091632?OpenDocument>

More at SolarAccess: <http://www.solaraccess.com/news/story?storyid=6040>

New York Times: <http://tinyurl.com/ytzx4>

2-6-04 Angola Solar Pilot

A \$250,000 pilot project demonstrating how solar energy can play a role in the reconstruction of rural communities has been launched in Angola. BP Solar will take its solar technology to the village of Paranhos in Bengo province and install solar panels to provide light and power. BP Solar will design, supply, and install the solar systems and teach villagers how to use and maintain the equipment. Story at:

<http://www.miningweekly.co.za/min/news/breaking/?show=46456>

2-5-04 ECD Management Shifts

Energy Conversion Devices, Inc., announced that Stanford R. Ovshinsky, Iris M. Ovshinsky, Robert C. Stempel, Umberto Colombo, Walter J. McCarthy, Jr., Florence I. Metz, and Stanley K. Stynes, all of whom are current directors, have been nominated for election to the Board of Directors. Also, the Board of Directors has named Robert C. Stempel, Chairman of ECD Ovonics since December 1995, to the additional position of Chief Executive Officer. Mr. Ovshinsky continues as President and was named to the new position of Chief Technology Officer. James R. Metzger continues his role of Chief Operating Officer and was named Executive Vice President. Information at: http://biz.yahoo.com/prnews/040205/deth015_1.html

2-5-04 Solar PV Racking System

Uni-Rac announced that installers of SunFrame can now accommodate all 100-W and larger PV modules manufactured by AstroPower, BP Solar, Evergreen, and Kyocera as well as the ASE 300 from RWE Schott Solar. More at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPT61.htm>

UniRac: <http://www.unirac.com/>

2-5-04 Renewable Energy Finance Forum

The American Council On Renewable Energy and Euromoney Energy Events are organizing the first Renewable Energy Finance Forum – Wall Street. The aim of the event is to show the opportunities that exist in the RE finance market worldwide, and to bridge between the U.S. and European RE finance communities. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6027>

ACORE: <http://www.americanrenewables.org/>

2-5-04 WorldWater MOU with the Sandi Group

World Water Corporation has signed a memorandum of understanding with The Sandi Group, Inc. to form a Joint Venture to solicit contracts in Iraq in the areas of Public Works and Water and Power Sector Rehabilitation. The two companies will bid on contracts that utilize WorldWater's proprietary solar power and water management services, technology, and products. Story at: http://biz.yahoo.com/bw/040205/55082_1.html

2-5-04 Colorado, Solar Buildings Partnership

Eco-Build has joined with Altair Energy to provide complete grid-tied and battery backup solar PV systems to residential and commercial customers throughout Colorado. More details at

SolarAccess: <http://www.solaraccess.com/news/story?storyid=6026>

Altair: <http://www.solaraccess.com/marketplace/compdetail?compid=508>

Eco-Build: http://www.eco-build.com/1_Home/index.htm

2-5-04 Australia, Renewable Energy Funds

The 11th funding round of Australia's New South Wales Renewable Investment Program is open for project bids. Funding is available from the NSW Government for renewable energy projects that are nearing commercial realization. Information at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6024>

2-5-04 SunAmp Power Project in Arizona

Southern States Power Company, Inc. announced that its subsidiary company, SunAmp Power Company, Inc. has completed the Security and Safety Lighting for Arizona's National Guard. The Arizona National Guard's Camp Navajo contracted with SunAmp to provide solar PV security lighting using BP Solar panels. The 22 Cobrahead streetlights for Camp Navajo are powered by dual BP Solar 75-W solar panel modules. Story at: <http://biz.yahoo.com/pz/040204/52061.html>

2-5-04 Joe Barton Contender for House Energy & Commerce Chair

Texas Congressman Joe Barton is a leading contender to chair the House Energy and Commerce Committee, following the resignation of Rep. Bill Tauzin of Louisiana. Story at: <http://tinyurl.com/2b3qa>

2-5-04 Link to News from Konarka on PV Efficiency

See Konarka News at: http://www.konarkatech.com/news_press_newlevel-eff.php

2-5-04 More Coverage of Connecticut's Largest Solar Array, with Photo

See SolarAccess at: <http://www.solaraccess.com/news/index.jsp>

2-5-04 More coverage of EnviroMission Solar Tower

See SolarAccess at: <http://www.solaraccess.com/news/story?storyid=6032>
EnviroMission: <http://www.enviromission.com.au/>

2-4-04 Charis Pricing for New Solar Panel

Charis Energy Development, a subsidiary of Aquentium, Inc., said the company will be announcing its pricing for their newly invented solar panel before the end of January. Said Aquentium President Mark Taggatz, "We anticipate offering a price per watt that will be extremely competitive in the marketplace." Story at: http://biz.yahoo.com/prnews/040203/latu115_1.html

2-4-04 Konarka's New Levels of PV Efficiency (Joe Romano)

Konarka Technologies, Inc., announced it has developed prototypes of its PV cells that have achieved more the 7% efficiency. Konarka is focused on the development of what it terms "third generation" cells that are lightweight, flexible and more versatile than previous generations of products. Says Howard Berke, Chairman, "Konarka's chemistry-based cells represent a new breed of coatable, plastic, flexible photovoltaics that can be used in many applications where traditional photovoltaics can't compete." The company will have pilot-scale production later this year and will begin scaling up production capacity in 2005. Konarka:

http://www.konarkatech.com/news_press.php

Press Contact: Joe Romano, Partner, HighGround, Inc. at 781-279-1320 x 208 or jromano@highgroundinc.com

2-4-04 Connecticut, State's Largest Solar Energy Project

Connecticut's largest solar electric system, a 23.1 kW array on the roof of the maintenance garage at CTRANSPORT, was dedicated February 3. The project was made possible with the support of the Connecticut Clean Energy Fund, which covered about 40% of the installation cost. The PV array was manufactured by PowerLight Corporation and installed by Select Energy Services. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR329.htm>
PowerLight: <http://www.powerlight.com/>

2-4-04 More on Rhode Island Renewable Energy Fund

See the attached link for RFPs, in particular Solar Photovoltaic Funding:

<http://www.riseo.state.ri.us/riref.html>

2-4-04 California, Renewable Energy Quarterly Report (Nancy Hassman)

The Renewable Energy Program, Quarterly Report to the Legislature is available on line at:

<http://www.energy.ca.gov/renewables/documents/legislature.html>

2-4-04 India, Mithradam Program (George Peter)

The Renewable Energy Centre Mithradam, successfully completed a partnership project in solar PV and fuel cells with the Kerschensteiner School in Germany. Information at:

<http://www.mithradham.org>

2-4-04 U.S. Comprehensive Energy Bill

Energy & Environment Daily (subscription) reports that Senate leaders have developed a plan to use a scaled-back energy bill as an amendment to any of 3 bills expected to go before the Senate this month. Also, an idea has been put forward to pass the existing energy bill with companion legislation that makes changes to it. The House leaders say no compromise on what has been agreed to. Meanwhile, Energy & Environment Daily also reports that Representative Billy Tauzin resigned his position as chairman of the House Energy and Commerce Committee. (Energy & Environment Daily: E-mail: pubs@eenews.net *Phone: 202-628-6500).

2-4-04 Clean Energy States Alliance (Kevin Eber, EERE Network News)

Twelve states in the U.S. have established funds to promote renewable energy and clean energy technologies. The Clean Energy States Alliance is a non-profit project to provide information and technical services to these funds and to work with them to build and expand clean energy markets in the U.S. More information at: <http://www.cleanenergyfunds.org/>
EERE News: <http://www.eere.energy.gov/news/>

2-4-04 More on Solar Tower Development, EnviroMission:

http://biz.yahoo.com/prnews/040204/lnw013_1.html

2-3-04 Eikos \$1M Investment to Develop Carbon Nanotube Coating Technologies

Eikos Inc., has received a \$1M investment from Itochu international, Inc., and will further develop high-transparency conductive films for a variety of markets including flat-panel displays, solar energy, and OLED lighting. Story at: http://biz.yahoo.com/bw/040202/25709_1.html. In addition, Eikos is to receive a \$1M government contract for transparent conductive coating research. Story at: http://biz.yahoo.com/bw/040202/25685_1.html

Eikos: <http://www.eikos.com/>

2-3-04 RWE Schott Solar Contract with Phonix SonnenStrom

RWE Schott Solar signed a dealer contract with Phonix SonnenStrom at the end of last year. RWE says that the move is designed to build the company's market share beyond its current 25% of the German market. The partnership will market RWE's 200 W module, the ASE-200-GT-FT/TE. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUCO55.htm>

RWE Schott Solar: <http://www.rweschottsolar.com/>

Phonix SonnenStrom AG: <http://www.phoenixsolar.de/>

2-3-04 California, Solar-powered Homes

Premier Homes has started construction on a Sacramento-area housing subdivision made up of energy efficient homes. The 95 homes in the Premier Gardens subdivision will have standard

features such as solar-power-generating roof tiles and other energy-efficient designs. Story through Solarbuzz at: <http://www.bizjournals.com/sacramento/stories/2004/02/02/focus3.html>

2-3-04 Kyocera Solar-powered Vaccine Refrigerators

Kyocera Solar has expanded its VaccPak line of solar-powered vaccine refrigeration products to include a larger capacity category. The new VaccPak XL6000 is the 2nd model in the series to be approved by the World Health Organization. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPT60.htm>

Kyocera: <http://www.kyocerasolar.com/>

2-3-04 Florida, Solar Lighting at Bus Shelters

Three-thousand solar-powered bus shelters will be installed throughout Miami-Dade County, Florida, under a concession obtained by the Spanish company, Cemusa. BP Solar will supply the PV panels. See story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR328.htm>

Cemusa: http://www.cemusa.com/web_ingles/html/index.htm

BP Solar: <http://www.bpsolar.com/>

2-3-04 Sustainable Energy Coalition (K. Bossong)

The Sustainable Energy Coalition has vowed to work to reverse the reductions in the White House FY 2005 budget request for renewable energy and energy efficiency programs. Says the Coalition, while the DOE's overall EERE budget is reduced by 2.3%, significant increases in funding for weatherization and hydrogen mask far deeper cuts in a number of core programs. (Source: e-mail newsletter, 2-2-04) Sustainable Energy Coalition:

<http://www.sustainableenergy.org/>

See also SolarAccess article at: <http://www.solaraccess.com/news/story?storyid=6008>

2-3-04 Silicon Process for PV Cells

A new electrochemical process for the extraction of silicon has been developed by chemists at Wuhan University in China. More on this development at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6000>

2-3-04 U.S. Appropriations Hearings

A hearing in the House of Representatives Appropriations Committee on Renewable Energy, Energy & Water Appropriations, is scheduled for March 17 at 10am.

