



U.S. Department of Energy, Biomass Program

Updates to Biomass R&D TAC

Laura Neal
September 15, 2009

OBP Staff Changes



- Laura Neal – New Designated Federal Officer for the TAC
- John Ferrell – New Acting Biomass Program Manager
- Valri Lightner – Deployment Team Lead; Maintain role as POC for Biomass R&D Board
- Impacts of American Recovery & Reinvestment Act on Staffing

DOE EERE Organization



For full organizational charts, please see
http://www1.eere.energy.gov/office_eere/pdfs/eere_orgchart.pdf

Catherine Zoi

Assistant Secretary for Energy Efficiency and Renewable Energy

In her role as Assistant Secretary, Ms. Zoi manages the U.S. Department of Energy's \$2.1 billion applied science, research, development, and deployment portfolio, which promotes marketplace integration of renewable and environmentally sound energy technologies. Additionally, Ms. Zoi oversees EERE's \$16.8 billion in funding under the American Recovery and Reinvestment Act.

Henry Kelly

Principal Deputy Assistant Secretary

Dr. Henry Kelly is the Principal Deputy Assistant Secretary for the Office of Energy Efficiency and Renewable Energy at the U.S. Department of Energy. In this capacity, Dr. Kelly is responsible for managing the programs, staff and policies of EERE and interfacing with constituent groups in the efficiency and renewable energy sectors.

Steven Chalk

Chief Operating Officer

Steven Chalk is the Chief Operating Officer of the Office of EERE. In this capacity, he is responsible for day-to-day operational oversight and management of the Office of the Assistant Secretary and for directing the implementation of the EERE priorities, policies, and program development and execution.

DOE EERE Organization



John Lushetsky

Deputy Assistant Secretary for Energy Efficiency (Acting)

John Lushetsky is the Deputy Assistant Secretary for Energy Efficiency of the Office of EERE. As Deputy Assistant Secretary, John supports the Assistant Secretary in day-to-day management of the EERE portfolio of energy efficiency programs including industrial, buildings, and vehicle technologies.

Jacques Beaudry-Losique

Deputy Assistant Secretary for Renewable Energy

Jacques Beaudry-Losique is the Deputy Assistant Secretary for Renewable Energy of the Office of EERE. In this role, he oversees a portfolio of more than \$750 million of Renewable and Clean Energy programs, including wind, solar, biomass, geothermal and hydrogen.

Melody C. Bell

Deputy Assistant Secretary for Business Administration

Ms. Melody Bell, Project Management Professional, is the Deputy Assistant Secretary for Business Administration in the Office of Energy Efficiency and Renewable Energy at the U.S. Department of Energy (DOE). In her prior post, Ms. Bell served as the Deputy Director of the Office of Transformation at DOE where she assessed and developed policy to enhance and improve effectiveness, utility, and efficiency of the nuclear weapons complex.

DOE EERE Organization



David E. Rodgers

Director of Strategic Planning and Analysis

David E. Rodgers is Director of Strategic Planning and Analysis within the Office of Energy Efficiency and Renewable Energy (EERE) at the U.S. Department of Energy. Mr. Rodgers supports the Assistant Secretary in day to day management of the EERE energy efficiency portfolio.

Rita Wells

Executive Director for Field Operations

Rita Lappin Wells, PhD, is the Executive Director for Field Operations. In this capacity, she manages the Golden Field Office in Colorado, DOE's primary organization for managing renewable energy and energy efficiency projects across the Nation. The Golden Field Office, which has recently experienced a growth rate of more than 50%, as well as a significant increase in workload and budget, also manages the contract for the National Renewable Energy Laboratory (NREL), a government-owned contractor-operated facility.

Board of Directors

Samuel F. Baldwin

Chief Technology Officer and Member

Sam Baldwin is a PhD. Physicist and currently serves as the Chief Technology Officer and Member of the Board of Directors for the Office of Energy Efficiency and Renewable Energy at the U.S. Department of Energy.

Mark Ginsberg

Member

Mr. Mark Ginsberg was appointed by the Assistant Secretary for Energy Efficiency and Renewable Energy (EERE) to serve on the EERE Board of Directors, effective July 1, 2002. In that capacity, Mr. Ginsberg and the Board direct EERE policy, strategies, and budgets and serve as "ambassadors" for the organization.

