



USDA



Rural Development

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**Biomass *R&D* Technical Advisory
Committee Meeting
Washington, D.C.
May 20, 2008**

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Biomass Initiative FY 2007

Solicitation Results

- *Summary:*
 - *676 Preapplications reviewed by Merit Review Committee*
 - *153 Invited to file full application*
 - *144 Applications were received*
 - * *Topic Area 1 – Feedstock Production (45)*
 - * *Topic Area 2 – Overcoming Recalcitrance of Cellulosic Biomass (36)*
 - * *Topic Area 3 – Product Diversification (46)*
 - * *Topic Area 4 – Analysis Providing Strategic Guidance (17)*



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Biomass Initiative FY 2007

Solicitation Results

- Results of Awards
 - 21 Projects Awards Selected

	<u>Number</u>	<u>Dollars</u>	<u>Total Cost Federal and Non-Federal</u>
* <i>Topic Area 1</i>	(4)	(\$3.6M)	(\$3.4M)
* <i>Topic Area 2</i>	(9)	(\$8.1M)	(\$7.7M)
* <i>Topic Area 3</i>	(7)	(\$5.8M)	(\$5.1M)
* <i>Topic Area 4</i>	<u>(1)</u>	<u>(\$715,340)</u>	<u>(\$895,184)</u>
<i>Totals</i>	(21)	(18.4M)	(\$25.1M)



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FY 2007 Biomass R&D Awards Technical Area Breakout

Technical and Sub Technical Areas	Submitted	% of Total Submitted	Recommended by Technical Committee	Awarded
Feedstock Development	45	31.3%	6	4
Agricultural Feedstock Development	37	25.7%	6	4
Forest Feedstocks	8	5.6%	0	0
Overcoming Recalcitrance	36	25.0%	12	9
Thermochemical, Integrated Biorefinery Systems	33	22.9%	10	7
Biodiesel/Ethanol Catalytic Synthesis and Glycerol Catalytic Upgrading	3	2.1%	2	2
Product Diversification	46	31.9%	9	7
Biodiesel/Ethanol Catalytic Synthesis and Glycerol Catalytic Upgrading	11	7.6%	2	1
Specific Process Component Research	30	20.8%	6	5
Anaerobic Digestion and Related Research	2	1.4%	1	1
Forest Biorefineries	3	2.1%	0	0
Analysis and Strategic Guidance	17	11.8%	6	1
Public Policy/Support for Deployment	17	11.8%	6	1
Totals	144		33	21



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Farm Bill Update

- Federal Procurement of Biomass Products
 - Federal Agencies purchase biobased products and authorizes voluntary biobased labeling
 - Reauthorized until 2012
 - Mandatory Funding:
 - * FY 2008 - \$1 Million
 - * FY 2009 - 2012 - \$2 Million each Fiscal Year



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Farm Bill Update – (Continuation)

- Biorefineries Assistance
 - Provides grants for demonstration scale and loan guarantees for commercial scale Biorefineries that produce advanced Biofuel
 - Guaranteed Loan Limitations:
 - * Up to \$250 million for Biorefineries
 - Grant Limitations:
 - * Pilot/Demonstration Scale – Up to 50% of project costs
 - Mandatory Funding:
 - * FY 2009 - \$75 Million
 - * FY 2010 - \$245 Million available until expended



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Farm Bill Update – (Continuation)

- Repowering Assistance:
 - Payments to replace fossil fuel used to produce heat or power to operate existing biorefineries
 - Mandatory Funding:
 - FY 09 - \$35 million available until expended

Farm Bill Update – (Continuation)

- Rural Energy for America Program
 - Amends current Section 9006 Renewable Energy Systems and Energy Efficiency Improvement Program
 - Loan Guarantee Limits:
 - * \$25 million Cap
 - * Cap Federal share at 75% of project costs
 - Other Provisions:
 - * Cost share grants for energy audits and feasibility studies (Senate)
 - * Production incentive program in lieu of grants
 - Funding – mandatory:
 - * FY 09 - \$55 million
 - * FY 10 - \$60 million
 - * FY 11 - \$70 million
 - * FY 12 - \$70 million
 - Discretionary Funding: \$25 million each fiscal year for FY 09 - 12



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Farm Bill Update – (Continuation)

- Biomass Research and Development
 - Repeals Title III of Agriculture Risk Protection Act of 2000 (P.L. 106-224) and reauthorizes it through 2012 under Farm Bill
 - Senate provides some flexibility on distribution of funds between technical areas
- Mandatory Funding:
 - FY 09 - \$20 million
 - FY 10 - \$28 million
 - FY 11 - \$30 million
 - FY 12 - \$40 million
- Discretionary Funding: FY 09 – 12 - \$35 million per fiscal year



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Farm Bill Update – (Continuation)

- Community Wood Energy Program:
 - Grant program to assist with community wood energy feasibility studies and plans and acquire and upgrade community wood energy system
 - Funding:
 - * \$5 million per year (FY 08–12) – (Senate–discretionary)
 - * \$75 million over 5 years (House – mandatory)



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Farm Bill Update – (Continuation)

- Renewable Energy Committee:
 - Committee shall study the scope and effectiveness of research, extension and economics programs affecting renewable energy industry
 - Annually submit a report on findings and recommendations to National Research, Extension, Education and Economics Advisory Board
 - Consultation with Biomass Research and Development Technical Advisory Committee



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Farm Bill Update – (Continuation)

- Agricultural Bioenergy Feedstock and Energy Research and Extension Initiative:
 - Purpose is to enhance the production of biomass energy crops and energy efficiency of agricultural operation
 - Focus is on improving agricultural biomass production, biomass conversion in biorefineries and biomass use
 - Awards competitive grants in consultation with National Research, Extension, Education and Economic Advisory Board
 - Discretionary Funding: \$50 million end of FY 08 - 12



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Farm Bill Update – (Continuation)

- Agricultural and Rural Transportation Research and Education:
 - Research and Education on rural transportation and logistics needs of Ag-producers and related rural businesses including:
 - Transportation of biofuels
 - Export of Ag products
 - Competitive grant awards to institution of higher education in consultative with DOT
 - Discretionary Funding: FY 08-12 - \$5 million annually



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Farm Bill Update – (Continuation)

- Specialty Crop Research Initiative:

- Address critical needs of the specialty crops industry by developing and disseminating science-based tools

- Funding:

- Mandatory Funding	FY 08	\$30 million
	FY 09 – 12	\$50 million each FY
- Discretionary Funding	FY 08 – 12	\$100 million annually



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QUESTIONS



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