2-3-04 Breakthrough Answer to Global Warming?

Robert R. Holcomb, M.D., Ph.D., an assistant professor at Vanderbilt University School of Medicine unveiled a new technology called Electron Stream Carbon Dioxide Reduction (ESCO2R), called the Carbon Dioxide Converter, which permanently splits the molecular structure of carbon dioxide into its basic elements. The converter functions in a similar way for other greenhouse gases, such as sulfur dioxide. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=6001>

2-3-04 More on AstroPower's Future?

AstroPower Inc. has filed for bankruptcy as part of an offer by GE to buy most of the company's assets for \$15 M. Story at:

<http://www.delawareonline.com/newsjournal/local/2004/02/03astropowerfiles.html>

More Sources for AstroPower Coverage: http://www.astropower.com/press_releases.htm

<http://www.solaraccess.com/news/story?storyid=5999>

<http://www.solarbuzz.com/News/NewsNACO181.htm>

2-3-04 Australia, EnviroMission Moving Forward on Solar Power Station

EnviroMission and Leighton Contractors Pty Ltd said that with the pre-feasibility study completed the solar power station planned for Australia would move towards full commercial development. Said Roger Davey, EnviroMission chief executive, an independent party will now make a detailed examination of the financial structuring of the project. EnviroMission aims to build a 1-km-high solar tower power station 25 km north of Mildura in NSW, surrounded by a "greenhouse skirt" of solar collector panels 7 km wide. The electricity would be generated by 32 wind turbines driven by the mass of moving air under the huge transparent collector and the updraft effect created by the huge tower. Story at:

<http://www.theage.com.au/articles/2004/02/03/1075776058432.html>

2-2-04 AstroPower Asset Sale to GE Energy

AstroPower announced that it has reached an agreement to sell certain of its U.S. business assets to GE Energy. AstroPower has filed a petition for reorganization under Chapter 11 of the Bankruptcy Code. The transaction with GE Energy will be subject to competitive bidding and Bankruptcy Court approval. The acquisition represents a continuation of GE Energy's strategy of developing a renewable energy portfolio. Story at:

http://biz.yahoo.com/bw/040201/15069_1.html

2-2-04 President's FY 2005 Budget

See this link, under 'Energy Efficiency and Renewable Energy' for the President's FY 2005 Solar budget (starting on page 87): <http://www.cfo.doe.gov/budget/05budget/index.htm>

2-2-04 Germany, Solon Plans for 18-MW Capacity (Michael Schmela)

Plans for a PV system with an 18 MW capacity in southern Germany are being developed. The project is led by PV module manufacturer Solon AG under contract to as yet anonymous investors, and construction is expected to start in July. See the story at Photon International:

<http://www.photon-magazine.com/>

2-2-04 Kyocera Solar Opens Office

Kyocera Solar, Inc. announced it has hired Gene Bertsche to manage its new sales office in Middleton Springs, Vermont. He will serve the northeastern U.S. and parts of Canada from the office. Story at Solarbuzz: <http://www.solarbuzz.com/news/newsNACO180.htm>

Kyocera Solar: <http://www.kyocerasolar.com/>

2-2-04 Advent Solar Relocation, and New Board Member

Advent Solar has relocated to the Albuquerque Technology Incubator where it has established laboratory and office facilities. The Incubator serves as an interim facility while the company evaluates potential sites for its production plant. Also, Robert O. Johnson has been elected to the Board of Directors, bringing over 25 years of PV experience in his previous role as Vice President of Strategies Unlimited. Story at Solarbuzz:

<http://www.solarbuzz.com/news/newsNACO179.htm>

2-2-04 Global Electric Licensing Rights

Whistler Investments, Inc., (name change pending to Global Electric) announced it has an agreement with RV Systems, Inc., for the exclusive worldwide rights to the advanced Lithium/Solar power system technology developed by Chaz Haba, for application to residential and commercial properties. Says Haba, President of RV Systems, "The purpose of the Lithium Solar House project is to provide a test bed for an alternative source of power to the home, not connected to the power grid. The power source will be solar panels for charging the lithium batteries. Story at: <http://biz.yahoo.com/pz/040202/51822.html>

2-2-04 Colorado, Renewable Standard Introduced

A bipartisan group of Colorado legislators introduced a bill for a renewable energy standard of 500 MW of renewable energy capacity by 2006, 900 by 2010, and 1,800 by 2020. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=5994>

2-2-04 California Renewable Portfolio Standard Guidelines

The California Energy Commission's Renewables Committee will conduct a hearing on February 5, 2004, to solicit input on proposed guidelines for implementing California's Renewables Portfolio Standard. The notice of hearing and details about listening in is on-line at <http://www.energy.ca.gov/portfolio/>

2-2-04 Adam Browning, Vote Solar Initiative

Read about Adam Browning, and the Vote Solar Initiative at: <http://www.gristmagazine.com/dearmer/browning012604.asp>, from net metering to legislation to photovoltaics, "one of the most reliable sources of energy ever invented".

2-2-04 Texaco Ovonic on HaveBlue's Hydrogen Team

HaveBlue LLC announced it has reached an agreement with Texaco Ovonic Hydrogen Systems LLC that calls for the company to provide the developmental metal-hydride hydrogen storage system for HaveBlue's X/V-1 marine hydrogen fuel technology demonstration vessel.

HaveBlue's patented propulsion and generation system produces renewable hydrogen from purified seawater using clean power sources such as solar panels, wind generators, and regenerative electric drive motors. Story at: http://www.powerpulse.net/cgi-bin/displaystory_new.pl?id=10086

HaveBlue: <http://www.haveblue.com/>
<http://www.haveblue.com/xv1/index.htm>

2-2-04 Sri Lanka, National Solar Program

The Solar Industries Association (SIA) is calling for a national policy on solar energy. Said SIA President Pradip Jayawardena, "Sri Lanka is a global leader in providing solar power to the masses on a per capita basis." He described his goal as providing electricity to 100% of the country. The government funded Renewable Energy for Rural Economic Development (RERED) programme will bear the capital cost on behalf of the end user. Story at: <http://www.sundayobserver.lk/2004/02/01/bus04.html>

JANUARY

1-30-04 U.S. Comprehensive Energy Bill

The comprehensive energy bill is once again under debate, with an array of opinions from renewable energy, energy efficiency, and environmental communities. See story at

SolarAccess: <http://www.solaraccess.com/news/story?storyid=5996>

Senate Democrats are identifying sections of the bill to move as standalone legislation or riders, while Senate Republicans are still working to change the bill just enough to gain enough votes to pass the bill. And, there is some discussion about finding ways to cut the bill's price tag.

<http://tinyurl.com/yqtqz>

1-30-04 U.S., President's Fiscal-Year 2005 Budget

The President's FY 2005 budget will be released on Monday, February 2. We will provide links to the solar budgets as soon as they are available.

