

Updates on USDA Programs Supporting the BioEconomy

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**Biomass Research and Development
Technical Advisory Committee Meeting**
March 1, 2012



USDA Biomass Activity Briefing

- **USDA Renewable Energy Website**
- **Farm to Fly Aviation Biofuel Release**
- **Presidential Memorandum on Biobased and Sustainable Product Procurement**
- **Update on Biorefinery Assistance Program, Rural Energy for America Program (REAP), Biomass Crop Assistance Program**
- **Questions and Discussion**

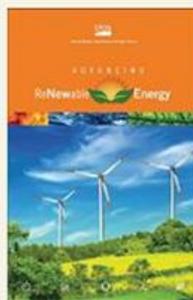
USDA Renewable Energy Website

Related Topics

- > [Overview](#)
- > [Energy News and Transcripts](#)
- > [Renewable Energy Special Projects](#)
- > [Special Projects Report](#)
- > [State Office Links](#)
- > [Glossary of Terms](#)
- > [Farm Bill 2008](#)
- > [Blog](#)
- > [Disclaimer](#)

Other Resources

- > [USDA Results: Energy](#)
- > [White House Energy](#)
- > [Federal Assistance Award Data System \(FAADS\)](#)
- > [USAspending.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. Research what's going on in your State or County.

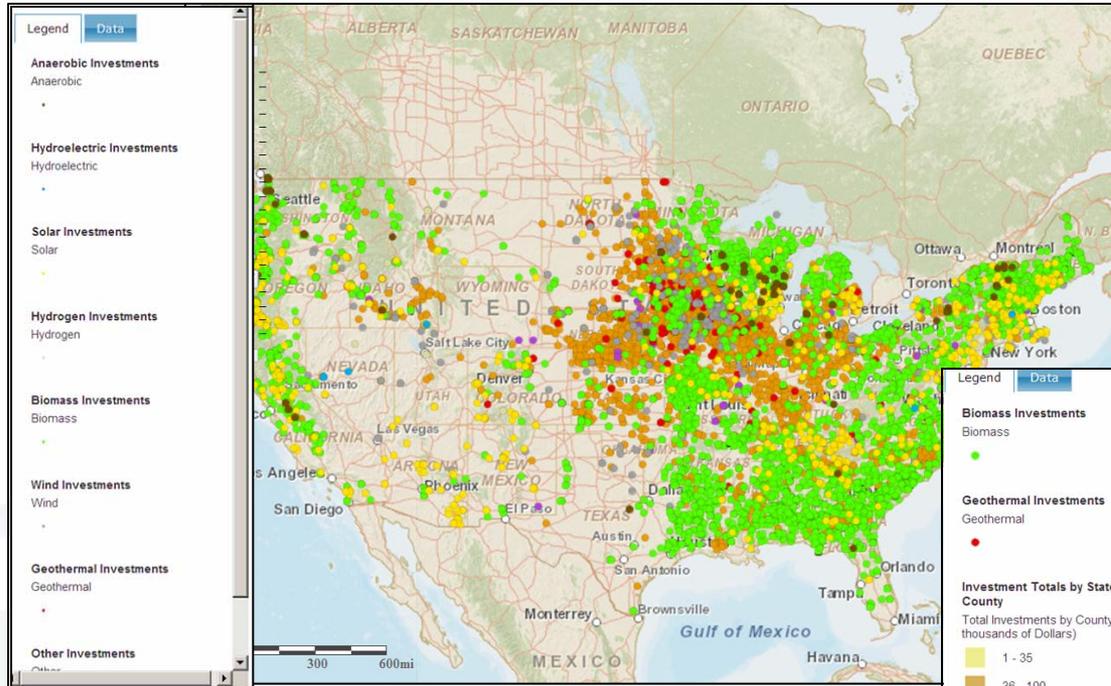
USDA Energy Matrix

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 Renewable Energy Tool

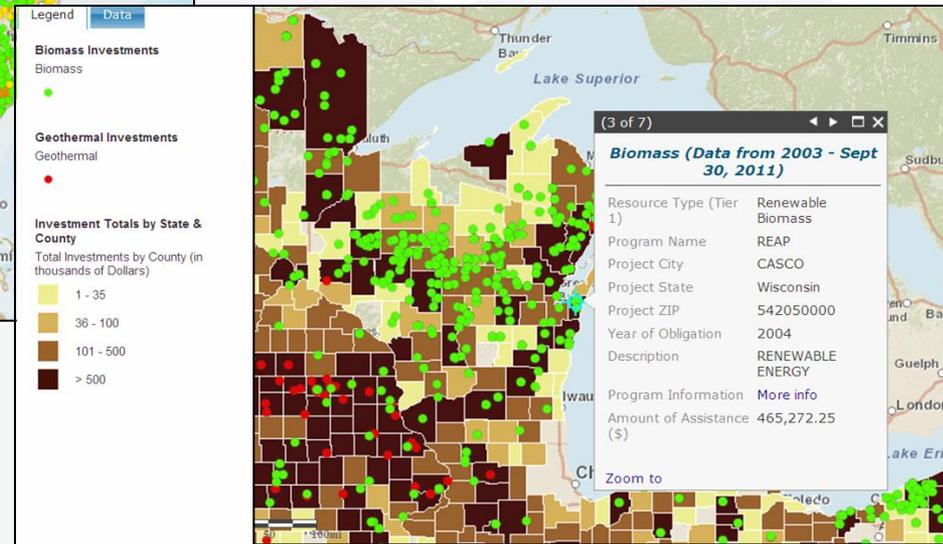
The Renewable Energy Tool is an interactive tool to help users identify at the National, state, and county level the logistics, environmental linkages, and economic linkages across feedstock production, renewable energy production and renewable energy demand and distribution.

Renewable Energy Website Investment Map



- More than 14,000 energy projects shown from across USDA Mission Areas

- Sort by state/county/district with aggregate and project specifics



Energy Matrix for USDA Funding Programs, Publications and Staff Contacts

United States Department of Agriculture

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Welcome to the USDA Energy Matrix

USDA has many programs to assist farmers, rural residents, and the nation to respond to energy-related issues and opportunities. These range from basic scientific research to the development and commercialization of new technologies. From more efficient farming techniques, wind farms, and ethanol plants to biochemical and genomics research, USDA is deeply involved in and committed to the nation's quest for energy security.

USDA's energy related programs and opportunities are available in several key areas. To help you navigate the matrix, we have developed an alternative and affordable energy information, or research and development one-stop-shopping matrix serving...

United States Department of Agriculture

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Energy Programs

Program/Service: -- All Programs --

