Status and Path Forward for Select USDA Energy Programs

February 8, 2012
Welcome!

Introductions and Objectives

Ernie Shea
25x’25 Project Coordinator
Webinar Objectives

- Provide a progress report on key USDA Energy Title Programs
- Review USDA’s new web-based energy investment map, tools, and resources for energy project and development information
Session Leaders

- **Ernie Shea**, 25x’25 – moderator
- **Tony Crooks**, Renewable Energy Policy Specialist, USDA Rural Development
- **Kelly Novak**, Program Manager, Biomass Crop Assistance Program, USDA Farm Service Agency
- **Todd Campbell**, Acting Alternative Energy Advisor, USDA Rural Development
Webinar Procedures

- Lines will be muted during presentations to minimize background noise
- For presenters and Q&A, un-mute by pressing *6
- Will take questions at the end of the presentations
- To ask a question, either press *6 to un-mute your line, or use the comment feature to submit a written question online
USDA Rural Development

Title IX Energy Programs Update

Tony Crooks
USDA Rural Development
• Increasing economic opportunity in rural America
• Improving the quality of life of all rural Americans
Food, Conservation, and Energy Act 2008
Title IX -- Renewable energy programs administered by USDA Rural Development

- Section 9003 -- Biorefinery Assistance Program
- Section 9004 -- Repowering Assistance Program
- Section 9005 -- Advanced Biofuels Payment Program
- Section 9007 -- Rural Energy for America Program (REAP)
Section 9003 - Biorefinery Assistance Program

- Provides grants for demonstration scale and loan guarantees for commercial scale biorefineries that produce advanced biofuels
- Guaranteed Loan Limitations:
  - Up to $250 Million for Biorefineries
- Grant Limitations: Pilot/Demonstration Scale –
  - Up to 50% of project costs *(Funds not appropriated)*

- Mandatory Funding:
  - FY 2009 - $75 Million
  - FY 2010 - $245 Million available until expended
  - FY 2012 – NOFA published 1/27/2012 No Funds Available
Biorefinery Assistance Program

“First of its kind” investments to date

Loan note guarantees issued:

- **Range Fuels, Inc.**, Georgia, $80 million, 2/10/10.
- **Freemont Community Digester**, Michigan, $12.85 million, 7/19/11.
- **INEOS New Planet BioEnergy**, Florida, $75 million, 8/12/11.
- **Sapphire Energy, Inc.**, New Mexico, $54.5 million, 10/21/11
Biorefinery Assistance Program
Conditional Commitments Issued

- **Enerkem Corporation**, Mississippi, $80 million
  - Cellulosic ethanol from woody biomass
- **Coskata, Inc.**, Alabama, $87.85 million
  - Cellulosic ethanol from woody biomass
- **Fiberight, LLC**, Iowa, $25 million
  - Cellulosic ethanol from municipal solid waste
- **ZeaChem Boardman Biorefinery, LLC**, Oregon, $232.5 million
  - Cellulosic ethanol from woody biomass and agricultural residue
Biorefinery Assistance

Other details

Program Applicant

- Qualified lender that is seeking the Guarantee

- Notice of Funds Availability, January 27, 2012
Rural Energy for America Program (REAP)
Food, Conservation, and Energy Act 2008

NOFA, January 20, 2012

USDA Rural Development
Committed to the future of rural communities.
Rural Energy for America Program

- Three Purposes under REAP
  
  - **Energy Audit and Renewable Energy Development Assistance (EA-REDA)** Grants; application deadline, February 20, 2012
    
Grant Program Funding Limits

- **Renewable Energy Systems**
  - Maximum grant - up to 25% of total eligible project costs or $500,000 which ever is less
  - Minimum grant - $2,500

- **Energy Efficiency Improvements**
  - Maximum grant - up to 25% of total eligible project costs or $250,000 which ever is less
  - Minimum grant - $1,500

- **Feasibility Study**
  - Maximum grant - up to 25% of total eligible project costs or $50,000 which ever is less
  - No minimum grant