1-30-04 New Inverter

The UL listed StarInverter PVP1100 has been introduced by PV Powered. The PVP1100 meets UL 1741, IEEE 1547, IEEE 929, IEEE 519 standards and has a 10-year warranty. Information at

Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPT59.htm>

PV Powered: <http://www.pvpowered.com/>

1-30-04 Western Australia Solar Site

International scientists will visit mid-west Western Australia as part of a bid to be chosen for a new PV solar power system. The Mid-West Development Commission has proposed Perenjori as a site. The International Energy Agency Task Force Eight is studying the PV systems, and will visit Perenjori next week. Story at: <http://www.abc.net.au/news/newsitems/s1034675.htm>

1-30-04 Canada, University of Waterloo's Solar-powered Pub

A 36-panel array of PV panels has been installed on the roof of Federation Hall, a student-run pub at the University of Waterloo. The array is a result of efforts by the Solar Technology Education Project, a student-led volunteer team with a goal to raise awareness about renewable energies. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=5974>

1-30-04 Iowa Solar Energy Program

Muscatine Power & Water announced the establishment of "Solar Muscatine", their alternative energy program. Customers can volunteer to pay \$3, \$5, or \$7 extra on their monthly residential utility bill to help pay for purchase and installation of solar arrays in Muscatine. MP&W is building a 2.5 kW solar array at its headquarters to get the program started. Story through

Solarbuzz at: <http://www.muscatinejournal.com/articles/2004/01/28/news/news3.txt>

1-29-04 Link for Workshop on Life Cycle Analysis and Recycling of Solar Modules (Rebekka Mattyasovszky)

The announcement and program for the "Workshop on Life Cycle Analysis and Recycling of Solar Modules - The "Waste Challenge", 18 and 19 March 2004 in Brussels, Belgium is

available at: <http://streference.jrc.cec.eu.int/html/Events.htm>

1-29-04 Spire Corporation Maintains Nasdaq Market Listing

Spire Corporation announced that as a result of the recent filing of its SEC Form 10-QSB for the 3rd quarter 2003, Nasdaq has notified the company that Spire Corporation will resume trading under the trading symbol SPIR on January 30, 2004. Story at:

http://biz.yahoo.com/bw/040129/295231_1.html

1-29-04 WorldWater Corp. Accomplishments

WorldWater Corp. announced the Company's most significant accomplishments and milestones achieved during 2003, including installation of the largest solar irrigation pumping system in the world, installation of the world's largest solar-powered refrigeration compressor system, participation in a successful bid to supply the largest PV installation on a college campus in the U.S., and others. See story at: http://biz.yahoo.com/bw/040129/295277_1.html
WorldWater Corporation: <http://www.worldwater.com/>

Also, WorldWater announced it has already received sales orders for completion in 2004 in excess of \$4M, an increase of over 300% from estimated revenue in 2003. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO177.htm>

1-29-04 California, Carmanah Solar Airport Lighting Project

Carmanah Technologies is installing 560 units of its Model 601 solar-powered LED lights at the Truckee Tahoe Airport in California. Carmanah officially launched its aviation products less and a year ago, and has over 5,000 lights installed at airports in 30 countries. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR327.htm>
SolarAirportLights: <http://www.solarairportlights.com/>

1-29-04 California, High Desert Solar Energy - Solar Thermal and Solar Electric

In the High Desert, 3 solar-electric generating systems produce a total of 354 MW. And, a new PV power plant is on the drawing boards. TrueSolar Solutions and Global Solar Energy, subsidiaries of UniSource Energy Corp. in Tucson, Arizona plan to build the world's largest PV generating station at a 40-acre site near Daggett. This story covers solar plants, RPS, solar's future, etc., at: <http://www.sbsun.com/Stories/0,1413,208~12588~1918701,00.html>

1-29-04 Arizona, Solar Electric Power for New Homes

Edwards Design Group, Inc. and American Solar Electric, Inc. are bringing grid-connected PV power systems to several new homes. Commitments have been made for 5 new projects in Scottsdale, Cave Creek, and North Phoenix. Each PV system will have an array power rating of 5 kWp, and 50% of the installed system cost will be paid for through the recently revised EPS Credit Purchase Program. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR325.htm>
American Solar Electric: <http://www.americanpv.com/>

1-29-04 ImaginIt Inc. New Products

ImaginIt Inc. announced 3 new solar electric product lines: eBuildings(TM), Solar Street Furniture(TM), and Sun & Sea PV(TM) (eBuildings™, Solar Street Furniture™, and Sun & Sea PV™ trademarks of the ImaginIt Inc.). The eBuildings(TM) product line includes products such as solar electric roof systems, façade systems, skylight systems, and awning systems. Story at: http://biz.yahoo.com/prnews/040128/law102_1.html
ImaginIt, Inc.: <http://www.imaginlt.cc/>

1-29-04 SunPower Recognition

SunPower Corp. announced that analogZONE (an on-line engineering magazine) has selected the A-300 silicon solar cell as a winner of its "Product of the Year" award in the "Green Technology" category. Story at: http://biz.yahoo.com/bw/040128/285627_1.html
SunPower: <http://www.sunpowercorp.com/>
analogZONE: <http://www.analogzone.com/>

1-29-04 U.S. Comprehensive Energy Bill

Congressional leaders are looking at ways to possibly break up the draft energy bill into smaller sections that could pass as stand-alone legislation.

1-28-04 Workshop on Life Cycle Analysis and Recycling of Solar Modules (Rebekka Mattyasovszky)

The European Commission, Institute for Environment and Sustainability, Renewable Energies Unit is holding a "Workshop on Life Cycle Analysis and Recycling of Solar Modules, The 'Waste Challenge'", 18 and 19 March 2004 in Brussels, Belgium. The aim of the workshop is to give an overview about the current scientific and political discussion, identify problems, and discuss possible solutions. For the programme and registration form, contact:

Rebekka.Mattyasovszky@cec.eu.int

1-28-04 Solar Power and Government Subsidies, Frost & Sullivan Analysis

Says Frost & Sullivan Industry Analyst, Patricia Seifert, "Government subsidies are expected to facilitate mass production and, thereby, drive prices down sooner. Subsidies will be necessary for another three to five years until solar power can compete with more common energy sources such as natural gas or oil." See SolarAccess:

<http://www.solaraccess.com/news/story?storyid=5975>

<http://www.energy.frost.com/prod/servlet/vp-portal-home.pag?vpid=2843800>

1-28-04 European Conference for Renewable Energy Conclusions

To download a copy of the conclusions from this conference - Intelligent Policy Options - 19-21 January 2004 in Berlin, go to: <http://www.epia.org/07news/news.asp>

1-28-04 Fronius Inverters UL Listing

Fronius USA Solar Electronics Division has received Underwriter Listing for their FRONIUS IG 3000, IG 2000, and IG 2500-LV grid-tied inverters. Fronius has also begun its installer and dealer training at their Santa Barbara, California office. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPT57.htm>

Fronius: <http://www.fronius.com/>

1-28-04 Solar Hydrogen

More on Stuart Licht's team demonstrating a solar-powered way to produce hydrogen from water can be found at CNN Yellowbrix: <http://tinyurl.com/2jqba>

1-28-04 Coverage of Solar-Powered Mars Rovers

Additional coverage of the Mars III-V solar cells can be found at Compound Semiconductor:

<http://www.compoundsemiconductor.net/articles/news/8/1/27/1> and, SpaceDaily:

<http://www.spacedaily.com/news/solarcell-04a.html>

See also EERE Network News "NASA Delivers Solar-Powered Vehicles to Mars" see Archives, January 28 (Kevin Eber) at: <http://www.eere.energy.gov/news/>

1-28-04 Coverage of the Apollo Project

Additional opinions on the Apollo Project can be found at:

<http://www.chron.com/cs/CDA/story.hts/editorial/2371889>

1-27-04 Rhode Island Solar Incentives RFP

The Rhode Island Renewable Energy Fund is seeking to support installation of PV in excess of 5 kW AC on commercial, industrial, and institutional buildings in Rhode Island. Phase 1 of the RFP has a deadline for project submissions of 21 April 2004. More on this RFP, and the link to the RFP, at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR323.htm>

1-27-04 Burghausen, Germany Solar Grade Silicon

Wacker has developed a process for making solar-grade silicon at its main plant in Burghausen. Says Ewald Schindlbeck, "Of course some competitors may say it's not worth our while but we have given a real commitment that we will invest specifically for PV (photovoltaic cells)". Other companies working in this area are Joint Solar Silicon (a joint venture between Degussa and Deutsche Solar), and Hemlock (a joint venture among Japan's Shin-Etsu and Mitsubishi and Dow Corning). Elkem says it has found a new refining method and plans to make an announcement this month. More on these developments at various sources:

http://www.dailytimes.com.pk/default.asp?page=story_24-1-2004_pg5_15

<http://www.forbes.com/business/newswire/2004/01/25/rtr1226018.html>

http://www.usatoday.com/tech/news/2004-01-26-solar-cells_x.htm

1-27-04 Sunways Solar Window Blinds

Sunways has launched a new building use for solar cells - "Solar Blinds". They protect against bad weather, sun, and burglary as well as produce electricity with their integrated solar cells.

More at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPT15.htm>

Sunways: <http://www.sunways.de/en/index.php>

1-27-04 Japan's Largest Solar Power Generation Facility

The Tokyo Metropolitan Government announced construction of Japan's first MW class solar power generating facility at the Asaka Water Purification Plant. Story at:

<http://neasia.nikkeibp.com/wcs/leaf?CID=onair/asabt/news/287412>

1-27-04 PV Activities In Japan (Resources Total System, Co., Ltd., Osamu Ikki)

The latest issue of "PV Activities in Japan" covers Japan's FY 2004 PV-related budget in detail, and gives highlights of PV activities from FY 2003. Also included are the latest activities of government, suppliers, and users. For example, Showa Shell Sekiyu is establishing Shell Solar Japan Ltd., under the name of Shell Solar GmbH. This and much more information available by subscription from Resources Total System Co., Ltd. in Chuo-ku, Tokyo, e-mail: PvinJP@rts-pv.com, fax: +81-3-3553-8954, contact ohigashi@rts-pv.com.

