

Illinois Climate Change Advisory Group Power/Energy Sub-Group:

ICF International/Systematic Solutions Inc. Questions re Proposed Policies:

Policy #8: Energy Efficiency Standards for Appliances and Equipment

1. Assumed implementation date for policy?

Policy #9: Carbon Capture and Storage Portfolio

1. Are costs for CCS plants available?
2. Assume all CCS generation is sold in Illinois (reflects in power prices in Illinois)?
3. CCS Plants: (policy mentions 3 projects
 - a. Christian County/Taylorville Energy Center (2 x 278MW Net)
 - b. Steelhead Energy/S. Illinois Clean Energy Center (2 x 272 MW Net)
 - c. ?
4. How is carbon to be sequestered/used? EOR?
5. Non-compliance costs?

Policy #13 & 43: Residential and Commercial Construction Codes

- ♦ Assumes 15% improvement for Residential; 25% for Commercial.
 - ♦ Increase in capital costs 1-3%
1. Projected growth in commercial floor space by type (floor space growth typically less than growth in gross output/economic growth)?
 2. What is current practice (as compared to Code – ie. some % of buildings already above code. Do we have any information on % of homes/buildings now built to higher standard?).
 3. Implementation date?

Policy #42: Energy management programs for existing state facilities

1. Need to review data re floor area of state facilities and ideally a breakdown of type of facilities in comparison with total floor area in these same sub-sectors.
2. Start date?

Policy (No number): Enhanced Renewable Portfolio Standard

- ♦ Governor's Plan – calls for 3% of retail sales from renewables in 2008, 10% by 2015.
 - ♦ Policy proposes 1.5% in addition to Governor's plan to 17.5% by 2002 and 25% by 2025.
2. Confirm: a) Based on sales/generation, not capacity. b) bulk of renewable generation to be wind (~95%), with about 3% LFG, 2% Biomass?
 3. Any constraints (ie. upper limit on wind as % of total generation).
 4. Assume proportions described in Shaw report re emissions in/outside of Illinois?

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Policy (No Number): Enhanced Energy Efficiency Programs

- ♦ Governor's Plan proposes incremental energy savings of 1% with a cap on spending of 2% of utility revenues.
 - ♦ Based on cost-effective "best practices" per ACEEE.
 - ♦ Would achieve 0.7% annual electricity savings before reaching the cap and the full 1% annual natural gas savings while staying under cap.
 - ♦ Enhanced plan proposes 3 options.
1. Confirm targets are in terms of energy rather than demand.
 2. Which Enhanced Plan is to be modelled?
 3. Start date?
 4. Use ACEEE table in footnote of policy to model energy savings/\$ invested in DSM.
 5. Existing/pre-Governor's Plan targets for DSM?
 6. Confirm Governor's and Enhanced plans are in addition to current/existing DSM activities.

Policy #7: Small Renewable Distributed Generation

1. Are these changes in addition to those in the Enhanced Renewable Portfolio standard and Boiler/CHP policies (policies are not numbered).
2. Should we model using assumption that electricity sales in state will be reduced by 1% (generation on customer side of meter reducing power sales by utility)? Or is intent to model impact of regulations/incentives? (latter will be difficult).
3. Effective dates to be used for modeling?
4. Which option should be modeled.
5. Should modeling include RTP? If so, to all customers? Start date? Is information available on price variations under pilot program, metering offered? In home displays? Tools or systems offered to enable customer control?

Policy #5: CO2 emission performance standards for electricity generation or an emissions portfolio standard

1. Confirm that power purchase restriction would only affect purchases from new plants, not to increased purchases by LSE's.
2. LSE purchase restriction begins in 2009, limit on plant type construction starts in 2015?
3. Is 2015 date intended to refer to date of in-service or start of construction?
4. Confirm that LSE's would be unaffected if they only purchase power from existing plants built prior to 2009?

Policy #33: Lighting Standard

1. Anticipated costs for low mercury CFL's?

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2. Do standards affect existing fluorescent lighting (need to check lumen/watt figures) or only result in a shift from incandescent to CFL lights (and LED for seasonal lights)?
3. Are there existing standards for fluorescent lighting (ie. requiring efficiency of T8's and electronic ballasts in commercial/industrial lighting)?

Note – both Canadian and Ontario governments have announced plans to phase out incandescent lights by 2012. CFL's increasingly becoming the norm. LED's widely used for Christmas/seasonal lights.