



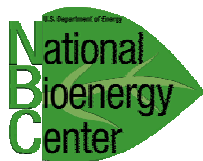
The Role of Biomass in America's Energy Future



U.S. Department of Energy's Interest in This Project

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The Role of Biomass
in America's
Energy Future

Outline

- Who are we?
- What is our role?
- What are we about?
- Why this project?



Office of Energy Efficiency and
Renewable Energy

Office of the Biomass Program

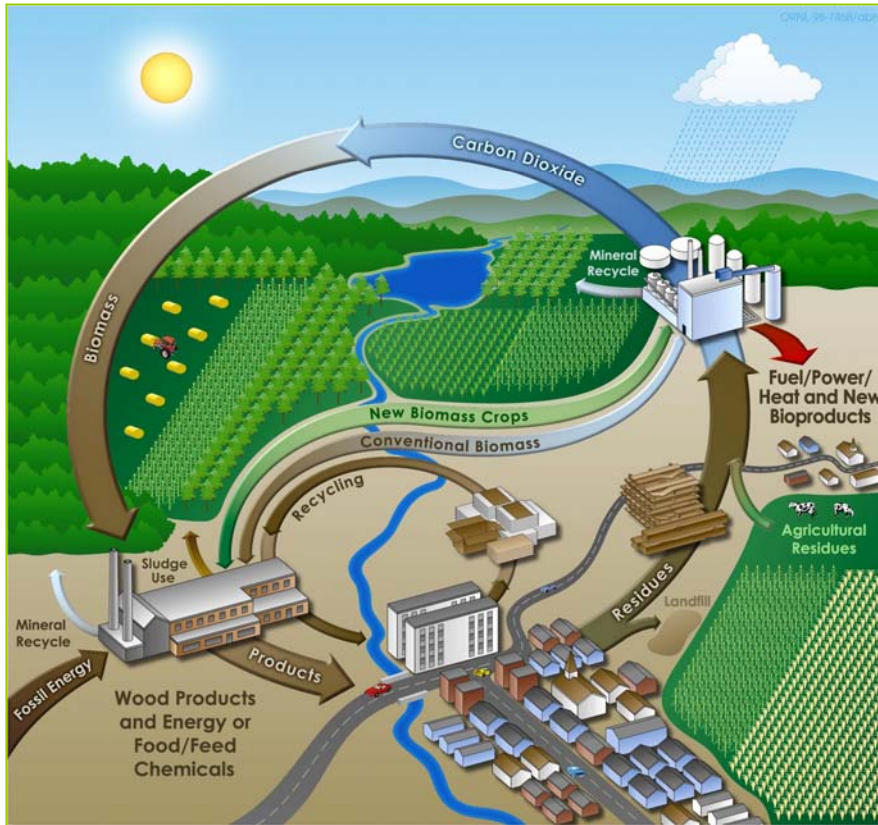


Who are we?

- The Office of the Biomass Program
 - Consolidation of several previously separate programs including
 - Biopower
 - Biofuels
 - Bioproducts
 - Biomass Feedstock Development Program
 - Shift from a collection of loosely aligned technology programs to a single, aligned effort to provide bio-based alternatives to petroleum