TAC Housekeeping



- Registered Lobbyists
- Travel Reimbursement
- Status of 2007/2008 Recommendations
- Status of 2010 Nomination Process
- December Meeting
 - Planned for Dec. 1 – 2 in Washington, DC
 - Specific location TBD
 - Primary purpose is to review draft annual report

Update on R&D Board Activities



- Several agency representatives here today to meet with Sub-Committees
- IWG Reports Status – details covered during sub-committee break-outs
- New Board Member Status:
 - DOE: Under Secretary of Science Koonin will serve as co-chair; Under Secretary of Energy Johnson will serve as a member
 - USDA: Under Secretary for Rural Development Tonsager will serve as Co-Chair; Under Secretary for Research, Education, and Economics Shah will serve as a member
 - NSF: Director Bement continues
 - DOI: Assistant Secretary for Land and Mineral Management Lewis
 - EPA, DOT, DOC, DoD, OFEE, OSTP & Treasury: TBD



Biomass Program Peer Review 2009

External, independent review of our research portfolio and strategic direction

MARCH 19 - 20

**Platform Series I
National Harbor, Maryland**

- Integrated Biorefineries
- Infrastructure
- Analysis

COMPLETED

APRIL 8 - 10

**Platform Series II
Washington, DC**

- Feedstocks Technology
- Sustainability

COMPLETED

APRIL 13 - 17

**Platform Series III
Denver, Colorado**

- Biochemical Conversion & Biobased Products
- Thermochemical Conversion & Products

COMPLETED

JULY 14 - 15

**Program Review Meeting
Rosslyn, Virginia**

- Strategic Direction
- Results of Platform Reviews

COMPLETED

Peer Review Web Site: <http://obpreview2009.govtools.us/>

Initial Reviewer Feedback from Program Review

(example comments from preliminary draft report)



- Greater focus and broader scope is needed on the Infrastructure topic. Several reviewers believe considerable work must be done on planning for fuel distribution, design standards for storage, dispensing devices, cars, trucks, and small engines as well as certification and test fuels.
- Additional emphasis should be placed on feedstocks research and scalability. A major area for improvement is establishment and development of the perennial crop feedstocks that can be a resource for delivering the vision of environmentally beneficial production of biofuels over the long-term.
- The Review Panel strongly agrees with Program efforts to place greater emphasis on funding and integrating sustainability efforts. The Biomass Program strategy should engage with institutions worldwide who are studying this topic, perform the necessary analysis, and articulate a strategy for achieving a “sustainable” biomass industry, which includes the issue of indirect land use. Only then can there be an effective rebuttal to the negative press surrounding biofuels.
- The Review Panel recognizes the important value of the Program’s analysis activities and recommends the Biomass Program expand the scope and capability of analysis tools. A dedicated effort to maintain consistent assumptions and data sets across the Program is recommended.
- The Biomass Program should integrate other uses of biomass: heat and power, biobased products, feed and fuel, chemical feedstock. Consideration within systems analysis as a minimum.

Active Solicitations



Advanced Biofuels

- Integrated Pilot-Scale or Demonstration-Scale Biorefinery for Advanced Biofuels
 - Up to \$480M over 5 years for up to 20 projects
 - Pilot-Scale requires $\geq 20\%$ cost share
 - Demo-scale requires $\geq 50\%$ cost share
 - Closed 6/30/09
 - Proposal review conducted during the weeks of 8/31/09 and 9/14/09
 - Announcement of selections mid-November

Funded by
Recovery Act



Feedstock Logistics

- Integrated Feedstock Logistics Demonstration
 - Up to \$21M for 5 projects over 3 years
 - Selections announced 8/31/09:
http://www1.eere.energy.gov/biomass/news_detail.html?news_id=14865
 - Agco Corporation
 - Auburn University
 - FDC Enterprises, Inc.
 - Genera Energy LLC
 - SUNY College of Environmental Science and Forestry



Active Solicitations Continued



Ethanol Blends Infrastructure & Outreach

- Refueling Infrastructure for Higher Ethanol Blends
 - \$3.5M for 15 – 30 projects
 - Expand the infrastructure at retail fueling locations to accommodate blends up to E85
- Outreach for higher ethanol blends
 - \$2M for up to 5 projects
 - National campaign projects that will raise public awareness of the benefits, safety, and use requirements of higher ethanol blends up to E85
- Responses due 10/4/09

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Algal and Advanced Biofuels

- Development of algae-based biofuels and advanced, infrastructure-compatible biofuels
- Up to \$85M for 2 – 3 partnership-based projects over 3 years
- Responses due 9/14/09

Funded by
Recovery Act