1-27-04 California, St. Francis Winery Solar Electric System

St. Francis Winery will install a 457-kW solar electric system for its winery in Santa Rosa. The system, furnished by PowerLight Corporation, will be completed in May 2004. Said Christopher Silva, President and CEO of St. Francis Winery, "We've found that solar electricity is affordable and practical, not only for winemakers, but for all businesses and organizations that want to reduce costs and help stabilize our region's power supply." Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR324.htm>

PowerLight: <http://www.powerlight.com/>

1-27-04 Democrats on Energy Policy

One of the many summaries and briefs on the candidates <http://tinyurl.com/2nyvb>

1-27-04 Reference for Global Warming Report (Kevin Eber)

For more on the Woods Hole report, see: <http://www.whoi.edu/media/saltchange.html>

1-26-04 Konstanz, Germany: 2 MW Sunways AG and solarcomplex GmbH Installation

Sunways AG and solarcomplex GmbH have an agreement for the installation of 2 MW of PV by 2004. The installation in the district of Konstanz will have components made by Sunways AG and its subsidiary MHH Solartechnik GmbH, exclusively. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsEUPR137.htm>

solarcomplex: <http://www.solarcomplex.de/>
Sunways: <http://www.sunways.de/en/index.php>

1-26-04 Pforzheim, Germany: Commercial PV System on Line

A 128-kW PV roof top system has been installed by Energo GmbH on a commercial building in Pforzheim. Energo, which operates 12 large-scale installations, will operate the plant. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR138.htm>
Energo: <http://www.energo-solar.de/>

1-26-04 Berlin, Germany: Cooperation on PV

At the European Conference for Renewable Energy, Environment Minister, Jurgen Trittin announced closer cooperation among the Department of the Environment, the PV industry, and the research institutes in Germany. Also at the European Conference were representatives of the Federal Solar Industry Association and the Fraunhofer Institute for Solar Energy Systems. More on the Conference at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUGO27.htm>

1-26-04 UK, Solar Power Plan

The London Plan outlines planning rules for local authorities that address PV installations. The Mayor of London is a supporter of renewable energy and says, "We need to introduce more photovoltaics and we will issue guidance to developers. It would be ridiculous if the vast majority didn't have solar panels or photovoltaics." Story through Solarbuzz at: <http://news.independent.co.uk/uk/environment/story.jsp?story=484797>

1-26-04 South Asia Regional Initiative for Energy

The Global Village Energy Partnership has posted a Request for Proposal, with a deadline of 20 February 2004. Proposals are sought for projects that fit into one of two categories: Research, and Outreach. See announcement at: <http://www.gvep.org/content/general/detail/7403>
http://www.sari-energy.org/small_grants/sari_rfp_oth.html

1-26-04 Power-Gen Conference - Clearing the Air on Energy

Information regarding the Conference, 1-3 March 2004 in Las Vegas, Nevada, can be found at: <http://pgre04.events.pennnet.com/>

1-26-04 More on the Omnibus FY 04 Appropriations Bill (highlighted in SEIA's weekly newsletter)

The FY 04 Omnibus appropriations bill (which should be signed shortly) includes \$179,175,000 for the National Institute of Standards and Technologies Advanced Technology Program, of which \$60,700,000 is to be expended for awarding new grants before September 30, 2004. A number of solar companies have participated in this Department of Commerce program, and the agency has a strong interest in doing more work in solar and energy. Call SEIA for more details.

Advanced Technology Program: <http://www.atp.nist.gov/>

Examples:

Global Solar Energy: <http://jazz.nist.gov/atpcf/prjbriefs/prjbrief.cfm?ProjectNumber=98-03-0029>

International Solar Electric Technology, Inc.:

<http://jazz.nist.gov/atpcf/prjbriefs/prjbrief.cfm?ProjectNumber=98-03-0022>

MicroCoating Technologies Inc.:

<http://jazz.nist.gov/atpcf/prjbriefs/prjbrief.cfm?ProjectNumber=98-03-0054>

AstroPower: <http://jazz.nist.gov/atpcf/prjbriefs/prjbrief.cfm?ProjectNumber=00-00-5707>

General Electric Company, Global Research:

<http://jazz.nist.gov/atpcf/prjbriefs/prjbrief.cfm?ProjectNumber=00-00-5925>

Evergreen Solar: <http://jazz.nist.gov/atpcf/prjbriefs/prjbrief.cfm?ProjectNumber=97-01-0257>
RWE Schott Solar, Inc.: <http://jazz.nist.gov/atpcf/prjbriefs/prjbrief.cfm?ProjectNumber=00-00-5016>
SunPower Corporation: <http://jazz.nist.gov/atpcf/prjbriefs/prjbrief.cfm?ProjectNumber=99-01-4040>
Energy Photovoltaics: <http://jazz.nist.gov/atpcf/prjbriefs/prjbrief.cfm?ProjectNumber=00-00-4193>

The bill also includes \$650,000,000 for the Millennium Challenge Corporation, a new aid corporation focusing on poor, stable countries. SEIA is working with some graduate students from GWU on an effort to determine how this money can be used to fund leveraged rural electrification projects.

1-26-04 Global "Warming" in Britain

In the continuing debate on global warming, new research suggests a change "of remarkable amplitude" in the circulation of the waters of the North Atlantic. The development described as "the largest and most dramatic oceanic change ever measured in the era of modern instruments", by the Woods Hole Oceanographic Institute (which led the research) would affect the Gulf Stream, which keeps Europe's weather mild. Story at: <http://news.independent.co.uk/uk/environment/story.jsp?story=484490>

1-26-04 Basic Research Needs to Assure a Secure Energy Future

This report, published a year ago from the Basic Energy Sciences Advisory Committee states, "Current projections estimate that the energy needs of the world will more than double by the year 2050. This is coupled with increasing demands for 'clean' energy - sources of energy that do not add to the already high levels of carbon dioxide and other pollutants in the environments. These coupled challenges simply cannot be met by existing technologies. Major scientific breakthroughs will be required to provide reliable, economic solutions." The report describes results of the workshop, a compilation of 37 proposed research directions.

See Basic Research Needs to Assure a Secure Energy Future at:

<http://www.sc.doe.gov/bes/besac/reports.html>

The Website for the U.S. Climate Vision is: <http://www.climatevision.gov/index.html>

1-26-04 Sustainable Energy Coalition (Link)

For the text of the letter from 18 business, consumer, environmental, and energy policy organizations calling on Congress to "enact the broadly-supported energy efficiency and renewable energy provisions in the proposed, but presently stalled, national energy bill", see: <http://www.commondreams.org/news2004/0122-08.htm>

1-23-04 Hawaii, Utility HECO RFP

Renewable Hawaii Inc. has issued a Renewable Energy Request for Project Proposals for the island of Hawaii. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR322.htm>

Renewable Hawaii: <http://www.renewablehawaii.com/RenewableHawaii/home/>

1-23-04 Whole Foods Market Solar Power

Whole Foods Market, Inc., in Edgewater, New Jersey, is installing solar panels made by BP Solar on the store's' roof. Says David Lannon, Whole Foods Market northeast region president, "We plan to continue to investigate opportunities to install solar power in other northeast region stores". Whole Foods Market, BP Solar, and SunEdison worked together to create the 120 kW solar electric system. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR321.htm>

BP Solar: <http://www.bpsolar.com/>

SunEdison: <http://www.sunedison.com/>

1-23-04 More on the Mars Spirit Rover and Spectrolab Solar Cells

Additional coverage of the Mars rover, and Spectrolab's PV cells can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=5939>. Said Richard Esposito, Media Relations for Spectrolab, Spectrolab's efforts in space-based solar have helped the company achieve record-breaking performance for terrestrial concentrator solar cells. Spectrolab: <http://www.spectrolab.com/>

1-23-04 Southern States Power and SunAmp Power Company Agreement

Southern States Power Company, Inc. announced that the company has finalized an agreement to acquire 51% of the outstanding and issued stock of SunAmp Power Company, a regional solar energy provider. Says Harrison McCoy, III, President and Chairman of Southern States Power Company, "...SunAmp's status as a distributor for BP Solar, one of the world's largest solar equipment suppliers, as well as its established client base in Arizona, including existing completed solar power projects, should allow Southern States to expand its reach to additional renewable energy clients". Story at: <http://biz.yahoo.com/pz/040122/51327.html>
SunAmp: <http://www.sunamp.com/>
Southern States Power: <http://www.sspowerco.net/>

1-23-04 California, Guidelines for Utility Power Planning

California energy regulators adopted guidelines for the state's utilities to draft long-term plans to ensure they have enough power to deliver to customers at low and stable prices. Public Utilities Commission President Michael Peevey said the companies must build up supplies of renewable energy like solar power and coordinate power planning with the California Energy Commission. Utilities will develop models that could lead to local communities building their own power resources from renewable energy and more efficient use of energy. Story at: http://biz.yahoo.com/rc/040122/utilities_california_cpuc_1.html

1-23-04 North American Energy Summit

The flyer for the North American Energy Summit, 14-16 April 2004, Albuquerque, New Mexico, which includes breakout sessions on developing renewable energy and energy efficiency, can be accessed at: <http://www.westgov.org/wga/initiatives/energy/summit/index.htm>

1-23-04 Support for Energy Bill Provisions (Ken Bossong)

Eighteen business, consumer, environmental, and energy policy organizations called upon Congress to "enact the broadly-supported energy efficiency and renewable energy provisions in the proposed, but presently stalled, national energy bill."

1-23-04 Powering Connecticut with Solar Energy

A seminar for businesses on the advantages of solar energy will be held in Hartford, Connecticut on 3 February 2004, with presentations by PowerLight, Connecticut Clean Energy Fund, and others. For more information, contact Heidi Bieber at Heidi.Bieber@ctinnovations.com.

1-23-04 Omnibus Bill Passed in Senate

The Senate voted 65 to 28 to send the FY 2004 Omnibus bill (HR 2673) to the President for his signature. The bill covers seven of 13 appropriations bills. Included in the Conference Report are provisions such as a \$50-million rainforest project in Corralville, Iowa, that would utilize renewable energy, and \$23 million for Agriculture's rural development, renewable energy program loans and grants.