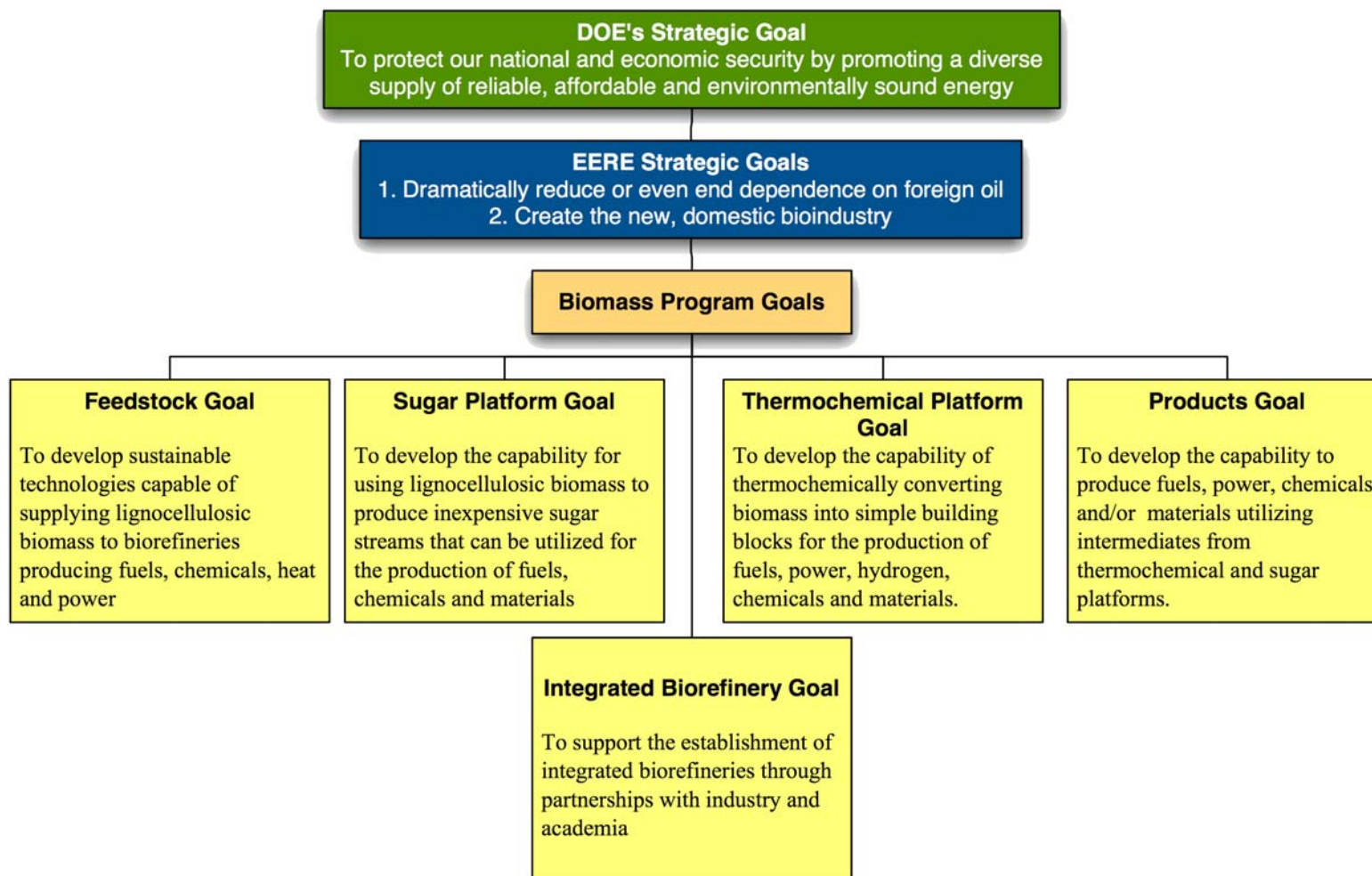
Who are we?



