

Renewable and Alternative Energy Subcommittee

Overview for Climate Change Task Force

February 19, 2009

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Renewable and Alternative Energy Subcommittee
President, Advanced Green Technologies

Overview

- Meeting overview
- Technologies
 - Biomass
 - Solar
 - Wind
 - Geothermal
- Policy
 - Renewable Portfolio Standard (RPS)
- Grant Opportunities
- Next Steps

Overview

- Meeting overview
 - Great attendance
 - Diverse group of community leaders
 - Vice – Chair Stepenovitch
 - Next meeting March 3rd at 3pm 2nd Floor

Overview

- Technologies – Focus on energy not fuels
 - Biomass
 - Opportunities for Broward County
 - Solar
 - Broward resource for solar
 - Shovel ready
 - Wind
 - Wind resource studies
 - Geothermal
 - HVAC Systems
 - Ocean Energy
 - FAU



WASTE-TO-ENERGY PLANTS

**North Broward
South Broward**

- **1.6 million tons per year**
- **Electricity sold to FPL**
- **Energy to power 75,000 homes**



Waste to Energy (biomass conversion)

- 50%-150% less carbon dioxide emissions than other fossil fuel plants
- 50% - 200% lower GHG emissions than landfill (with gas recovery)
- Broward County - Municipal Solid Waste(2007 State Report)
 - 1,100,000 tons Waste to Energy (with ferrous recovery)
 - 270,000 tons Landfill (with gas recovery)
- Greater use of Waste to Energy reduces GHG
- Current inclusion in State's 75% waste reduction goal
- Possible inclusion in federal renewable energy portfolio

Waste and Recycling

- Recycle as much as we can
- Convert remaining waste (biomass) to energy
- Explore other bio-fuels and other emerging technology
- Landfill as a last option

Overview

- Policy
 - Renewable Portfolio Standard (RPS)
 - 20% by 2020
 - Debate in State House and Senate

Overview

- Grant Opportunities
 - Will Broward be stimulated?
 - >1000 page ARRA summaries will be reviewed and discussed
- Next Steps
 - Inventory of solar studies and roof space
 - Study by Navigant Consulting
 - Wind studies on coastal buildings
 - Recommendation at next BCCCTF for shovel ready projects submitted for grants
 - Research the Research

Overview

Questions?

Next meeting

March 3rd at 3pm 2nd Floor