# Responsible? Must We Choose? Reliable, Affordable, or

"Comments on Energy and Energy Policies" State Regulation of Public Utilities Review

Committee

December 11, 2008



Through Pricing Signals:

Federal Climate Change Legislation

Cap and Trade/ Carbon Tax

Renewable Portfolio Standard

- Climate Change
- Raise price of electricity generated from fossil fuels (CO<sub>2</sub> emitting) Intended Result:
- -Less use or
- Change in generation mix

How large will the price signal be?

- Presume tariff with pure auction\*:
- Cooperatives and Santee Cooper (2010)
- 10 million tons of Coal (creating 36 million tons of CO<sub>2</sub>)

-At \$12 per ton = \$432 million

-At \$150 per ton = \$5.4 billion

<sup>\*</sup>No allocation/no safe harbor for current use levels

- WHERE WILL THE DOLLARS GO?
- Auction Proceeds Become Federal Investment In
- Conservation/ Energy Efficiency
- Renewables
- Research
- Post-Auction Proceeds Become
- Profit to Speculator

- Renewable Portfolio Standard
- Incentivizing development of that don't meet standards renewables by penalizing generators
- Availability of native renewables?
- If not native, purchase of REC's?

- WHERE WILL THE DOLLARS GO?
- Dollars to Invest in Native Renewables—Stay in S.C.
- Dollars to Purchase Non-Native REC's?— Transfer of Wealth

- Affected by Poverty
- 12.5% of S.C. families live below the poverty
- 25% higher than the national average
- \$27,580—S.C. average personal disposable income
- Approximately 20% lower than national average

- Affected by Climate
- -Winter
- (80% of cooperative homes have electricity Electricity is primary form of heating as primary form of heating)

#### Summer

S.C. ranks 7th in cooling degree days per year

- Impacted by Housing Stock 18.8% of houses in S.C. are manufactured homes
- Electric cooperatives in S.C.—22% (Three times higher than the national average)
- S.C. has the highest percentage of owner occupied housing in the nation-72.2%

Impacted by Functional Illiteracy

 S.C. has 5<sup>th</sup> highest percentage of level 1 & level 2 illiteracy—56%

- Dependency on Coal
- 80% of the average S.C. Cooperative home's electricity derived from coal
- Our consumers rely upon an average of ½ ton of (producing approximately 1.8 tons of CO<sub>2</sub>) coal per month to generate their electricity
- A tariff of \$12 per ton of CO<sub>2</sub> would represent an annual increase of \$250 in their electric bill
- A tariff of \$150 per ton of CO<sub>2</sub> would represent an annual increase of \$3,200 in their electric bill (would remove \$1.9 billion of wealth from cooperative

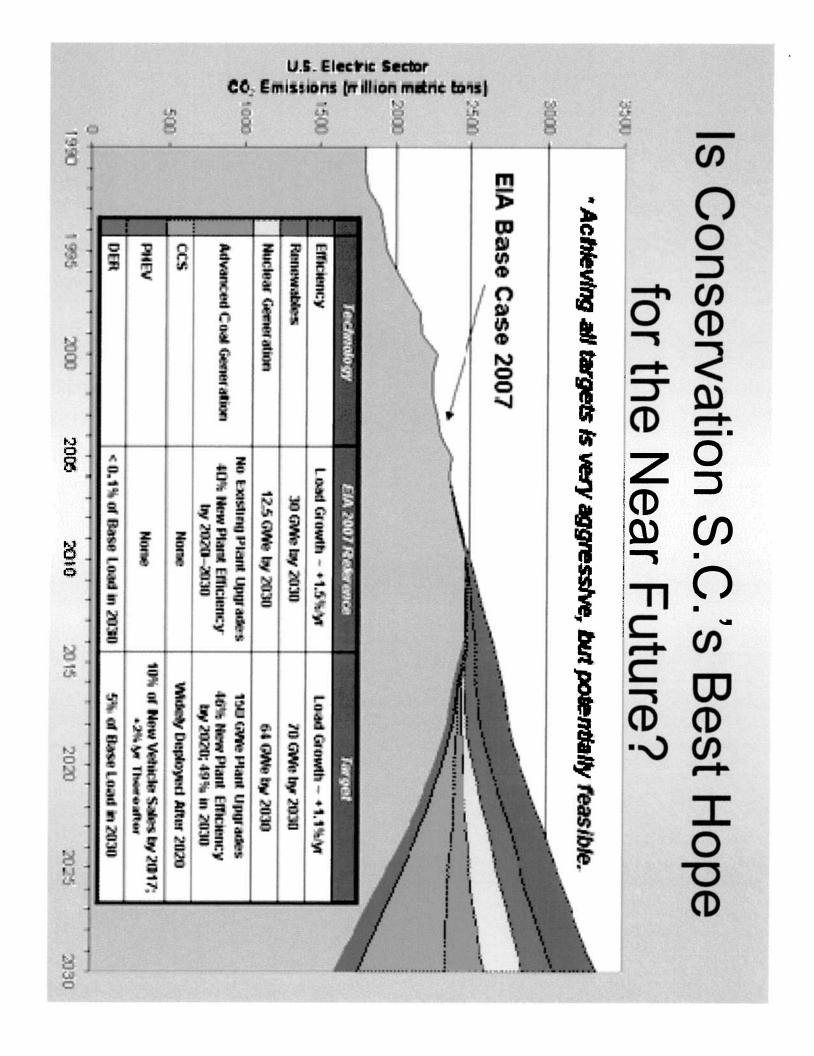
- Relative Youth of Coal Fleet –27 years—Average remaining life of a coal plant in S.C.
- 38.7 years—Average remaining life of Santee Cooper's 11 coal plants

- Dearth of Affordable and Reliable Renewables (Currently Available)
- Landfill methane gas
- HydroBiomass

Will these even count under Federal RPS?

# State of S.C.'s Energy Policy (By Default) How Will Our Members React?

- Lack of Comprehensive Policy
- Late Start
- Danger of Incrementalism
- Need for Accountability
- Reliable
- Affordable
- Responsible



# Is Conservation S.C.'s Best Hope for the Near Future?

Energy efficiency should not be the 5th fuel, it should be the 1st fuel

But like any fuel, it should be tested as to affordability, reliability, and environmental responsibility.

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# Owning The Challenge

- Legislative
- Need for Effective Oversight
- Support Research for S.C. Based Solutions
- Judicial/PSC
- Support of conservation and renewables through cost recovery by regulated utilities
- Regulatory/Executive
- Federal Action Will Create the Impetus for Movement
- No Need for Cheerleaders
- Need for Expertise as to Reliability, Affordability, and Responsibility

renewable energy generation and the growth of job opportunities in that sector. A single, joint committee of the General Assembly (PURC) should be charged with oversight of these efforts. Energy policy, in whole, should be viewed less as agency (ORS) to administer energy efficiency and conservation programs which might be funded through federal dollars a transition to a carbon constrained economy with minimal way of continuous implementation of a policy which effectuates a disconnected series of regulated transactions but more in the curb energy use, including: more effective building standards, loan guarantee programs enabling the elderly and low income advising the General Assembly as to cost effective programs to directed to the state of S.C. ORS should be also charged with and consolidate authority for effectuation of energy The state of South Carolina should overhaul its energy policies negative impact upon the population of the state households to invest in weatherization and energy efficient policy. Clear authority should be given to a single regulatory HVAC and appliances, and additional incentives to encourage