- **Energy Audit and Renewable Energy Development Assistance**
  - Maximum grant of $100,000
  - No minimum grant
Renewable Energy Systems (RES) and Energy Efficiency Improvements (EEI)
Types of Assistance

- Grant
- Guaranteed Loans
- Loan/Grant Combinations
Rural Area requirement

• Small Business applicants need to be located in an area with population less than 50,000 and rural in nature (condensed)

• Agricultural Producers are not subject to the rural area restriction
Rural Energy for America Program
Guaranteed Loans

- Maximum loan - up to 75% of total eligible project costs or $25,000,000 which ever is less (including grant funds, if applicable)
- Minimum loan - $5,000
Energy Audits (EA) and Renewable Energy Development Assistance (REDA)
EA/REDA

Applicant Eligibility

1) Unit of State, tribal, or local government,
2) Land-grant college or university
3) Rural electric cooperative
4) An instrumentality of a State, tribal, or local government
Feasibility Studies
Feasibility Studies

Purpose – conduct Feasibility Studies for renewable energy systems.

Assess Feasibility of:
- Economic
- Market
- Technical
- Financial
- Management
Feasibility Studies

Project eligibility

1) Be for the purchase, installation, expansion, of a renewable energy system;
2) Located in a State;
3) Facility located in a rural area (generally);
4) Pre-commercial or commercially available technology;
5) Not have had a FS already completed with Federal or State assistance; and
6) Applicant has a place of business in a State.
Sections 9006 and 9007 Funding Activity

<table>
<thead>
<tr>
<th>Energy Type</th>
<th>Biomass Type</th>
<th>Number of Projects</th>
<th>Grant and Loan Guarantee Investments</th>
<th>Amount Leveraged</th>
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<tbody>
<tr>
<td>ANEROBIC DIGESTER</td>
<td></td>
<td>147</td>
<td>$74,691,457</td>
<td>$205,067,555</td>
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<td>BIODIESEL PRODUCTION</td>
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<td>53</td>
<td>$54,462,100</td>
<td>$107,349,716</td>
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<td>ETHANOL PRODUCTION</td>
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<td>8</td>
<td>$22,095,000</td>
<td>$68,987,803</td>
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<tr>
<td>SOLID FUEL PRODUCTION</td>
<td></td>
<td>31</td>
<td>$18,154,808</td>
<td>$36,260,157</td>
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<td>THERMAL CONVERSION</td>
<td></td>
<td>137</td>
<td>$30,693,593</td>
<td>$71,647,897</td>
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<td>BIOMASS</td>
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<td>376</td>
<td>$200,096,959</td>
<td>$489,313,127</td>
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<tr>
<td>ENERGY EFFICIENCY</td>
<td></td>
<td>4,258</td>
<td>$154,720,413</td>
<td>$282,761,894</td>
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<td>GEOTHERMAL</td>
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<td>139</td>
<td>$4,697,287</td>
<td>$18,222,896</td>
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<tr>
<td>HYBRID</td>
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<td>27</td>
<td>$3,035,912</td>
<td>$186,683,216</td>
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<td>HYDROPOWER</td>
<td></td>
<td>8</td>
<td>$1,754,281</td>
<td>$13,367,351</td>
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<tr>
<td>SOLAR</td>
<td></td>
<td>577</td>
<td>$36,457,291</td>
<td>$77,560,158</td>
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<tr>
<td>WIND</td>
<td></td>
<td>507</td>
<td>$105,723,541</td>
<td>$529,569,708</td>
</tr>
<tr>
<td><strong>Technologies Total</strong></td>
<td></td>
<td><strong>5,892</strong></td>
<td><strong>$506,485,683</strong></td>
<td><strong>$1,597,478,350</strong></td>
</tr>
</tbody>
</table>

Source: USDA Rural Development

Committed to the future of rural communities.
## FY 2011 REAP Investments by technology

