Biomass Research and Development Initiative

Current Status

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Biomass Research and Development Initiative (2009-2012)

- $118 M supporting 25 projects
  - Advanced Biofuels
  - Bioproducts
  - Biobased chemicals

- Technical Areas
  - Feedstock Development
  - Fuels/Product Development
  - Development Analysis (LCA)
Process

• Broad eligibility
• Pre-application Review overseen by DOE
• Full Application Review overseen by USDA
• Awards made by each Department
  – No comingling of funds between Departments
  – No comingling of R&D and Demonstration
Applications and Budget

• 414 LOI/Pre-applications

• 47 Full Proposals

• $67.72 Million ask
  – USDA Combined year budget ~$7.2 Million
  – DOE up to $3 Million
Topical Areas

• Feedstock Development: 7

• Biofuels/Bioproducts Development: 36

• Systems Analysis: 4
Review Committee

• 14 Members plus a Panel Manager
  – 3 Federal Scientists
  – 3 Industry representative
  – 6 Academia representatives
  – 2 Private Consultants
Committee Diversity

- 6 Females
- 5 Minority
- 12 States Represented
- 8 Former BRDI Panelists
- 4 Members of the TAC involved
USDA Awardees

• “Integrated biorefinery to produce ethanol, high value polymers, and chemicals from lignocellulosic biomass”

  – University of California-Riverside
    • University of Tennessee
  – $1.3 Million
USDA Awardees

• “Cotreatment for low-cost fermentation of cellulosic biomass”
  – Dartmouth College
    • Penn State, Bioenergy Science Center, Enchi Corp.
  – $1.8 Million
USDA Awardees

• “Development of stochastic techno-economic and life cycle models for quantifying the economic and environmental costs of cellulosic bioenergy”
  – State University of New York
  – $907,000
USDA Awardees

“Forest bioenergy and biofuels integration: Sustainability, energy balance, and emissions from forest restoration in the southern Rocky Mountains”
  – University of Montana
    • University of N. Arizona, USFS RMRS
  – $1.3 Million
USDA Awardees

• “Mid-Atlantic Biomass Sorghum Collaborative to Optimize Agronomic Production and Grower Profitability ”
  – North Carolina Biotechnology Center
    • NCSU, Virginia Tech, Chemtex International
  – $1.9 Million
DoE Awardees

• “Improving tolerance of yeast to lignocellulosic feedstocks and products”
  – Massachusetts Institute of Technology

• “Biomass gasification for chemical production using chemical looping techniques”
  – Ohio State University

• 8 Industrial partners