



EITC-Renewable Energy Workshop 2009 (August 3, 2009)

Green Energy

1. Energy Production

- Technology, Efficiency, and Safety Improvement of Current Generation Technologies
 - Nuclear Generation
 - Coal Gasification (Clean Coal Technology)
 - Combine Cycle
 - Combined Heat and Power (CHP)
- Renewable and Alternative Energy
 - Wind Generation
 - Solar Power (Thermal and Electricity)
 - Hydrogen Production
 - Tidal Wave
 - Geo Thermal
 - Marine Current
 - Bio Ethanol (Corn, Soy Bean, Sugar Cane, and Cellulosic)
 - Syngas Production
 - Bio Mass
 - Fischer Tropsch Fuels
 - Algal Bio Fuel
 - Bio Diesel
 - Energy Harvesting and Batteryless Operation

2. Energy Delivery

- Transmission System
 - Superconductor Cables
 - Carbon Nanotube Power Cables
- Smart Grid
 - Seamless Interconnection of Low Environmental Impact New Generation Technologies
 - Architecture & Communication Standards
 - Advanced Components & Operating Concepts
 - Advanced Monitoring & Demand Management
 - Advanced Modeling & Simulation Tools
- MicroGrid
 - Architecture & Communication Standards of MicroGrid
 - Advanced Components & Operating Concepts
 - Advanced Monitoring & Demand Management
 - Autonomous and Non-Autonomous Operation of MicroGrid

3. Energy Consumption

- Efficient Usage of Energy
 - Demand Response
 - Smart House and Smart Appliances
- Green Technology in IT Industry
 - Green Technology
 - Green Computing
 - Green Services