Energy Type: -- All Energy Types --

Energy Subtype: -- All Energy Subtypes --

Assistance Type: -- All Energy Subtypes --

Agency: -- All Agencies --

- Anaerobic Digestion
- Animal Waste
- Beet
- Biodiesel Production
- BioDiesel
- Biofuels
- Biomass
- Biorefineries
- Biorefineries/Biochemical
- Biorefineries/Fischer-Tropsch
- Biorefineries/Classification
- Biorefineries/Pyrolysis
- Biorefineries/Thermal Conversion
- Biorefineries/Thermochemical
- Biorefinery by-products
- Biorefinery co-products
- Butanol
- Camelina
- Coconut
- Corn
- Crop Residue
- Dedicated Energy Crops
- Drop-in Fuels
- Electricity
- Energy Conservation
- Energy Efficiency
- Ethanol
- Ethanol Production

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Energy Contacts

Show 100 entries

Name	Title	Agency	Expertise
Andrea Clarke, Ph.D.	Energy and Climate Change Specialist - NRCS Programs	NRCS	Energy Efficiency Digesters Energy Conservation
Anthony Ashby	Loan and Grant Specialist - Biorefinery Assistance Program	RBS	Biorefining Biobased product Dedicated Energy Crops
Anthony Crooks	Energy Policy Specialist - Repowering Assistance Program	RBS	Biorefinery co-products Woody Biomass
Barbara Fesco	Feedstock Flexibility Program (FFP) Manager	FSA	Dedicated Energy Crops
Carmela Bailey	National Program Leader	NIFA	Biodiesel Dedicated Energy Crops Digesters
Chris Tuttle	Acting Chief, Policy Analysis and Loan Management Staff, Electric Program	RUS	Energy Efficiency Woody Biomass Solar Energy

- Searchable by energy category and key word

Renewable Energy Tool and Additional Renewable Energy Resources

- Useful links to other federal and state agencies

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Stay Connected

The Renewable Energy Tool

USDA's Renewable Energy Tool is a web based tool that is a work in progress. It is designed to identify "renewable energy opportunities" by providing stakeholders access to and technical data and information resources that are relevant to the evaluation of these opportunities. These opportunities are anticipated to range across the entire supply chain, from feedstock production, to bioenergy production, bioenergy use, and linkages between production, bioenergy production and use. Types of data and information that will be included but not be limited to: land use for producing biomass and energy crops and biomass crops, competition for biomass, blending terminals, fuel stations, USDA guidelines for and financial assistance, and state and federal office locations for energy, environmental protection, and conservation. Initially the focus is on providing information on energy, environmental protection, and conservation. Initially the focus is on providing information on energy, environmental protection, and conservation.