1-22-04 Evergreen's Latest String Ribbon Technology Advance

Evergreen Solar announced it has successfully completed a prototype research project for its proprietary String Ribbon (tm) technology for manufacturing solar cells, which enables the growth of 4 silicon ribbons from a single furnace. The project was co-funded by a 3-year, \$2 M grant from the Advanced Technology Program of the National Institute of Standards and Technology. More on this advance at: <http://tinyurl.com/23f22>
Evergreen News: <http://tinyurl.com/yxpf>

1-22-04 Malaysia Building Integrated PV Project

The 5-year Malaysia Building Integrated Photovoltaic project will look into ways to raise awareness of solar energy and boost local manufacturing of PV equipment to bring down costs for consumers, with the vision of widespread use of PV technology. Story through Solarbuzz at: <http://tinyurl.com/yvtde>

1-22-04 European Renewables Progress

Projections from the European Renewable Energy Council show that use of renewable technologies could expand to satisfy 20% of Europe's energy demand by 2020. For electricity generation, the proportion contributed by wind, hydro, PV, biomass and geothermal in 2020 will reach almost 34% according to the projections. More on the 3-day European Conference for Renewable Energy - Intelligent Policy Options can be found at SolarAccess: <http://www.solaraccess.com/news/story?storyid=5928>
EREC: <http://www.erec-renewables.org/default.htm>

1-22-04 BP Solar Celebrity PV Program

Edward Norton is expected to talk about the BP Solar Neighbors(TM) (Neighbors™ is a trademark of the BP Solar Company) Program on the Larry King Live TV program on CNN this Saturday. Every time a celebrity joins the BP Solar Neighbors(TM) Program, BP donates a solar system to a low-income family in California. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO175.htm>
BP: <http://www.bpsolar.com/news.htm>

1-22-04 More on Shell's 5 MW Solar Plant

Additional coverage of the Royal Dutch/Shell Group plans to build the world's largest solar energy plant in Germany can be found at: <http://www.msnbc.msn.com/Default.aspx?id=4006977&p1=0>

1-22-04 Citigroup's Environmental Policy

Citigroup announced it's adopting a corporate policy to evaluate requests for project financing that could adversely affect the environment, and ban any funding for illegal logging operations. It also commits Citigroup "to invest in sustainable forestry and renewable energy". The policy will include consumer financing for solar panels, residential wind turbines, fuel cells, and other forms of clean energy. Story at: http://biz.yahoo.com/ap/040122/citi_environment_18.html
Citigroup Press: <http://www.citigroup.com/citigroup/environment/040122a.htm>

1-22-04 U.S. Fiscal Year 2005 Budgets

The President's FY 2005 budget should be released on February 2, 2004.

1-21-04 More on Connecticut Clean Energy Fund RFP

The Connecticut Clean Energy Fund released its second annual RFP for solar PV projects. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=5916>
CT Clean Energy: <http://www.ctcleanenergy.com/>

1-21-04 The "Power Tile"

A modular, integrated, solid-state system designed to harvest and store solar energy is under development. The device called the "power tile" consists of a PV cell, battery, thermoelectric device, and charge-control circuit. A prototype, which uses a dual-junction PV cell in the power tile, has been fabricated at the Jet Propulsion Laboratory. Story at CNN Yellowbix:

<http://tinyurl.com/28qwk>

1-21-04 Beacon Power Inverter

Beacon Power Corporation announced that the Smart Power M5 system has been added to approved listings in California and New York, following UL certification less than a month ago.

More information at: http://biz.yahoo.com/bw/040121/215466_1.html

Beacon Power: <http://www.beaconpower.com/>

1-21-04 Universal Communication Systems PV AirWater Machine

Universal Communication Systems Inc. subsidiary Air Water Corporation announced development of the PV-powered AirWater machine. The new machine called "The LIFESAVER" enables production of water in areas without electricity or other energy sources. More information at:

http://biz.yahoo.com/bw/040120/205761_1.html

Universal Communication Systems: <http://www.ucsy.com/>

1-21-04 Heliotronics SunViewer Software (Matthew Arner)

Heliotronics announced SunViewer(TM) (SunViewer™ is a trademark of the Heliotronics, Inc.) 5.0, a new release of their educational software, which visually displays the dynamic behavior of a PV system. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=5908>

1-21-04 New Mexico, Governor Richardson's State of the State Address (excerpt)

Energy... I want more tools to help expand our renewable energy capabilities for the long haul and help the existing efforts move forward. Thanks to the leadership of our state's two largest utilities, wind power is being supplied to our homes and businesses right now. Solar power, however, is another story. New Mexico ranks 2nd in the nation in solar energy potential, but to date, has done little to capitalize on this abundant natural resource. Therefore, I am forming a Solar Power Task Force to identify a commercial-scale solar power project by the end of the year that would be under construction by 2006. It is a challenge that will take a commitment from both the public and private sector to succeed. The rewards can be substantial, in high-wage jobs and economic development. I am also proposing a \$6 million capital projects package dedicated to incorporating energy efficiency and renewable energy technologies at state facilities and public schools throughout New Mexico. This will save taxpayers and school districts money by reducing energy costs. Government should also lead by example....

Richardson's speech: <http://www.governor.state.nm.us/speeches.html>

Solarbuzz story at: <http://www.solarbuzz.com/News/NewsNAGO156.htm>

1-20-04 Germany, Shell Solar and GEOSOL 5 MW Solar Power Station

Shell Solar GmbH and Gesellschaft fur Solarenergie (GEOSOL) announced they will build the largest solar power station in the world south of Leipzig in Germany. The free-standing array will comprise 33,500 solar modules with a total output of 5 MW. Shell Solar will be using PV modules of the new Shell SQ series. Press at: <http://tinyurl.com/2auug>

1-20-04 Solaicx Funding Round

Solaicx announced it has oversubscribed its \$1 million start-up financing round from private investors and will deliver on its promise: to offer solar electricity as a cost-competitive alternative to traditional electricity. Said Robert Ford, CEO, "Our ability to acquire funding under current market conditions is an indication of the strength of the Solaicx team, its technology and its

vision." Story at: http://biz.yahoo.com/prnews/040120/sftu021_1.html
Solaicx: <http://www.solaicx.com/>

1-20-04 BP Sustainable Development Award

The BP Foundation awarded a 3-year, \$1.95 million gift to Stanford University for a research program to support the Program on Energy and Sustainable Development at the Stanford Institute for International Studies. Information at:

<http://www.bp.com/genericarticle.do?categoryId=120&contentId=2016092>

1-20-04 U.S. Congress

The Senate is scheduled to reconvene today at noon, and resume consideration of the conference report to accompany the Omnibus Appropriations bill for FY 2004 (appropriations bills not yet passed for FY04). We can also expect to start hearing more on the comprehensive, national energy bill. The House also reconvenes today.

1-19-04 EuroPV Conference, "Photovoltaic Devices: Manufacturing Issues" (Arnulf Jaeger-Waldau)

Attached is an announcement of the EuroPV conference, "Photovoltaic Devices: Manufacturing Issues - From Laboratory to Mass Production", to be held in Kranjska Gora, Slovenia, 15-20

October 2004. ([PDF 179 KB](#)) [Download Acrobat Reader](#)

For additional information, see: <http://www.pv-net.net/europv2004.htm>

1-19-04 Xantrex and Atlantis Energy Roof Tile PV System

Xantrex Technology and Atlantis Energy Systems are offering an inverter and solar panel combination designed to make it easier for builders to install renewable energy systems. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPT55.htm>

Xantrex: <http://www.xantrex.com/>

Atlantis Energy Systems (Sunslates): <http://www.atlantisenergy.org/>

1-19-04 SPS Energy Solutions Off Grid Solar

SPS Energy Solutions recently took ownership of the Modular Autonomous Photovoltaic Power Supply business from RWE Schott Solar. More information at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=5901>

SPS Energy Solutions: <http://www.solaraccess.com/marketplace/compdetail?compid=660>

RWE Schott Solar: <http://www.solaraccess.com/marketplace/compdetail?compid=1418>

1-19-04 Konarka Technologies Board of Advisors (Joe Romano)

Konarka Technologies announced appointment of 2 new members of its Board of Advisors. Dr. Donald Fitzmaurice and Justin Adams have been named to the Board to guide Konarka's scientific and business development, respectively. See press at:

http://www.konarkatech.com/news_press.php

1-19-04 Taiwan, Solar-powered Flying Saucer?