### Renewable Energy Systems

<table>
<thead>
<tr>
<th>Renewable Energy Systems Technology</th>
<th>Number of Projects</th>
<th>Grant Amount</th>
<th>Loan Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaerobic Digesters</td>
<td>19</td>
<td>$ 7,798,189</td>
<td>$ 13,102,890</td>
</tr>
<tr>
<td>Biofuels</td>
<td>9</td>
<td>$ 1,586,861</td>
<td>$ -</td>
</tr>
<tr>
<td>Solar</td>
<td>477</td>
<td>$ 14,421,773</td>
<td>$ 5,978,000</td>
</tr>
<tr>
<td>Wind</td>
<td>55</td>
<td>$ 2,988,644</td>
<td>$ 883,483</td>
</tr>
<tr>
<td>Wood to Energy</td>
<td>25</td>
<td>$ 1,292,876</td>
<td>$ 5,000,000</td>
</tr>
<tr>
<td>Flex Fuel Pumps</td>
<td>67</td>
<td>$ 4,308,304</td>
<td>$ -</td>
</tr>
<tr>
<td>Geothermal</td>
<td>59</td>
<td>$ 1,288,173</td>
<td>$ 124,388</td>
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<tr>
<td>Hybrid</td>
<td>14</td>
<td>$ 541,058</td>
<td>$ 179,406</td>
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<tr>
<td>Hydroelectric</td>
<td>7</td>
<td>$ 1,010,001</td>
<td>$ 287,000</td>
</tr>
<tr>
<td>Hydro Power</td>
<td>3</td>
<td>$ 26,517</td>
<td>$ 7,200,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>735</td>
<td><strong>$ 35,262,396</strong></td>
<td><strong>$ 32,755,167</strong></td>
</tr>
</tbody>
</table>

*USDA Rural Development*

Committed to the future of rural communities.
Thank you!

Kelley Oehler
USDA, Rural Development
202-720-6819
Kelley.Oehler@wdc.usda.gov

Tony Crooks
USDA, Rural Development
202-205-9322
Anthony.Crooks@wdc.usda.gov
February 8, 2012

25 x ’25

Kelly Novak,
Program Manager,
Biomass Crop Assistance Program
(BCAP)
BCAP Authorization & Overview
BCAP

• The purposes of the program are to:

  **Project Areas**

  – Support the establishment and production of eligible crops for conversion to bioenergy

  **Matching Payments**

  – Assist agricultural and forest landowners and operators with the collection, harvest, storage, and transportation of eligible material for use in biomass conversion facilities (BCF’s).
BCAP Authorization

• BCAP was authorized by Section 9011 of the Farm Security and Rural Investment Act of 2002 as amended by the Food, Conservation, and Energy Act of 2008
  — Title IX in the 2008 Farm Bill is the Energy Title

• The final rule was published in the Federal Register on October 27, 2010 – 7 CFR 1450.

• Interim Rule September 15, 2011 (76 FR 56549-56951). The interim rule establishes the CCC’s intention of prioritizing project area over matching payments.
Current Funding Authorization:


BCAP Project Area Overview:

BCAP project areas are authorized to establish a distinct geographic region in which participants can enroll land into BCAP contracts and produce eligible crops.
## BCAP Project Areas: FY 2011 Sign Up