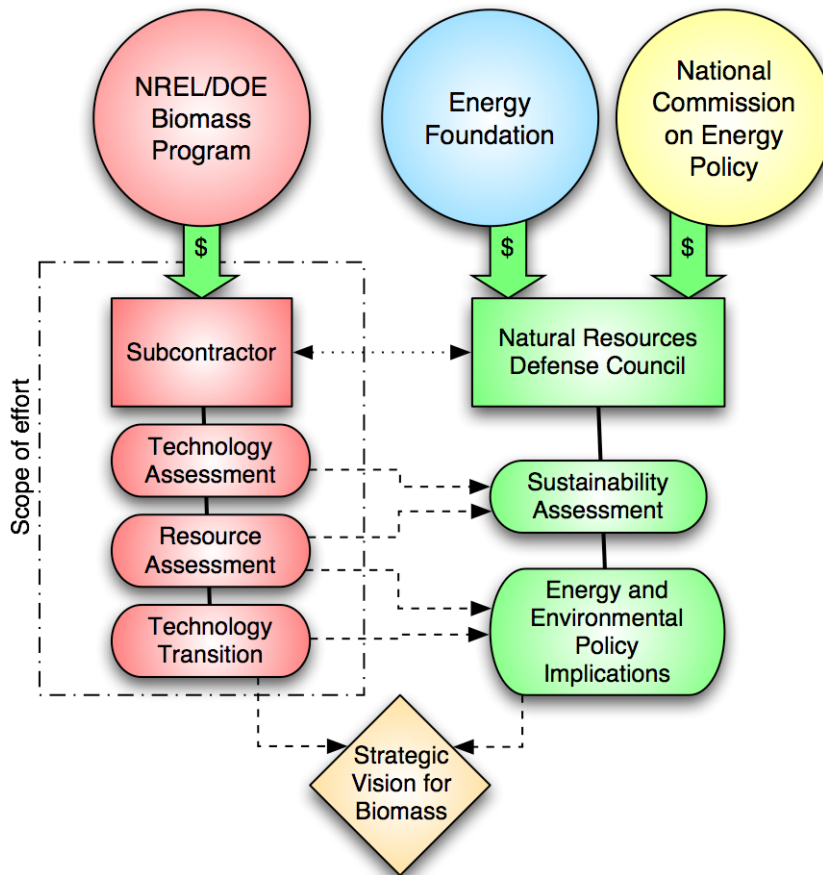
- Mission of the Biomass Program
 - “... foster research and development on advanced technologies that will transform our abundant biomass resources into clean, affordable, and domestically-produced biofuels, biopower, and high-value bioproducts....”



What are we about?



What is our role?

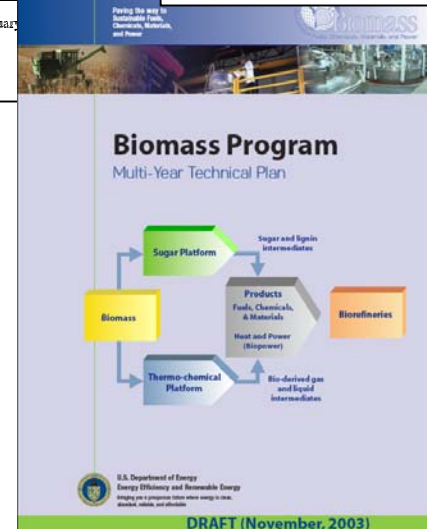
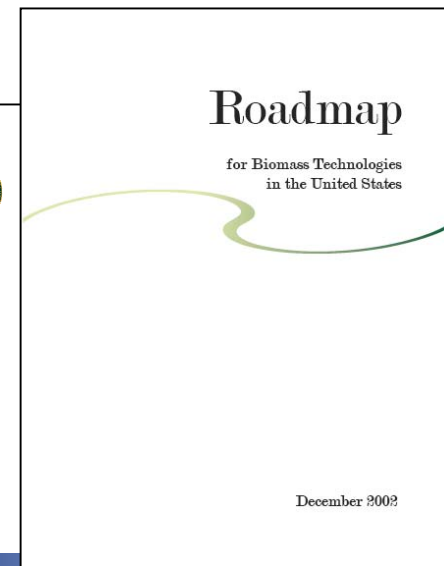
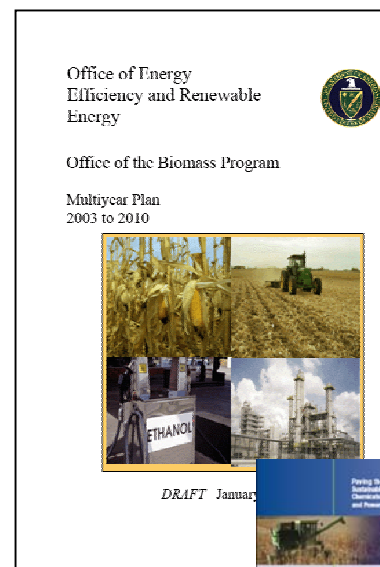


- DOE's Office of the Biomass Program is funding the technical analysis needed to develop a strategic vision for biomass
- DOE's National Bioenergy Center is also carrying out some of the technical analysis



