

USDA



Renewable Energy Programs

*Clean Air Act Advisory Committee-
“Mobile Sources Technical Review
Subcommittee”*

USDA Efforts on Advanced Biofuels

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Crystal City, VA.

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Biofuels Interagency Working Group

On May 5, 2009, President Obama signed the directive establishing a new working group to be chaired by the Secretaries of Energy and Agriculture and the Administrator of the EPA.

The group will work with the National Biomass Research and Development Board on:

- Creating a *biofuel market development program* to boost next-generation biofuels, increase use of flex-fuel vehicles, and assist retail market development
- Coordinating infrastructure policies

President's Steps to Boost Biofuels

- **Comprehensive Strategy**
 - Enhance American Energy Independence
 - Foundation for New Clean Economy
 - New industries and jobs

President's Steps to Boost Biofuels

- Biofuels Working Group Report (Growing America's Fuel)
- Roadmap for accomplishing 36 billion gallon by 2022
- Leveraging resources to support 1st, 2nd and 3rd generation renewable fuels
- Reduce financial risk to farmer, ranchers, and forest land owners to invest (BCAP proposed rule)

USDA's Other Clean Energy Initiatives and Investments

- FY 10 and FY 11 President's Budget
- Support for other Renewable Energy/Energy Efficiency Investments
- Marketing and Outreach
- Evaluation of Program Delivery
- Coordination/collaboration with other Departments

Farm Bill-Title IX-Energy

- Biomass Crop Assistance Program (BCAP)
- Biorefinery Assistance Loan Guarantee Program
- Repowering Assistance Program
- Bioenergy Program for Advanced Biofuels
- Rural Energy for America Program (REAP)
- Biomass Research and Development

Biomass Crop Assistance Program (BCAP) Overview

- Authorized by Section 9011 of the 2008 Farm Bill.
- Program Purpose: Support the establishment and production of crops for conversion to bio-energy in project areas and to assist with the collection, harvest, storage and transportation (CHST) of eligible material for use in biomass conversion facilities.

2008 Farm Bill Title IX and USDA Rural Development Advanced Biofuels Programs



- **Section 9003: Biorefinery Assistance Program –**
 - Provides **loan guarantees** of up to \$250 million for the development, construction and retrofitting of commercial-scale bio-refineries

- **Section 9004: Repowering Assistance –**
 - Provides **payments** to existing bio-refineries to replace fossil fuels used to produce heat or power to operate the bio-refineries with renewable biomass.
 - Five applications under review, ~ \$13.5 million

- **Section 9005: Bioenergy Program for Advanced Biofuels –**
 - Provides **payments** to eligible agricultural producers to support and ensure an expanding production of advanced bio-fuels
 - Payments of \$14.5 million awarded to 136 producers

Section 9003 Biorefinery Assistance

Summary details

- **3 Awards**
 - **Range Fuels Inc., Soperton, Georgia for \$80 million, 1/16/09**
 - **Sapphire Energy, Columbus, New Mexico, \$54.5 million, 12/4/09**

- **17 applications received**

- **Technologies:**
 - **Cellulosic ethanol (4)**
 - **Biodiesel (6)**
 - **Green diesel from pulpwood (paper mill)**
 - **Anaerobic digesters (3)**
 - **Other (4)**
 - **Anhydrous ammonia**

Section 9007 -- Rural Energy for America Program (REAP)

- Formerly Section 9006 – Renewable Energy Systems and Energy Efficiency Improvements Program (Established in '02 Farm Bill)
- Provides grants and loan guarantees to assist agriculture producers and rural small businesses in purchasing renewable energy systems and making energy efficiency improvements
 - Grants up to \$500,000 or 25% of total project costs
 - Loan guarantees up to \$25 million
- Establishes a grant program for energy audits, renewable energy development assistance, and feasibility studies

Renewable Energy Investments, 2003 - 09

Renewable Energy Systems and Energy Efficiency Conversion Projects

Technology	Number of Projects	Grants, Loans, & Combos Amount	Amount Leveraged
Biomass	320	89,993,200	380,365,833
Wind	361	73,651,189	641,098,744
Solar	274	14,077,343	37,930,249
Geothermal	99	3,080,395	8,374,339
Hybrid	22	2,935,648	86,720,575
Hydropower	4	1,064,432	2,475,253
Subtotal	1,080	184,802,207	1,156,964,993
Energy Efficiency	2,428	80,566,465	192,211,677
EA/REDA	22	2,173,631	
Feasibility Study	50	1,244,600	
Combined Funding Activities	3,580	268,786,903	1,349,176,670

EA/REDA – Energy Audits/Renewable Energy Development Assistance

Farm Bill – Energy Title

Section 9008- Biomass Research and Development

- *Purpose:*

Support of research, development and demonstration on biobased products, biofuels, and biopower.

- *Eligible Recipients:*

Institutions of Higher Learning; National Laboratory; Federal Research Agency; State Research Agency; Private Sector Entities and Nonprofit Organizations or a consortium of two or more of entities described above.

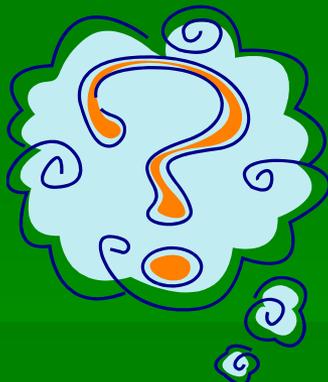
Program Delivery

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- 47 State Offices
- Area/Local Offices

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Any Questions?