<table>
<thead>
<tr>
<th>Project Area</th>
<th>Acres of FY2011 Target Achieved</th>
<th>Sign Up Start &amp; End Dates FY 2011</th>
<th>Crop &amp; Conversion Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Area 1: 39 counties KS &amp; MO</td>
<td>19,995 acres</td>
<td>May – Sept.</td>
<td>Native Grasses Fuel Pellets</td>
</tr>
<tr>
<td>Project Area 2: 8 counties AR</td>
<td>6,588 acres</td>
<td>June – Sept.</td>
<td>Miscanthus Fuel Pellets</td>
</tr>
<tr>
<td>Project Area 3: 9 counties MO</td>
<td>3,120 acres</td>
<td>June – Sept.</td>
<td>Miscanthus Fuel Pellets</td>
</tr>
<tr>
<td>Project Area 4: 7 counties MO</td>
<td>3,041 acres</td>
<td>June – Sept.</td>
<td>Miscanthus Fuel Pellets</td>
</tr>
<tr>
<td>Project Area 5: 7 counties OH &amp; PA</td>
<td>3,658 acres</td>
<td>June – Sept.</td>
<td>Miscanthus Fuel Pellets</td>
</tr>
<tr>
<td>Project Area 6: 6 counties OR</td>
<td>590 acres</td>
<td>August – Sept.</td>
<td>Camelina Biodiesel</td>
</tr>
<tr>
<td>Project Area 8: 90 counties CA, WA &amp; MT</td>
<td>2,300 acres</td>
<td>August – Sept.</td>
<td>Camelina Jet Fuel Drop-In</td>
</tr>
<tr>
<td>Project Area 9: 1 county OR</td>
<td>7,002 acres (9 years staggered establishment)</td>
<td>August – Sept.</td>
<td>Hybrid Poplar Biobased Products &amp; Biofuels</td>
</tr>
<tr>
<td>10 States / 168 Counties</td>
<td>49,908 acres</td>
<td>5 months to 1.5 months</td>
<td>4 crops / 5 output types</td>
</tr>
</tbody>
</table>

NOTE: 4 counties in MO & 1 county in WA overlap in project areas.
BCAP Contracts

BCAP Contract participants may be eligible for:

• Reimbursements of up to 75% of the cost of establishing a bioenergy **perennial** crop

• Annual Payments of **up to**:
  – 5 years for eligible annual and non-woody perennial renewable biomass crops
  – 15 years for eligible woody perennial renewable biomass crops.
Project Area Enrollment Limitations

Enrollment in a BCAP project area may be limited by:

- The number of acres
- The availability of funds
Project Area Proposal, Review & Approval Process
**Project Area Approval Process**

**Proposal Submission**

- A Request for Proposal (RFP) outlines the process.

**National Review**

- Interagency team reviews completed proposals & recommends selections.

**TIMELINE**

Next national review cycle the proposal should be submitted by the announced date (TBD).

Review periods will be scheduled and announced by Farm Service Agency (FSA).
Project Area Approval Process, cont.

**TIMELINE**

Following the review, those selected proposals will: (1) Project Sponsor finalize project area terms.

Timing will be coordinated with Project Sponsor.

**PROCESS**

**Final Agreement**

- After consensus reached a final letter of Agreement signed with Project Sponsor.

**Announcement**

- FSA offices and the Project Sponsor conduct outreach, training, and promotional activities for signup.
Contract Eligibility Provisions for Project Areas
Eligibility Provisions

• Eligibility to enroll land under a BCAP contract is limited to the geographic area established by each approved project.

• Eligibility criteria is applicable to the following:
  – Person
  – Crop
  – Land.
For approved project proposals, an eligible producer must meet all of the following criteria to enter into a BCAP contract:

- be an owner or operator of agricultural or Non Industrial Private Forest Land (NIPF)
- comply with 6-CP requirements for Highly Erodible Lands (HEL) and Wetlands Conservation (WC)
- agree to grow eligible crops on the enrolled acreage.
Eligible Land

• Agricultural land
  – Cropland, grassland, hayland and pastureland
  – other lands on which food and fiber or other agricultural products can be produced

• Non-industrial Private Forestland (NIPF)

• Land enrolled in other USDA programs may be eligible for BCAP provided the land would not earn benefits for the same purpose under other USDA programs and the practice measures do not conflict with BCAP.
Ineligible land

• Federal-owned or State-owned land

• Land that is any of the following:
  – native sod as of June 18, 2008
  – enrolled in CRP, WRP or GRP
  – unsuitable for growing an eligible crop
  – subject to restrictions such as easements or conveyances that conflict with production of eligible crops.
Eligible Crops