The flying machine, with a diameter of 20 cm, is powered by solar energy and can fly as high as 3 stories. It uses the same type of solar cells as NASA used for Mars. Story at:

<http://tinyurl.com/28qf5>

1-16-04 Spectrolab Solar Cells Power Mars Exploration Vehicles

Solar cells manufactured by Spectrolab, Inc., are providing power to "Spirit", the NASA-built spacecraft that landed on Mars January 4. Spectrolab, a Boeing subsidiary, supplied the Improved Triple Junction (ITJ) solar cells for the Spirit rover, and the solar cells will also power NASA's "Opportunity" rover scheduled to land on Mars on January 24. Story at:

http://biz.yahoo.com/prnews/040115/cgth056_1.html

Spectrolab: <http://www.spectrolab.com/>

1-16-04 More on The Netherlands Solar Energy Project "Sunport" (Johan Trip)

For additional information on the "Sunport" 0.5 MW project, see text and photos at:

<http://www.pvportal.com/news/data/2004/16010401.htm>

Historical information about Sunport and Ekomation can be viewed at: <http://www.oja-services.nl/iea-pvps/nsr02/nld4.htm>

1-16-04 Kyocera President for U.S.-Based Solar Energy Unit

Kyocera International, Inc., announced it has named Steven C. Hill as president of Kyocera Solar, Inc., a wholly-owned subsidiary with headquarters in Scottsdale, Arizona. Story at:

http://biz.yahoo.com/bw/040116/155880_1.html

Kyocera Solar: <http://www.kyocerasolar.com/>

1-16-04 TRC to Optimize Energy Use at the Pentagon

TRC announced that its Energy Services Group has been retained by the Department of Defense to work with Dominion Virginia Power to design and build an "intelligent building" system that conserves and optimizes energy use inside the Pentagon. TRC's two initial activities, part of the renovation after September 11, included design, engineering and construction services to develop the Pentagon's Solar Energy Farm, comprising 2 systems - a PV system and a solar hot water system. Information at:

http://biz.yahoo.com/bw/040115/155556_1.html

TRC: <http://www.TRCsolutions.com/corporate/>

1-15-04 Sustainable Energy Technologies Financing

Sustainable Energy Technologies, Ltd announced it is raising \$1,000,000 in a non-brokered issue to fund the commercial production of its 5 kW grid-interactive solar inverter. Information at:

<http://tinyurl.com/2dnek>

Sustainable Energy Technologies: <http://www.SustainableEnergy.com/SET-home/index.html>

1-15-04 Evergreen Solar Ships 50,000th String Ribbon Solar Panel

Evergreen Solar, Inc., announced the company has shipped its 50,000th solar panel incorporating its proprietary String Ribbon (tm) technology. Said Richard Feldt, President and CEO, "This shipment marks another milestone in Evergreen Solar's continued growth and innovation.... Our current expansion plans will enable Evergreen to quadruple manufacturing capacity over the next 12 to 18 months." Story at:

http://biz.yahoo.com/prnews/040115/nyth038_1.html

Evergreen Press: http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=eslr&script=400

1-15-04 Siemens Research

SolarAccess coverage of Siemens research on organic solar energy can be found at:

<http://www.solaraccess.com/news/story?storyid=5883>

Siemens: <http://www.siemens.com/index.jsp>

1-15-04 The Netherlands: Shell Solar and Siemens Nederland Installation

More than 3,000 Shell Solar panels have been installed on the roof of Rotterdam's Oceanium, with a total power output of 0.5 MWp. Siemens Nederland supplied the turnkey system and will maintain it. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR135.htm>

Shell Solar press: <http://www.shell.com/home/Framework?siteId=shellsolar>

1-15-04 Apollo Alliance Report

The Apollo Alliance has laid out a vision for a "New Apollo Project" to create 3.3 million new jobs and achieve energy independence in 10 years. Press at:

http://www.apolloalliance.org/for_the_press/index.cfm

<http://www.solaraccess.com/news/story?storyid=5890>

New Energy for America: Apollo Jobs Report: <http://www.apolloalliance.org/jobs/index.cfm>

1-14-04 Thomas J. Starrs Appointment

The Bonneville Environmental Foundation announced that Thomas J. Starrs is joining BEF as Vice President of Marketing and Sales. BEF was established in 1998 to further the development and use of new renewable energy resources. Starrs comes to BEF from RWE Schott Solar Inc.

Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNACO169.htm>

Bonneville Environmental Foundation: <http://www.b-e-f.org/>

1-14-04 More on Neustadt, Germany, 2 MW Installation

More information on the 2 MW installation in Neustadt, Germany, with about 7,000 ASE-300-DG-FT modules made by RWE SCHOTT Solar can be found at the SCHOTT press release at:

<http://www.schott.com/english/news/press.html?NID=1519>

1-14-04 More on Sanyo's 200-kW Solar Array

Coverage of Sanyo's 200-kW array, with photo, can be found at SolarAccess:

<http://www.solaraccess.com/news/index.jsp>;

<http://www.solaraccess.com/news/story?storyid=5878>

1-14-04 Philippines, \$3.5 M from U.S. for Sustainable Energy Development Projects

The U.S. government will provide about \$3.5 M for the Philippines to fund sustainable energy development projects in the country. The memorandum of understanding covers technical assistance in the areas of increased energy efficiency, rural electrification, and expanded use of clean and indigenous sources of energy. Story at: <http://tinyurl.com/2grwr>

1-14-04 Malawi, Africa: "Is Solar Energy the Answer?"

An article by MISNA describes a broad range of solar activities in the African country of Malawi.

<http://www.misna.org/news.asp?lng=1&id=104492>

<http://www.misna.org/news.asp?lng=1&id=104493>

1-13-04 SatCon Power Conversion System Approval

SatCon Technology Corporation announced that its PowerGate AE-PV 100 kW PV Power Conversion System has been UL-1741 certified and has received approval by the California Energy Commission for use on California-sponsored projects. A 50 kW PCS is scheduled for testing this month. The designs are also being submitted to the New York Energy Research and Development Authority to qualify for that state's energy programs. Last year, SatCon entered into an agreement with United Solar Ovonic to develop PV PCSs. The 50 kW and 100 kW designs were part of this initial agreement. Story at:

http://biz.yahoo.com/bw/040113/135453_1.html

SatCon: <http://www.satcon.com/>

1-13-04 San Diego, California: SANYO 200 kW Installation

SANYO North America announced it has commissioned 2 new solar installations. The 2 solar arrays are a 150 kW PowerLight PowerGuard(R) (PowerGuard® is a registered trademark of the PowerLight Corporation) system on the roof of SANYO's U.S. headquarters, and a 50 kW PowerLight PowerTracker(R) (PowerTracker® is a registered trademark of the PowerLight Corporation) on an adjacent carport structure. The solar electric systems were furnished by

PowerLight Corporation using SANYO's frameless HIT-190 modules, and will be completed in Spring 2004. Story at: http://biz.yahoo.com/bw/040113/135385_1.html
SANYO: <http://www.sanyo.com/home.cfm>
PowerLight: <http://www.powerlight.com/>

1-13-04 Muscat, Oman: Solar-powered Mobile Phone Network

Solar Sales supplied 8 solar power systems with its partner Specialized Services & Supplies to a local carrier to increase mobile phone coverage. The systems used AstroPower 120 Watt modules, and a total of 160 modules were installed. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsASPR111.htm>

1-13-04 Australia, PV Rebate Program

Tasmanians have received nearly A\$900,000 under the Commonwealth Government's Photovoltaic Rebate Program administered by Aurora Energy. A total of 20 grid-interactive PV systems have been installed. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsASPR110.htm>

1-12-04 Munich, Germany: Siemens Organic Solar Cell Efficiency Gains

Siemens researchers announced they have increased the efficiency of printed organic solar cells from 3 to over 5%, and believe that the current state of the art will allow an efficiency of about 7%. Says Christoph Brabec, leader of this development, "Our efforts are partly concentrated on replacing non-organic technology. We are mainly aiming at new markets that we can open up because of the great benefits of our solar cells." More details on this development at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUTE11.htm>
Siemens AG (German): <http://www.siemens.de/index.jsp>

1-12-04 European Commission's Overview of EU-funded PV Research

The European Commission's Research DG has published an overview of EU funded research on PV energy. For more on this report, see CORDIS News at: <http://tinyurl.com/32s7x>
The report (4.4 MB pdf) is available at: <http://tinyurl.com/27btn>

1-12-04 Hamburg, Germany: Voltwerk 1.4MW PV Facility

The new 1.4 MW PV installation adjacent to the airport runway went on line at the Saarbrucken Airport. The project was developed by Voltwerk AG in collaboration with City Solar AG and installed by Suntechnics, utilizing 9,264 Conergy PV modules. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsEUPR134.htm>
Voltwerk AG: <http://www.voltwerk.de/en/index.php?&ID=0&language=en>

1-12-04 California, School District PV System Rebate from PG&E

RWE SCHOTT Solar, Inc., announced that its customer, the Empire Union School District, is the first district in the state to receive a Pacific Gas and Electric Company rebate for a PV power generation system. Story at Solarbuzz: <http://www.solarbuzz.com/News/NewsNAPR319.htm>
RWE SCHOTT: <http://www.rweschottsolar.com/>
PG&E: <http://www.pge.com/biz/rebates/>

1-9-04 India, Solar Modules to Rural Areas

BP Solar USA is donating over \$1M worth of solar modules to the Basel Agency for Sustainable Energy, a United Nations Environment Programme Collaborating Centre, which is dispatching them to rural and semi-rural areas of India where over 60% of the population is without electricity. The solar systems will be used for water pumping, lighting and for powering telecommunications services including cyber cafes. Story at: <http://tinyurl.com/2ovfw>

1-9-04 India, BP Solar Distributor, Global Resource Options

Global Resource Options, LLP, of White River Junction, Vermont, announced it has been appointed a BP Solar Distributorship. BP Solar has selected GRO to become their first "Integrated Distributor". Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=5850>

1-9-04 See Solar Today January/February 2004 for Bill Yerkes' article on "40 Years of Solar Power"; abstract at: http://www.solartoday.org/2004/jan_feb04/40_yrs_solar.htm

