



Green Power Switch News is produced cooperatively by the Tennessee Valley Authority, distributors of TVA power, and the environmental community to provide information about the status and growth of Green Power Switch.

Green Power Switch News is available electronically, or in print form to Green Power Switch subscribers upon request. For more information, visit the Green Power Switch Web site at www.greenpowerswitch.com, or contact your local public power company.

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Green Power Switch is a renewable energy initiative that offers consumers in the Tennessee Valley a choice in the type of power they buy. TVA and local public power companies, working in cooperation with the environmental community, developed Green Power Switch as a way to bring green power—electricity that's generated by cleaner, renewable resources like solar, wind, and methane gas—to Valley consumers.

Green Power Switch is sold to residential consumers in 150-kilowatt-hour blocks (about 12 percent of a typical household's monthly energy use). Each block adds \$4 to the customer's monthly power bill.

For more information, visit www.greenpowerswitch.com



Green Power Switch®

Lowe's leads in home improvement—and more

Lowe's Home Improvement Warehouse has become the largest purchaser of Green Power Switch.

"Using clean energy is part of our corporate citizenship," says Robin Nickles, Vice President of Retail Facilities Management at Lowe's. "It's the right thing to do for the environment, and it's the right thing to do for our customers."

For its purchase of Green Power Switch, Lowe's has been recognized by the U.S. Environmental Protection Agency through its Green Power Partnership. The EPA program is a new, voluntary initiative to establish green-power procurement as a best practice of environmental management. Program participants include Fortune 500 companies, cities, and leading organizations around the nation. More information about the partnership is available at www.epa.gov/greenpower. Gary Harris, Green Power Switch Program Manager, says, "We commend Lowe's for its corporate commitment to improving the environment and for choosing Green Power Switch as a means of doing so."

Lowe's, the nation's 13th-largest retailer, stocks more than 40,000 home improvement items and caters to both do-it-your-



From left, Robin Nickles, Vice President of Retail Facilities Management at Lowe's; Kathleen Hogan, Director of the Climate Protection Partnership Division at EPA; Debbie Murray, TVA Senior Account Manager

self and commercial customers. The company has 53 locations in the TVA service area that are served by 37 power distributors. At the 32 Lowe's stores where Green Power Switch is currently available, green-power purchases total about 3 percent of monthly electrical use.

"Lowe's participation in Green Power Switch has given participating distributors the opportunity to promote green power at the corporate level," says Debbie Murray, TVA Senior Account Manager assigned to Lowe's. Hopefully more companies across the region will follow the store's example.

A 'smart' way to promote Green Power Switch

The Jackson Energy Authority (JEA) is transforming one of Jackson, Tennessee's older homes into a home of the future.

Tisdal Place, as the home is called, was the first in Jackson to sign up for Green Power Switch after JEA joined the program in June. The project will allow JEA to showcase residential energy efficiency and modern technology.

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Green Power Switch News

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—Gary Harris
Program Manager,
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Give the gift that keeps giving this holiday season



Purchase one block of GPS for one year in the name of someone special and give the gift of clean energy all year long. Simply email us at greenpowerswitch@tva.com with your name, the name of your local power utility, and the person you wish to receive the gift. An additional block will be added to your monthly utility bill for one year. The recipient will receive a holiday card from GPS notifying them of your gift.

JEA plans to completely renovate the home and upgrade the interior so that it becomes a highly energy-efficient, high-tech residence. The project should be finished by late October, in time to be part of Jackson's fall HomeFest 2002.



The "smart house" will have such conveniences as computer-controlled lighting and appliances. That will allow the homeowner, for example, to change the thermostat and possibly operate other appliances from a computer at work. "Our goal was to renovate an older home so that people could see what they can do to improve efficiency in their own homes," says Bruce Dorris, JEA Technical Services Coordinator. "We also hope the project will promote Green Power Switch and persuade others in the community to sign up for the environmentally beneficial program."

Tisdal Place will be open for tours during HomeFest and probably for another six months after that before it is sold as a residence. "It's a perfect project for the Energy Authority," Dorris says. "We're excited about showing the community what a smart house can offer."