• Renewable biomass crops suitable for planting on agricultural land or NIPF in the project area
• Only the crops listed in an approved project area are eligible
• Title 1 crops are not eligible for enrollment
Other key eligibility items

- Foreign producers are eligible
- AGI is not applicable
- No payment limitations
- No minimum acreage
- No cropping history requirement
- No base acre reduction required
- No express conflict with NRC’S programs CSP or EQIP
Contracted Producer Payment Information

• All (5 or 15) years annual rental contract and the establishment cost-share are obligates or set aside at the time of contract approval.

• Annual contract payment date is the anniversary date of the contract effective date.

• Producers have the option to take 50% advance of first year payment at approval.
Questions (?)

Contact:
Kelly.Novak@wdc.usda.gov
or
202.720.4053
USDA Energy Website: Energy Investment Map, USDA Energy Program Matrix, Renewable Energy Tool

Todd Campbell, Acting Alternative Energy Advisor USDA Rural Development

February 8, 2012
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.

Download USDA’s Advancing Renewable Energy brochure for an overview of USDA’s energy related programs, and how USDA collaboration efforts are making a measurable impact in the world of renewable energy.
USDA Renewable Energy Investments Map

The Renewable Energy Investments web map contains information regarding USDA programs that provide assistance to renewable energy and energy efficiency projects. The map displays investment location, type of energy investment, amount of assistance provided and the administering USDA program. The energy investment data is also summarized by state, county and congressional districts to display total number of investments and total dollar amounts obligated by USDA.

Click here to view the Renewable Energy Special Projects Report.
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Investment Totals by Congressional District (Data from 2003 - Sept 30, 2011)

<table>
<thead>
<tr>
<th>Representative</th>
<th>Greg Walden</th>
</tr>
</thead>
<tbody>
<tr>
<td>Party</td>
<td>Republican</td>
</tr>
<tr>
<td>District</td>
<td>4102</td>
</tr>
<tr>
<td>State</td>
<td>OR</td>
</tr>
<tr>
<td>Total Number of Investments</td>
<td>124</td>
</tr>
<tr>
<td>Total Investment Amount ($)</td>
<td>6,245,641.09</td>
</tr>
</tbody>
</table>
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The Renewable Energy Tool

USDA’s Renewable Energy Tool is a web based tool that is in work in progress. The vision of the Tool is to identify “renewable energy opportunities” by providing stakeholders access to agro-, economic, socio- and technical data and information resources that are relevant to the evaluation of potential opportunities. These opportunities are anticipated to range across feedstock production, to bioenergy production, bioenergy use, and production, bioenergy and other product and use. Types of data and information include but are not limited to: land use for producing biomass and bioenergy crops, competition for biomass, blending terminals, USDA guidance for and financial assistance, and state and federal energy, environmental protection, and similarly.

Additional Renewable Energy Resources

The Additional Renewable Energy Resources area is in work in progress. A broad spectrum of data and information will be accessible to this area. Some data accessible here will be future suitable for spatial presentation, while other data/information may be used to develop tutorial 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-economic, economic, and renewable energy data, information, and relevant resources. Presently, useful links to other USDA and other Federal agencies and of State, and federal 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 Product 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)
**Renewable Energy Resources Map**

The Renewable Energy Resources mapping facility is under development and additional data layers representing socio, agro, forestry, economic, and renewable energy concepts will be added. Currently, select socio-economic concepts can be viewed at the national, state and county levels for population, unemployment, and poverty. For agriculture, conservation reserve program (CRP) grassland acreage due to expire by year, 2011-2020, is presented. The location of blending terminals and biofuel type blended at the terminal is included. (Data Sources: Oil Price Information Service (OPIS), Petroleum Terminal Encyclopedia, 2009; Esri)
Questions?

todd.campbell@osec.usda.gov
Questions and Discussion

Photo credit: New Mexico State University
Thank you!

www.25x25.org