Notes from Economic Modeling Discussion 1

- Need to start with common set of assumptions
 - Photosynthetic efficiency
- The customer is always right
- Who is the customer?
 - DOE
 - Algal biofuel stakeholders
 - U.S. taxpayers
- Input parameters
 - There's always one more
 - Number of options complicates modeling
 - Little data; many assumptions
 - Battery limits

Presented at the National Algal Biofuels Technology Roadmap Workshop Conference, 9-11 December 2008, University of Maryland

NREL/PR-510-45623

NREL is a national laboratory of the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, operated by the Alliance for Sustainable Energy, LLC.

Notes from Economic Modeling Discussion 2

- Collecting data
 - Inclusive
 - Transparent
 - Protective of IP
- Precedents
 - Cellulosic Ethanol
 - Hydrogen
- Timing
 - Influence energy policy
 - Complete at publication of roadmap
 - Ongoing process
 - Fast, cheap, accurate

Notes from Economic Modeling Discussion 3

- What is the modeling to be used for?
 - Determine current state of technology
 - Identify critical path elements that offer best opportunities for cost reduction
 - Identify research areas most in need of support
 - Measure progress towards goals
 - Provide sanity check for independent modeling efforts
 - Identify external factors that will impact cost
 - Provide plan for entry of algal biofuels into renewable fuel portfolio