Also, see the feature article "**Good as Gold: The Silicon Solar Cell Turns 50**" by **John Perlin, Lawrence Kazmerski, and Susan Moon** at:

http://www.solartoday.org/2004/jan_feb04/good_as_gold.htm

1-9-04 Nevada, More on Your Vitamins Installation and New Law

For photos, and more information on Your Vitamin's installation and the enacted Assembly Bill, see story through Solarbuzz <http://www.solarbuzz.com/News/Newspage.asp>

at: <http://tinyurl.com/3e5uk>

1-9-04 New Jersey, Solar on School Roofs

A Board of Education application to the Clean Energy Program was approved for securing some 10,000 solar panels for school roofs that are expected to generate 1.8 MW. Says Cassandra Kling, renewable energy program manager at the Board of Public Utilities, "Collectively, Bayonne is the solar capital of the East Coast". Story through Solarbuzz at:

<http://www.solarbuzz.com/News/Newspage.asp>

1-9-04 Wesley Clark on Renewables

At a Town Hall meeting, Presidential Candidate General Wesley Clark discussed issues concerning renewable energy as a means of protecting the environment, fighting global warming, and achieving energy independence. Clark told a SolarAccess.com reporter that he would fully support a national Renewable Energy Portfolio Standard to provide 10% of the country's electricity needs from renewable energy by 2013, growing to 20% by 2020. Story at SolarAccess: <http://www.solaraccess.com/news/story?storyid=5846>

1-9-04 AstroPower Report

AstroPower, Inc. announced the filing of a current report on Form 8-K, with the Securities and Exchange Commission, and the resignation of KPMG LLP as AstroPower's auditors. information at: http://biz.yahoo.com/bw/040108/85720_1.html

AstroPower: <http://www.astropower.com/>

Additional information on AstroPower's recent events is at:

<http://tinyurl.com/35c3p>

<http://tinyurl.com/2pjs6>

1-9-04 Hawaii, Solar Grant

The Pacific International Center for High Technology Research has received a \$288,800 grant from the government of Japan to help provide solar energy in rural villages of Fiji.

Announcement at: <http://the.honoluluadvertiser.com/article/2004/Jan/09/bz/bz05a.html>

1-9-04 California, Sun Splash

Twenty-three high schools will participate in the 2004 Sun Splash, a solar boat race at Lake Skinner in Hemet 21-23 May. The water district provides the students and their advisors with the boat kits and plans and specifications to construct solar-powered boats, which are about 15 feet

and carry one student. More at:

<http://www.dailybulletin.com/Stories/0,1413,203~21481~1879446,00.html>

1-9-04 Continuing with Air and Space Vehicles....

See earlier information on thin-film technology applications from Iowa Thin Film Technologies at: http://biz.yahoo.com/prnews/031111/cgtu013_1.html

Iowa Thin Film Technologies: <http://www.iowathinfilm.com/>

1-9-04 NCPV Hotline "Where Did I See That?"

For an index to NCPV Hotline entries in October, November, and December 2003, go to:

<http://www.nrel.gov/ncpv/>

1-8-04 AstroPower Workforce Reductions

AstroPower, Inc. announced it has reduced its workforce by about 10% through a layoff of 45 employees, a direct result of the company's continued efforts to control costs and improve manufacturing efficiency. Interim Chief Executive Officer Carl Young and Interim Chief Financial Officer Eric Glassman have been assessing the company's operating expenses, revenues, and strategic direction since their organization, Bridge Associates, LLC, was brought in to stabilize the company's financial position and manage operations. Said Young, "Production capacity has not and will not be impacted by these job cuts. AstroPower continues to produce solar electric power products as it navigates through its restructuring. The company remains committed to serving its customers despite these challenges." Story at:

http://biz.yahoo.com/bw/040107/75715_1.html

AstroPower News Release: http://www.astropower.com/press_releases.htm

1-8-04 An article in Solar Today, January/February 2004

features AstroPower; abstract at: http://www.solartoday.org/2004/jan_feb04/astropower.htm

1-8-04 XsunX Commercialization Drive

XsunX announced is has launched its commercial development efforts. Says Tom Djokovich, CEO, "Specifically, we are working with our patented technologies to deliver a licensable process for the manufacture of solar electric glazings for use in the glass, optical film and plastics industries. These industries typically depend on innovation to expand markets and the advantages that XsunX transparent solar cell technology may soon deliver are not only quite clear but also much anticipated." XsunX anticipates offering beta product testing and development relationships to various manufacturers later this year. Story at:

<http://biz.yahoo.com/pz/040108/50580.html>

XsunX: <http://www.XsunX.com/>

1-8-04 Grants for Renewables

According to this article, the National Energy Technology Laboratory anticipates it will receive \$14 million from FY 2004 appropriations under the "State Energy Program Special Projects Opportunity for Funding". The Solar Technology Program to deploy PV panels onto brownfield sites will receive \$250,000. Awards will be made through a competitive process, and details are to be released by today. Story at ReFocus: <http://www.re-focus.net/>

NETL (see Solicitations): <http://www.netl.doe.gov/>

1-8-04 EHN UK Headquarters

EHN has announced plans to invest £350m in a UK renewable energy programme from its new headquarters in South Wales. The group plans to locate its UK headquarters in Newport, from where it will direct its programme to install over 500 MW of renewable energy generation over the next 5 years. Story at: <http://tinyurl.com/2ovbc>

1-8-04 Dominican Republic, TECSOL Contract to Provide Solar Electrification

A contract signed by the Secretary of Industry and Commerce and the vice-president of TECSOL allows for 2,000 rural houses in 14 provinces to benefit from a RD\$46 million (\$1.3 million) project for installation of solar panels. Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsSAPR25.htm>

1-8-04 Spire Corporation's New Auditors

Spire Corporation announced it has appointed Vitale, Caturano & Company as its new independent auditor. Information at: http://biz.yahoo.com/bw/040107/75826_1.html

1-8-04 Sustainable Energy Coalition Survey of Presidential Candidates' Views on Energy and Environmental Issues (Ken Bossong)

The [Sustainable Energy Coalition](#) released the results of a 30-question survey of the views of 8 of the major presidential candidates on energy and related environmental policy issues. The full text of the candidates' responses and an executive summary can be found at several sites, including the American Solar Energy Society:

http://www.ases.org/election2004/sec_candidates.htm

1-8-04 The State of the PV Market

Solar Today January/February 2004 features an article by Paul Maycock on "The State of the PV Market". Abstract at: http://www.solartoday.org/2004/jan_feb04/state_pv.htm

1-8-04 The Making of Solar Champions

An article in EV World covers an interview with Professor Douglas Carroll, University of Missouri Rolla solar car team mentor and author. Overview and photo at:

<http://www.evworld.com/view.cfm?section=article&storyid=618>; full article by subscription.

1-8-04 Solar-powered Billboards

Solar-powered billboards in Iowa electronically update the jackpot numbers by satellite from a central location. Said Sally Robson, advertising manager for the lottery, "This will end up being a cost savings and be more reliable." Story through Solarbuzz at:

<http://desmoinesregister.com/business/stories/c4780940/23160762.html>

1-8-04 Calendar from EERE (Kevin Eber, EERE Network News:)

DOE's Office of Energy Efficiency and Renewable Energy (EERE) offers a 2004 calendar full of energy-saving suggestions. To download a copy of the calendar, see the EERE Web site at:

<http://www.eere.energy.gov/features/calendar.html>.

1-8-04 NCPV Hotline "Where Did I See That?"

For an index to NCPV Hotline entries in October, November, and December 2003, go to:

<http://www.nrel.gov/ncpv/>

1-7-04 A Better Link for Unmanned Aerial Vehicles (UAVs) - Thin Films (Ken Zweibel)

From the Daily Press: "Farther into the future is an unmanned airship. Not an airplane, SPS can maintain a relatively geostationary position at 70,000 feet. Call it Superblimp.

According to its manufacturer, Lockheed Martin, "Lift is provided by helium that is contained in its envelope. Differential thrust, electric-powered props control the pitch and roll and keep it in position. With the advent of thin-film photovoltaic solar cells (capable of producing voltage when exposed to radiant light), commercially available fuel cells and lightweight/high-strength fabrics, a high-altitude airship could stay on station weeks or even months at a time by generating its own power and keeping helium loss to a minimal amount." Source: January 5th article, see Lights in Night Sky) <http://www.vvdailypress.com/arc0-2004.html>

1-7-04 Solar Power Jackets

ICP Solar Technologies will unveil solar power jacket prototypes designed to allow wearers to carry, connect and charge their portable digital devices, at the 2004 International CES January 8-11 in Las Vegas, Nevada. ICP Global Solar division is integrating ICP's flexible thin-film PV technologies (CIGS) in three models of SCOTTeVEST(R) (SCOTTeVEST® is a registered trademark of the ICP Solar Technologies Inc.) jackets. More on this story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPT54.htm>

ICP Solar Technologies: <http://www.icpsolar.com/>

SCOTTeVEST: <http://www.scottevest.com/>

1-7-04 China's Expansion of Solar Power

To promote development of PV technology and industry, the State Development and Reform Commission and the Ministry of Science and Technology have developed a solar energy plan for the next 5 years, with an investment of 10bn yuan (\$1.2bn). Also, the World Bank initiated an environment fund project in 2001 and is ready to offer China \$25m to install 10 MW of PV in rural areas. Story at: <http://tinyurl.com/yghdn>

1-7-04 California, Governor Schwarzenegger's State of the State Address

See Governor Schwarzenegger's address in which he says: I am going to encourage the building of a hydrogen highway to take us to the environmental future. I am going to encourage builders to build homes using partial solar power. I am going to create a Green Bank to make loans to retrofit old, energy-inefficient buildings. I intend to show the world that economic growth and the environment can coexist. And if you want to see it, then come to California.

