



List of Candidate Topics EITC Green Technology and Service 2009

Proposed By

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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

Green Environment

1. Green Building
- Water Reuse
 - Green Material
 - Energy Saving
2. Solar Market and Trend
- Renewable Energy
 - Solar Market
 - Alternative Green Energy

3. Waste Management

- Waste Reduction
- Recycling
- Green Design
- Zero Waste

Green Business/Services

1. Corporate Social Responsibility
2. Sustainable manufacture
3. Green Supply Chain
4. Green Workforce & Operations
5. Carbon Management Framework and Strategy
6. Carbon Disclosure Project (CDP)
7. Carbon trading
8. Environmental compliance assessment and report