USDA’s Bio-Economic Initiative

Algae Biomass Summit

San Diego, CA
Oct 01, 2014
The Climate Change Program Office (CCPO) functions as the Department-wide coordinator of agriculture, rural and forestry-related global change program and policy issues facing USDA. The Office ensures that USDA is a source of objective, analytical assessments of the effects of climate change and proposed response strategies. The Office also serves as USDA's focal point for climate change issues and is responsible for coordinating activities with other Federal agencies, interacting with the legislative branch on climate change issues affecting agriculture and forestry, and representing USDA on U.S. delegations to international climate change discussions.
The Office of Energy Policy and New Uses (OEPNU) assists the Secretary of Agriculture in developing and coordinating Departmental energy policy, programs, and strategies related to energy (biofuels and heat and power) and biobased products, and coordinates USDA activities related to energy and biobased products within and outside the Department. The Office conducts economic analysis and evaluates policies concerning energy and the utilization of biobased products. Research is currently underway on renewable fuels and biopower from biomass and marketing biobased products. The Office also tracks energy use trends on crop and livestock farms.
OEPNU Specific Programs and Research Areas

- Biodiesel Fuel Education Program
  - Co-Administered with NIFA
- Ethanol and Biodiesel Market Analysis
  - Net Energy Balance
- Life-cycle Analysis
- Land – Use and Bioenergy
- Bioproducts Research
- Biopower Research
- Energy and Agriculture Research
- Defense Production Act
- Farm to Fly
- Farm to Fleet
2012 National Bioeconomy Blueprint Strategic Objectives

- Support Bioeconomy R&D investments
- Facilitate the commercialization of bioinventions from lab to market
- Develop and reform regulations to reduce barriers and costs of production while protecting human and environmental health
- Meet the national workforce needs to support the bioeconomy
- Promote and support public-private partnerships to learn from successes and failures
USDA Energy Policy
Legislative History

Legislative History and the “Farm Bills”:

• Agricultural Act of 2014
• Food Conservation Act of 2008
• Energy Independence and Security Act of 2007
• Energy Policy Act of 2005
• Farm Security and Rural Investment Act of 2002
USDA Programs are uniquely positioned to assist Bio-Economic Development

Agricultural Act of 2014
Title IX - Energy

- Biobased Markets Program (9002)
- Biorefinery, Renewable Chemical, and Biobased Product Manufacturing Program (9003)
- Repowering Assistance Program (9004)
- Bioenergy Program for Advanced Biofuels (9005)
- Biodiesel Fuel Education program (9006)
- Rural Energy for America Program (REAP 9007)
- Biomass Research and Development (9008)
- Feedstock Flexibility Program (9009)
- Biomass Crop Assistance Program (BCAP 9010)
- Community Wood Energy Program (9012)
USDA Programs can be found on the Catalog of Federal Domestic Assistance (CDFA) website: https://www.cfda.gov

**Additional USDA Programs utilized for algae research projects**

- **CDFA Program 10.001**
  - Agricultural Research Basic and Applied Research
  - Agricultural Research Service (ARS) [grant]
- **CDFA Program 10.206**
  - Grants for Agricultural Research Competitive Research Grants
  - National Institute of Food and Agriculture (NIFA) [grant]
- **CDFA Program 10.212**
  - Small Business Innovation Research
  - National Institute of Food and Agriculture (NIFA) [grant]
- **CDFA Program 10.310**
  - Agriculture and Food Research Initiative (AFRI)
  - National Institute of Food and Agriculture (NIFA) [grant]
- **CDFA Program 10.312**
  - Biomass Research and Development Initiative Competitive Grants Program (BRDI)
  - National Institute of Food and Agriculture (NIFA) [grant]
USDA Energy Website
http://usda.gov/energy

USDA Energy Web includes interactive map, graphing analysis tools, and the USDA Energy Matrix. These instruments allow you to view past USDA investments, navigate in a friendly environment USDA energy programs and compare and analyze biofuels and bioenergy data from the U.S. Department of Agriculture (USDA). To learn more about USDA's position on energy watch a video with USDA Secretary Tom Vilsack on Renewable Energy.

Energy Investments Map
The Energy Investments Map is an interactive map to help users understand where USDA is providing investment support for renewable and sustainable energy initiatives across the United States. New investment data have been posted along with a few new features. Research what's going on in your State or County.

USDA Energy Matrix
The Energy Matrix is a Navigational Aide. USDA's energy related programs are large in scope, and extends among many USDA agencies and mission areas. If you are searching for alternative and affordable energy solutions; funding for projects, available programs and program information, or research and development - we are here to assist you. The Energy Matrix is USDA’s one-stop-shopping matrix serving the public, private businesses and the government.

The Bioeconomy Tool Shed
The Bioeconomy Tool Shed (formerly named The Renewable Energy Tool) is a portal to enable users to access a complement of web-based products (tools) and information, statistical data and other resources regarding the bioeconomy. USDA broadly defines bioeconomy to include renewable energy (fuels, heat and power) and bio-based products. These interactive tools are intended to help users identify at the National, state, and county level the logistics, environmental linkages, and economic linkages across feedstock production.
USDA Presenter Contact Information

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USDA looks forward to collaborating with you on your next Biomass project. Thank you!

Questions

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