

2009 BRDi Solicitation

- DOE (Golden) leads pre-application process
 - ✓ *Due March 6th*
- CSREES leads full application process
 - ✓ *Due June 11*
- Final selections: *July 28*
- Awards: *September 30*
- Feedstock development includes industrial biobased products
- Environmental/economic LCA requested for all proposals



Energy Title (2008 Farm Bill) , Section 9003
Biorefinery Assistance

- Notice of Funding Availability/Advance Notice of Proposed Rule – *November 20th*
- Loan Guarantee Applications – 2 Windows
 - *November 20, 2008 – December 31, 2008*
 - *March 01, 2009 – April 30, 2009*
- FY'09 – \$75 million



Energy Title (2008 Farm Bill) , Section 9003
Biorefinery Assistance (*cont.*)

- First Window
 - 3 of 5 applications were incomplete
 - 1st Loan Guarantee Award announced
January 16, 2009
 - Remaining application under review



Energy Title (2008 Farm Bill) , Section 9003
Biorefinery Assistance (*cont.*)

- Range Fuels, LLC – Soperton, GA
 - cellulosic ethanol from wood chips
 - 2010 start up
 - 20 million gallons/year
 - \$80 million loan guarantee



Energy Title (2008 Farm Bill), Section 9004
Repowering Assistance

- Replace fossil fuel for heat/power in existing biorefineries
- NOFA (*Notice of Funding Availability*) target date – July 31, 2009
- FY'09 - \$35 Million (*mandatory funding; can carry over*)



Energy Title (2008 Farm Bill) Section 9005

Bioenergy Program for Advanced Biofuels

- Payments to eligible producers to support and ensure expanded production of advanced biofuels
- Notice of Contract Proposals
 - Projected publication – *March 13*
 - 30 day window for application submissions
- FY'09 - \$55 million (*mandatory funding*)



Energy Title (2008 Farm Bill) Section 9007
Rural Energy for America Program

- Formerly Section 9006 (*Renewable Energy Systems and Energy Efficiency Improvements Program*) & Section 9007 (*Rural Energy for America Program*)
- Grant and loan guarantee program to assist agriculture producers and rural small businesses purchasing renewable energy systems and making energy efficiency improvements
- Grant Program for energy audits, technical assistance and feasibility studies



Energy Title (2008 Farm Bill) Section 9007
Rural Energy for America Program (*cont.*)

- FY'09 – \$55 million (*mandatory funding*)
- Notice of Funding Availability
 - Energy audits – estimated date for publication is ??
 - Feasibility studies and grant/loan guarantee for renewable energy projects/energy efficiency improvements – estimated publication is ??



Section 9006 Funding FY2003 thru 2008

Renewable Energy/Energy Efficiency

<u>Technology</u>	<u>No.</u>	<u>Amount</u>	<u>Leveraged</u>
Biomass	271	\$65,188,772	\$321,322,470
Wind	245	48,008,511	582,427,329
Solar	108	4,683,405	11,207,057
Geothermal	52	1,969,517	4,576,639
Hybrid	<u>18</u>	<u>2,620,736</u>	<u>85,968,197</u>
Subtotal	694	\$122,470,941	\$1,105,501,692
 <u>Energy Efficiency</u>	 1,329	 \$34,456,722	 \$76,743,867
Subtotal	2,023	\$156,927,663	\$1,182,245,559
 <u>Guaranteed Loans</u>	 <u>153</u>	 <u>\$91,529,855</u>	 <u>\$181,321,296</u>
Grand Total	2,176	\$248,457,518	\$1,612,024,373

Energy Title (2008 Farm Bill) Section 9011

Biomass Crop Assistance Program

www.fsa.usda.gov/Internet/FSA_File/2008fbbcapsummary.pdf

Three Payments...

1. Establish perennial feedstock crop (*up to 75%*)
2. Land rental for perennial feedstock production (*level depends on local market conditions*)
3. Collect, harvest, store, and transport biomass crops for biorefining
 - **match biorefinery payment**
 - **up to \$45/ton for 2 years**



Energy Title (2008 Farm Bill) Section 9012

Forest Biomass For Energy

- Competitive R&D program to encourage use of forest biomass for energy
- Implementing Agency: Forest Service (R&D)
- Priorities:
 - develop technology and techniques to use low-value forest biomass, such as byproducts of forest health treatments and hazardous fuels reduction, for the production of energy;
 - develop processes that integrate production of energy from forest biomass into biorefineries or other existing manufacturing streams;
 - develop new transportation fuels from forest biomass; and
 - improve the growth and yield of trees intended for renewable energy production
- Authorization: \$15 million/yr 2009-2012



Energy Title (2008 Farm Bill) Section 9013
Community Wood Energy Program

- Encourage development of community wood energy plans and/or acquire or upgrade community wood energy systems.
- Implementing Agency: Forest Service (S&PF)
- Assistance:
 - Competitive grants
 - Demonstrations
 - Contracts for services
 - Direct technical assistance.
- Authorization: \$5 million per year (2009-2011)



USDA Energy Cross-Cut

- Requested after USDA-wide OIG Renewable Energy Audit
- An Inter-Agency Working Group working with OBPA
- Cross-cut to reflect **ALL** USDA renewable energy programs
- MAJOR CATEGORIES
 - *Commercialization*
 - *Research and Development*
 - *Outreach and Education*
 - *Energy Efficiency and Conservation*



National Academy of Sciences Biofuel Study

- Combines mandated biofuel studies in ESIA and Farm Bill
- Include impacts on rural communities
- Analysis reflects future prices and technology changes
- Contract was to have been executed before Jan 1st
- Co-funded by USDA and DOE