<http://tinyurl.com/2fhb3>

1-7-04 Oregon, A&K Development Co. PV Installation

A&K Development Co., -- a Eugene-based food processing equipment maker - is installing 150 PV panels to generate 22.5 kWp. The project is taking advantage of a Eugene Water & Electric Board pilot program that provides incentives to businesses to invest in PV systems. Owner Ron Anderson says, "We're always trying to be more competitive and look at areas where we know costs are going to continue to rise. Renewable energy makes a lot of sense". Story through

SolarBuzz: <http://www.solarbuzz.com/News/Newspage.asp>

at: <http://www.registerguard.com/news/2004/01/06/b1.bz.develop.0106.html>

1-7-04 Additional coverage of the Mars Spirit Rover and its solar power can be found at

SolarAccess: <http://www.solaraccess.com/news/story?storyid=5834>

1-7-04 For more on Berkeley's Bids for Solar Energy Systems, see SolarAccess:

<http://www.solaraccess.com/news/story?storyid=5839>

1-6-04 Malaysia, RM100 Million Solar Project

The Ministry of Energy, Communications and Multimedia along with other stakeholders plan to commit RM100 million for a Building Integrated PhotoVoltaic (BIPV) project. Minister Datuk Amar Leo Moggie said the government would commit around RM20 million to the fund to match an expected contribution from the United Nations Development Programme-Global Environmental Facility. Pusat Tenaga Malaysia (PTM) is developing the project, which is expected to start by early 2005. Story through Solarbuzz

<http://www.solarbuzz.com/News/Newspage.asp>

and at: http://www.bernama.com/bernama/v3/news_business.php?id=38470

1-6-04 BP Plans in Malaysia and Singapore

According to this article, BP Plc is pulling out of the petrol station business in Malaysia and Singapore and will sell 270 retail outlets in the 2 countries, saying it will refocus its resources on its chemicals, lubricants and solar power business in Malaysia. Story at:

http://biz.yahoo.com/rm/040106/energy_malaysia_bp_sale_2.html

<http://www.iii.co.uk/shares/?type=news&articleid=4835983&action=article>

1-6-04 More on Large Solar Energy Project for Nevada

A 214.5 kW solar array is currently under construction in Henderson on the roof of the Andrew Lessman's Your Vitamins Inc. production facility. Las Vegas Solar Electric is the solar electrical subcontractor for TWC Construction. The system is made up of 75 W AstroPower solar modules applied to the PowerLight PowerGuard roofing system. When completed in mid-January, the installation will cover 23,000 square feet. Story at SolarAccess:

<http://www.solaraccess.com/news/story?storyid=5826>

Las Vegas Solar: <http://www.vegassolar.com/>

PowerLight: <http://www.solaraccess.com/marketplace/compdetail?compid=531>

1-6-04 NASA's Spirit Rover on Mars - Solar Powered

On each Mars Exploration Rover, the core structure is made of composite honeycomb material insulated with a high-tech material called aerogel. The deck is populated with three antennas, a camera mast and a panel of solar cells. Additional solar panels are connected by hinges to the edges of the triangle. The solar panels fold up to fit inside the lander for the trip to Mars, and deploy to form a total area of 1.3 square meters (14 square feet) of three-layer photovoltaic cells. Each layer is of different materials: gallium indium phosphorus, gallium arsenide and germanium. The array can produce nearly 900 watt-hours of energy per martian day, or sol. However, by the end of the 90-sol mission, the energy generating capability is reduced to about 600 watt-hours per sol because of accumulating dust and the change in season. The solar array repeatedly recharges two lithium-ion batteries inside the warm electronics box.

In another source: Power is provided by the solar arrays, generating up to 140 W of power. By the end of the 90-sol mission, the capability of the solar arrays to generate power will likely be reduced to about 50 watts of power due to anticipated dust coverage on the solar arrays (as seen on Sojourner/Mars Pathfinder), as well as the change in season. Mars will drift farther from the sun as it continues on its yearly elliptical orbit, and because of the distance, the sun will not shine as brightly onto the solar arrays. Additionally, Mars is tilted on its axis just like Earth is, giving Mars seasonal changes. Later in the mission, the seasonal changes at the landing site and the lower position of the Sun in the sky at noon than in the beginning of the mission will mean less energy on the solar panels.

Composite Optics Inc. (COI), San Diego, Calif., built the lander structures and performed significant design and analysis for the project. In addition, COI manufactured the solar array substrates that provided power during the "cruise" stage to Mars and the solar array substrates mounted on the MER to provide power on the surface of Mars.

http://biz.yahoo.com/prnews/040106/cgtu016_1.html

Spirit Information and photos at:

http://marsrovers.jpl.nasa.gov/mission/spacecraft_rover_energy.html

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=2003-027A>

<http://marsrovers.jpl.nasa.gov/home/>

http://marsrovers.jpl.nasa.gov/mission/spacecraft_surface_rover.html

<http://spaceflightnow.com/mars/mera/031231mer.html>

1-6-04 Unmanned Aerial Vehicles (UAVs) - Thin Films (source: [January 5, 2004, Lights in Night Sky...](#))

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According to its manufacturer, Lockheed Martin, "Lift is provided by helium that is contained in its envelope. Differential thrust, electric-powered props control the pitch and roll and keep it in position. With the advent of thin-film photovoltaic solar cells (capable of producing voltage when exposed to radiant light), commercially available fuel cells and lightweight/high-strength fabrics, a high-altitude airship could stay on station weeks or even months at a time by generating its own power and keeping helium loss to a minimal amount."

1-5-04 Graham Owen's Response to L.A. Daily News

Graham Owen's response to the L.A. Daily News story on output of several solar electric systems at the Department of Water & Power can be found at:

<http://www.solarexpert.com/DailyNews-reply.html>

L.A. Daily News story: <http://tinyurl.com/3cmjo>

1-5-04 MSK and Kaneka Semi-transparent Building-integrated Product

PV-TV is a new building material that transforms any glazed surface into a power station by day and a full-color screen by night. It is based on amorphous silicon solar technology developed by MSK Corporation with Kaneka Corporation and the Japanese architects Taiyo Industries. The panels have a 38 Wp rating. See article highlighted in the latest issue of NBuzz at Solarbuzz:

<http://www.solarbuzz.com/News/NewsASPT18.htm>

MSK: <http://www.msk.ne.jp/english/index.shtml>

Kaneka: <http://www.kaneka.co.jp/kaneka-e/index.html>

1-5-04 Aquentium, Inc. Agreement for Manufacturing Facility

Aquentium, Inc., announced that the company has signed an agreement for office and manufacturing facilities in Palm Springs, California. Said Mark Taggatz, President, "With our recent acquisition of Charis Energy Development, Inc., we were seeking a location in California that would allow us manufacturing capabilities for our solar energy product". Story at:

http://biz.yahoo.com/prnews/040105/lam052_1.html

1-5-04 New Jersey, Medical Center Solar Electric System

SolarWorks USA will install an 85-kW solar electric system on a South Jersey medical center, using 450 of Sharp's 140-W rectangular and 70-W triangular modules mounted on a hip roof. Says Michael Gullo, SolarWorks USA COO, "Most people are unaware of the benefits of a solar energy system that can be obtained through the current net-metering program. The fact of the matter is that New Jersey has one of the best Renewable Energy programs in the country offering substantial incentives to consumers and businesses." Story at Solarbuzz:

<http://www.solarbuzz.com/News/NewsNAPR316.htm>

SolarWorks USA: <http://www.solarworksusa.com/index2.htm>

1-5-04 Green Power Requests for Proposals

To sign up to receive email notices of green power RFPs, go to:

http://www.eere.energy.gov/greenpower/gp_rfps.shtml

1-5-04 Canadian Renewables

For updates from Bill Eggertson, Canadian Association for Renewable Energies, visit:

<http://www.renewables.ca/>

1-2-04 Xcel Energy Renewable Development Fund RFP

Xcel Energy has issued its second request for proposals (RFP) for projects to fund. Funding is available for various sized projects in two categories:

1. Energy Production
2. Research and Development

The Fund schedule calls for grant applications to be submitted by March 16, 2004. Interested parties should submit a Notice of Intent to Bid prior to the grant application. Details at:

<http://tinyurl.com/yuvjv>

1-2-04 Connecticut Clean Energy Fund RFP

The Connecticut Clean Energy Fund has issued a Photovoltaic Program RFP for solar PV installations on commercial, industrial, and institutional buildings. For details see:

1-2-04 Interstate Renewable Energy Council Newsletter

IREC's E-Newsletter #26 - 2003 Year in Review can be found at:

<http://www.irecusa.org/commout/enewsletter.html>

1-2-04 CCEnergy Expansion

A solar-electric buyer's cooperative, CCEnergy, has established 9 California offices in the last couple years and intends to open more, possibly on the East Coast and in Ohio and Wisconsin says president and CEO Dan Pellegrini. Story through Solarbuzz at:

<http://www.busjrn.com/story.html?story.id=3759>

1-2-04 California, L.A. Department of Water and Power's Solar Output

Several of the Department of Water and Power's large-scale solar-energy projects appear to be generating less output than expected, and a review is underway.

<http://www.dailynews.com/Stories/0,1413,200~20954~1865437,00.html>