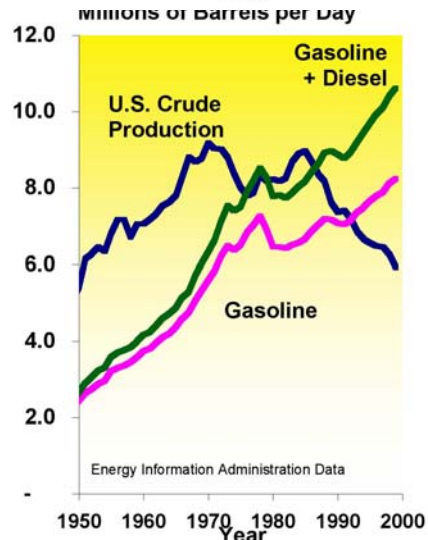
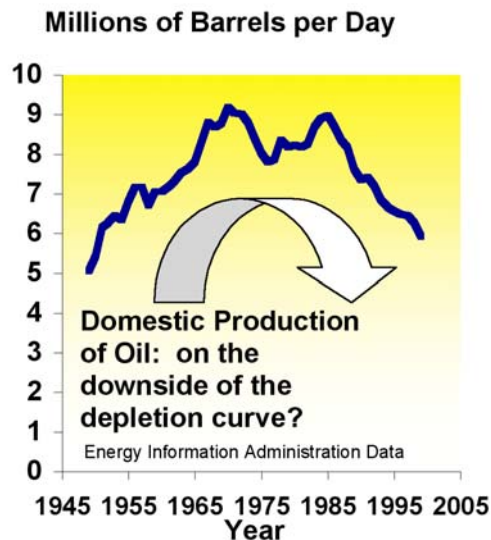
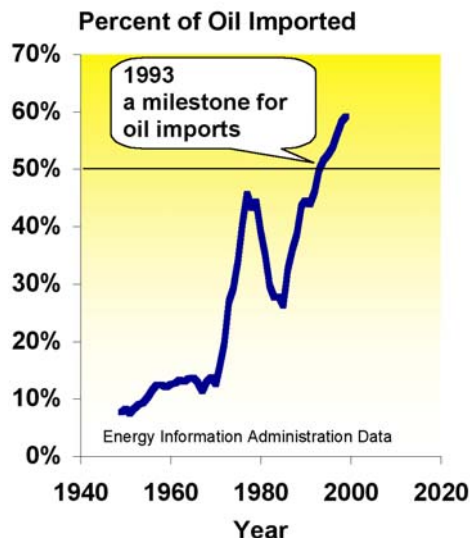
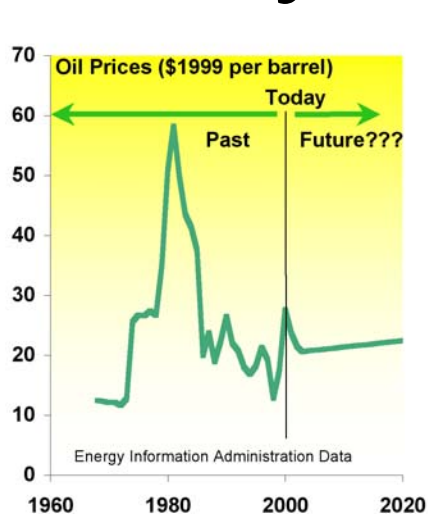
Why this project?

- The need for a long term vision and direction
 - Ongoing uncertainty about what role biomass (or any renewable energy source) can play
 - Focus of DOE plans tend to be near to mid term
- What we lack is a vision of deployed biomass technology--one which this project strives to define





Why this project?



- We face a huge and daunting task
 - “...fossil fuels are a one-time gift that lifted us up from subsistence agriculture and eventually should lead us to a future based on renewable resources.”
 - Kenneth Deffeyes in Hubbert's Peak (2001)



Why this project?



This project takes the seriousness of our energy problem to heart by

- Acknowledging the need for change at the societal as well as the technical level
- Daring to question the near-sighted paradigms that prevent real advancement
- Assembling the kind of multi-disciplinary team that is needed to analyze our options for biomass