For more information, contact Dorris at 731-422-7294, or visit www.jaxenergy.com.

Allen Fossil Plant methane facility providing Green Power Switch

The city of Memphis and TVA's Allen Fossil Plant are working together to provide as much as four MW of output for Green Power Switch per month. The City of Memphis Wastewater Treatment Plant produces a methane by-product that is used as fuel at the neighboring TVA fossil plant.

Landfill gas, which consists mainly of methane and carbon dioxide, is produced when organic wastes in landfill sites

decay. The gas at the wastewater facility, as in all landfills over a certain size, must be burned, or flared, in order to reduce the hazard arising from gas buildup. The plant's lagoon was covered to capture the methane, which provides fuel for powering cleaner electricity generation. "Memphis is proud to put our methane to good use for green energy production," says Peter Alfonso, manager of the Memphis wastewater treatment facility.



From left: Peter Alfonso, manager of the Memphis wastewater treatment plant, and Carmen Ledbetter and Angela Hamlin of Green Power Switch examine the plant's covered lagoon, where methane is captured.

What's the driving force behind Green Power Switch?

“**W**indy,” the official car of Green Power Switch, is one of just 100,000 Toyota Prius vehicles on the road worldwide. The hybrid sedan’s advanced technology combines a gas engine with an electric motor to create an environmentally sound, fuel-efficient automobile. Windy, as the car was dubbed by the Green Power Switch staff, has logged more than 8,000 miles traveling across the Tennessee Valley promoting the renewable energy program.

The Prius gets 52 miles per gallon and is so clean-burning that it has been certified



as a Super Ultra Low Emission Vehicle (SULEV). Still, it has all the practicality of a regular car.

For more information about the Toyota Prius, please visit www.toyota.com/html/shop/vehicles/prius/index.html.

Expanding the mountain

In order to make Green Power Switch available to more customers, TVA has begun planning for an expansion of its two-megawatt wind energy facility at Buffalo Mountain Wind Park near Oak Ridge, Tennessee. TVA issued a request for proposals (RFP) that would allow it to buy wind energy under a power purchase agreement and/or contract for the turnkey engineering and construction of a wind energy facility.

Proposals submitted that met the requirements specified in the RFP are being evaluated to determine if they will provide the best overall value in supporting Green Power Switch.

Hungry for Green Power Switch

Testing the old age saying that the way to someone’s heart is through his (or her) stomach, the Cumberland Electric Membership Corporation presented Green Power Switch information sessions at breakfast, lunch, and dinner meetings throughout its five-county service area. “Thanks to the outstanding presentations by Gary Harris, GPS Program Manager, we were able to sign up a surprising number of customers at these meetings,” says Virginia Lowe, CEMC consumer services manager. CEMC followed up the meetings with a six-week advertising campaign, supplemented by bill inserts to all 76,000 members. Now the co-op is taking the message of renewable energy to area civic clubs.

Generation update

Solar power sites

Generation May 1 - July 31

Cumberland Science Museum	10,681 kWh
Dollywood Tram C	3,995 kWh
Dollywood Tram D/E	2,654 kWh
Gibson County High School	6,930 kWh
Ijams Nature Center	6,778 kWh
Cocke County High School	4,401 kWh
Duffield-Pattonsville Elementary School	4,244 kWh
Sci-Quest/North Alabama Science Center	12,710 kWh
American Museum of Science & Energy	5,299 kWh
Lovers Lane Soccer Complex	16,140 kWh
Finley Stadium	36,947 kWh
Oak Ridge National Laboratories	3,027 kWh
Total solar generation	113,805 kWh

Wind power site

Generation May 1 - July 31

Buffalo Mountain Wind Park	689,741 kWh
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Methane gas sites

Generation May 1 - July 31

Middle Point Landfill Gas Facility	3,688,965 kWh
Allen Fossil Plant Methane Facility	2,297,796 kWh

Participation update

Total number of green power blocks subscribed:	18,861
Number of green power blocks subscribed from May 1, 2002 to July 31, 2002:	3,303
Number of residential customers subscribing:	5,883
Average number of green power blocks per residential customer:	1.7
Number of business customers subscribing:	283 business customers purchasing 8,620 blocks