

Biomass Research and Development
Technical Advisory Committee's
Recommendations to the Biomass
R&D Board

November 28, 2007
Arlington, Virginia

Achieving 20 in 10 is a Massive Undertaking

The agencies should study the full scope and implications across the value chain to understand the impact of trying to meet 20 in 10 and the gaps



Feedstocks

- Research on sustainable, high yielding, high energy density feedstocks
- 1 Billion tons is 1.6 X all current grain production



Processing & Conversion

- R&D on high yield processes to liquid biofuels, bioproducts & bioenergy



Infrastructure

- Investment for economical storage & transportation of feedstocks to plants and products to consumers



End-Use-Markets

- Development of end use markets via enabling research, education and incentives

Overview of Committee's Recommendations

The agencies should focus on the economic use of biomass for petroleum (fossil fuel) displacement by support of diversified R&D into process to make new biofuels and bioproducts, and the supply and logistics feedstock and distribute the products

Details of the Committee's recommendations can be found in the "2007 Roadmap for Bioenergy and Biobased products in the United States" and "2007 Biomass R&D TAC Recommendations to the Secretaries of DOE and USDA

Committee has Identified these Opportunities

- The current budgetary commitment is not sufficient to achieve 20 in 10 – identified under funded areas:
 - Feedstocks
 - Infrastructure – feedstocks & products
 - Development of new biofuels & fuel compatibility
- Continue the trend of moving away from the historically narrow focus on ethanol and biodiesel
- The committee needs to be informed as to the cross efforts between biomass and fossil energy
- The committee should be utilized to advise the agencies on the research planning