



**South Carolina Department of Health and Environmental Control**

*Promoting and Protecting the Health of the Public and the Environment*

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# **Collaborative Efforts for the Regulation of Biomass Energy in South Carolina**

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EPA Biomass Workshop

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# Why Biomass Energy is Important in South Carolina

- Largest existing renewable energy resource in the State.
- Potential for growth.



# 2012 South Carolina Resources Study (Black & Veatch Report)

- Woody biomass identified as most viable near-term RE option
- Identified 510 MW of existing wood fired generation.
- Identified additional 317 MW potential for wood fired generation.



## 2012 South Carolina Resources Study

- 57.3 MW of existing landfill gas generation (Mature, successful waste-to-energy technology)
- Potential for energy generation from agricultural resources, animal waste, wastewater treatment solids and spent pulping liquors – 147MW



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# Existing Biomass Facilities in South Carolina

- 4 Energy Production Facilities
- 24 Industrial Facilities
- 20 Landfill Energy Projects



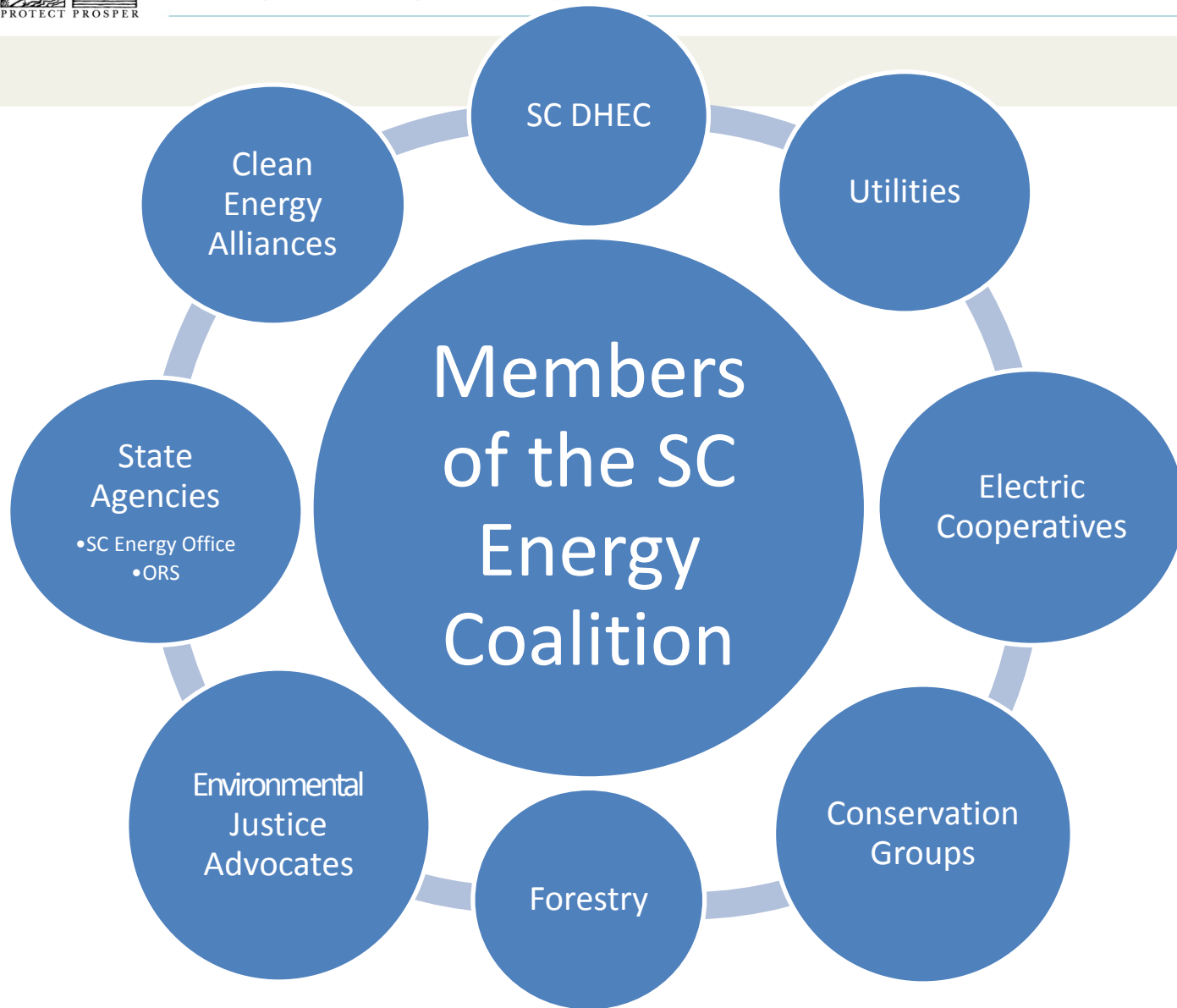
## Collaborative Efforts

- South Carolina Energy Advisory Council
- South Carolina Energy Coalition
- South Carolina Biomass Council
- EJ Hubs
- State Energy Plan



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## **Biomass Energy Concerns**

- Carbon Emission Accounting
- Sustainability
- Community Impacts (transportation ...)





## South Carolina Biomass Council

- Understanding of existing sustainability programs
- Reasonable approaches to track biomass fuel sourcing – not too onerous on landowners & harvesters
- Achieve objective of a tracking system to ensure sustainable sourcing



## EJ Hubs

- Outgrowth of SC Energy Coalition
- EJ Leaders from 4 regions of the state
- Looking to develop clean energy demonstration projects
- Biomass Community Project – partner with facility with existing biomass cogeneration facility that has excess capacity



## State Energy Plan

- Required by South Carolina Energy Efficiency Act
- Developed by State Energy Office
- State Energy Office moved to SC Office of Regulatory Staff
- Efforts of the SC Energy Coalition now focused on State Energy Plan



## State Energy Plan

- Encourage the development and use of clean energy resources, including nuclear energy, energy conservation and efficiency, and indigenous, renewable energy resources;
- Ensure that any future energy strategy that promotes carbon-free, non-greenhouse gas emitting sources includes nuclear energy, renewable resources, and energy conservation and efficiency



## **Biomass in the State Energy Plan**

- Energy Use and Resources Baseline – Current role of renewables including biomass.
- Energy Use and Resources 5 & 10 year Outlook – Role of renewables including biomass in the future.
- Take into account State & Federal Statutes and Regulations.



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# Questions?

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