Additional Energy Resources
USDA Energy Resources Map

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FOIA | Accessibility Statement | Privacy Policy | Non-Discrimination Statement | Information Quality | USA.gov | Whitehouse.gov

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Stay Connected

Additional Renewable Energy Resources

The Additional Renewable Energy Resources area is a work in progress. A broad spectrum of data and relevant information will be accessible via this area. Some data accessible here will be suitable for spatial presentation, while other data/information may be used to develop tabular reports, and still other information may direct the user/stakeholder to other federal or state agencies or other websites. Consistent with the overall objective of the Renewable Energy Tool, the focus is to provide renewable energy stakeholders with socio, agro, forestry, economic, and renewable energy data, information and relevant resources. Presently, useful links to other USDA and other Federal agencies and offices, state level federal/state offices, and financial assistance information are identified.

Department of Agriculture

Energy Financial Assistance Resources

USDA National Laboratories

Agricultural Research Service - Utilization Laboratories

- National Center for Agricultural Utilization Research
- Western Regional Research Center
- Southern Regional Research Center
- Eastern Regional Research Center

Forest Service - National Laboratories

- Forest Products Laboratory
- International Institute of Tropical Forestry
- Northern Research Station
- Pacific Northwest Research Station
- Pacific Southwest Research Station
- Rocky Mountain Research Station
- Southern Research Station

Agricultural Marketing Service

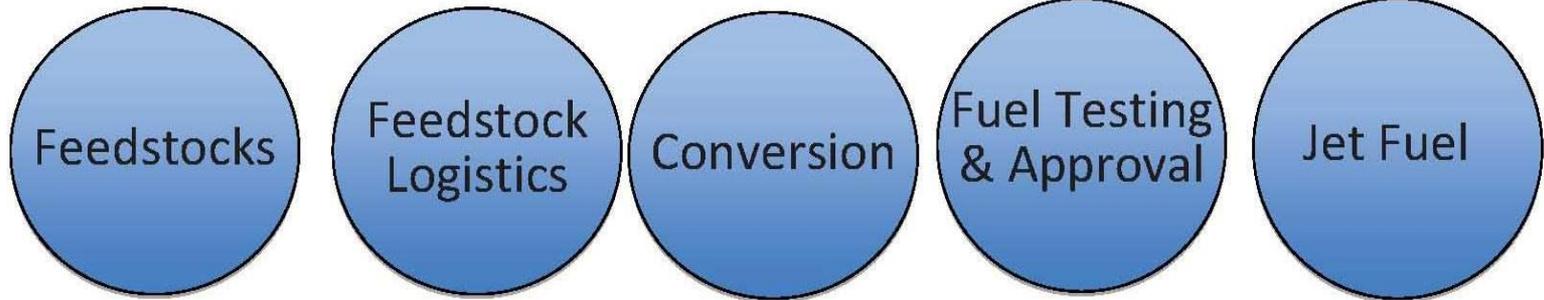
Weekly Ethanol Summary (PDF)

- Provides user with socio, agro, forestry, economic, and renewable energy data, information and resources

Farm to Fly: Sustainable Aviation Biofuel and FAA/USDA Memorandum of Understanding

- **Public-Private Partnership signed in July 2010 by USDA, Boeing and Air Transport Association of America**
- **Accelerate commercially viable, sustainable, aviation biofuel; increase domestic energy security; establish regional supply chains and promote rural development**
- **Use regional opportunities to evaluate: Sustainable Aviation Fuels Northwest, Navy Hawaii Initiative, others**
- **Completion of the Feedstock Readiness Level Tool**
- **Issued Farm to Fly Aviation Biofuel Report Dec 2011**

Whole-government Approach to Aviation Biofuel



A Complete Supply Chain Approach

*USDA & DOE
research &
grant programs*

*USDA
conservation
programs*

*USDA biomass
& risk
assistance
programs*

*DoD & DOE
research
programs*

*FAA & DoD
Q/C
programs*

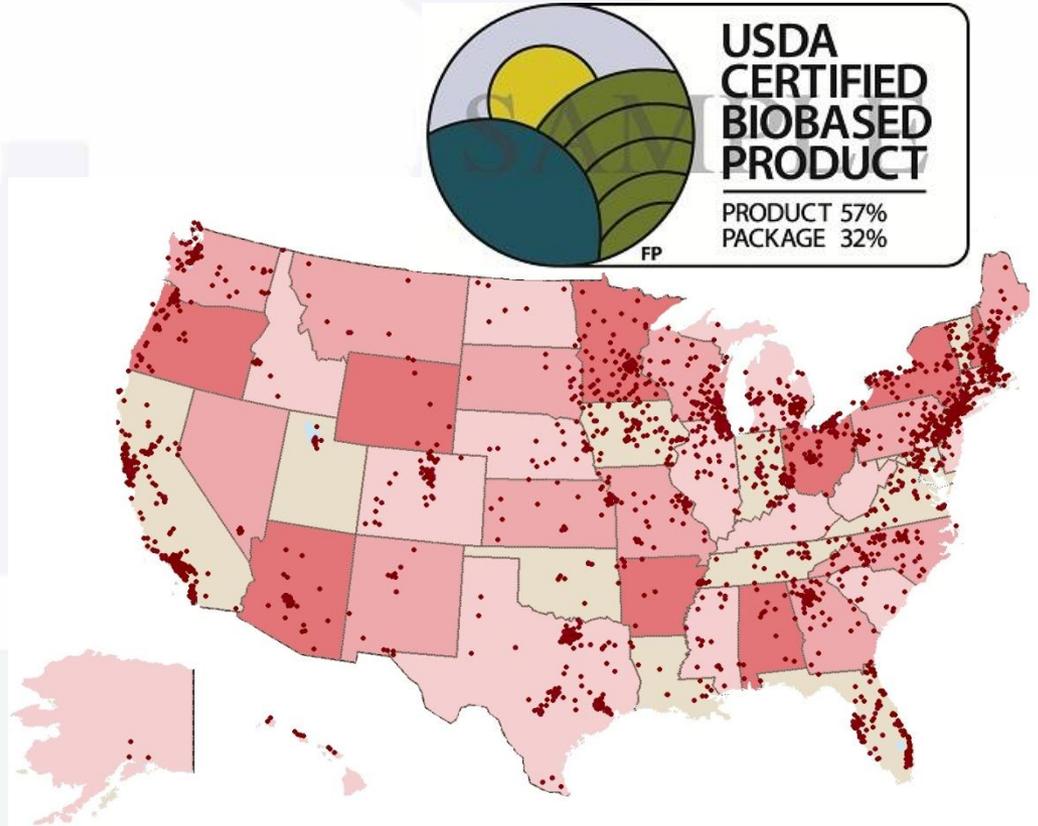
*USDA & DOE
commercial
programs*

*Fuel
purchase
guarantees*



Presidential Memorandum on Biobased Product Procurement

- BioPreferred Program
- 3,100 companies, 100,000+ workers, 25,000 products
- Goal of doubling products/ categories
- Procurement performance goals for new contract actions



Biorefinery Assistance Program

- **7 projects active in the portfolio**
- **INEOS, Freemont Community Digester, and Sapphire Energy have all closed loans**
- **Department continue to work with Enerkem, Coskata, Zechem, and Fiberight applicants**
- **Additional projects announcements expected**
- **Published notice that we are not accepting applications until program reauthorization**

Rural Energy for America Program

- **43 states used over 75% of allocation for FY11**
- **FY11 Project Funding**
 - **Anaerobic Digesters, nearly \$21 million leveraging almost \$90 million in total project development**
 - **Biofuels, nearly \$1 million grants leveraging over \$12 million in total project development**
 - **Solid Biomass Fuel, nearly \$7 million leveraging almost \$24 million in total project development**
- **Funding limited to \$25M, 60% reduction**
- **March 30 grant deadline, June 30 for loan**

Biomass Crop Assistance Program

- **Nine BCAP project areas in FY 2011**
- **More than 850 producer contracts for biomass crops on over 50,000 acres**
- **Camelina, hybrid poplar, warm season grasses and giant miscanthus**
- **Funding limited to \$17 million available, a reduction of 96 percent from funding levels available last spring**

Biomass Research and Development Initiative

- **Two concurrent technical panels convened at NIFA offices January 17-19 and reviewed 45 proposals submitted in response to the FY11, FY12 solicitation is expected soon**
- **Carmela Bailey is scheduled to present today for a full briefing on the grant program**

Resource Links

- www.usda.gov/energy
- www.biopreferred.gov
- <http://www.whitehouse.gov/the-press-office/2012/02/21/presidential-memorandum-driving-innovation-and-creating-jobs-rural-ameri>



Thank You!
Questions and Discussion

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Committed to the future of rural communities.