

November 14 - 16, 2008

New Orleans, Louisiana

Session IV:

Climate Change Policy
Challenges Confronting
US Electricity Markets

November 15, 2008

7th us-eu energy regulators roundtable



Presentation By

Shelton Cannon

Director, Office of Energy Market Regulation

Federal Energy Regulatory Commission

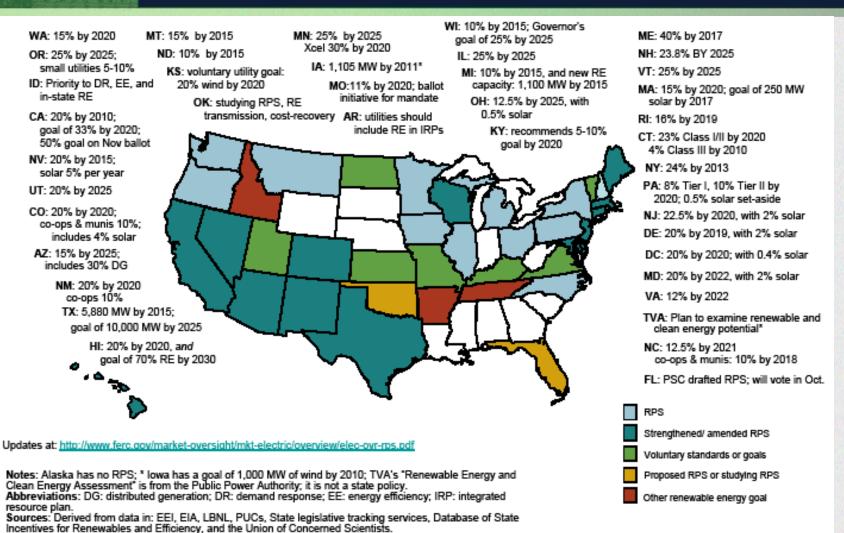


Reconciling Policy Objectives

- Climate Change as Driver
- Environmental Policy Goal
 - Reduction in Carbon Emissions
- Energy Policy Goal
 - Abundant Energy Supply/Reasonable Cost
- Market vs. Regulated Solutions



Renewable Energy Portfolio Standards (RPS)





Collaborative Greenhouse Gas (GHG) Programs

Collaborative Regional GHG Programs:

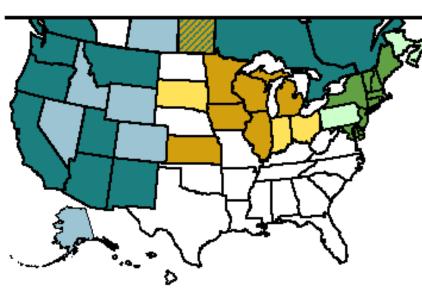
- Groups with goals to lower regional GHG emissions were initiated by Governors at three area Governor Association meetings.
- Each has Participating (or Partner) U.S. states and Canadian provinces.
- Observer jurisdictions do not commit to group GHG reduction goals, but participate in proceedings should they opt to join later.

Western Climate Initiative (WCI):

- Created February 2007
- Partners: 7 states, 4 provinces;
 Observers: 5 states, 1 province^x
- WCI announced its design for a market-based, multi-sector capand-trade program, Sept 2008;
 - 15% CO₂ reduction below 2005 levels by 2020
 - Phase I to take effect Jan 2012

Midwest Greenhouse Gas Accord:

- Established November 2007
- Participants: 6 states, 1 province;
 3 Observer states, 1 province
- Preliminary GHG policy recommendation:
 15 25% reductions by 2020



Updates at: http://www.ferc.gov/market-oversight/mkt-electric/overview/elec-ovr-ghg.pdf

Notes: Kansas is a MGGRA participant and WCI observer. Ontario is a Partner to WCI and MGGRA Observer. Sources: Regional initiatives: www.rogi.org, www.westemclimateinitiative.org, trade press, percentage, www.westemclimateinitiative.org, trade press, www.westemclimateinitiative.org, trade press, www.westemclimateinitiative.org, trade press, www.westemclimateinitiative.org, www.westemclimateinitiative.org, trade press, www.westemclimateinitiative.org, www.westemclimateini

Regional Greenhouse Gas Initiative (RGGI):

- Takes effect Jan 2009; est. Dec 2005
- 10 Participant states;
 Observers: 1 state, D.C., 3 provinces.
- Market-based effort to cap and reduce power-sector CO₂ emissions.
- 10% CO₂ reduction by 2018 covers over 200 plants
- 188 million allowances to be auctioned through 6 auctions

Auctions:

- 9/25/08: 12.5 mil. tons of allowances cleared at \$3.07/allowance, raising \$38.5 million.
- 6 states each auctioned 1/8 of their allowances: CT, MA, ME, MD, RI, VT
- these 6 will offer 16.6% at next 5 auctions
- 12/17/08: first 6 states plus NY, NJ, NH, DE: new states auction 20% in 5 auctions. 31.5 allowances in auction
- 3 to 6: All ten states on same percent basis as prior auctions. 2009 dates: 3/18, 6/17, 9/16, 12/16

Participant in WCI
Observer to WCI
Participant in MGGRA
Observer to MGGRA
Participant in RGGI
Observer to RGGI
Participant in MGGRA & WCI



Key Challenges

- Regulatory Turf
- Operational/Reliability
- Building Needed Transmission
 - Interconnection Queue
 - Regional Planning
- Transmission Pricing
- Incorporating Demand Side



Regulatory "Turf"

- Jurisdictional Lines
- State v Federal
- State v State v State
- Regional Issues =Regional Solutions



Operational Challenges

Availability

Technological



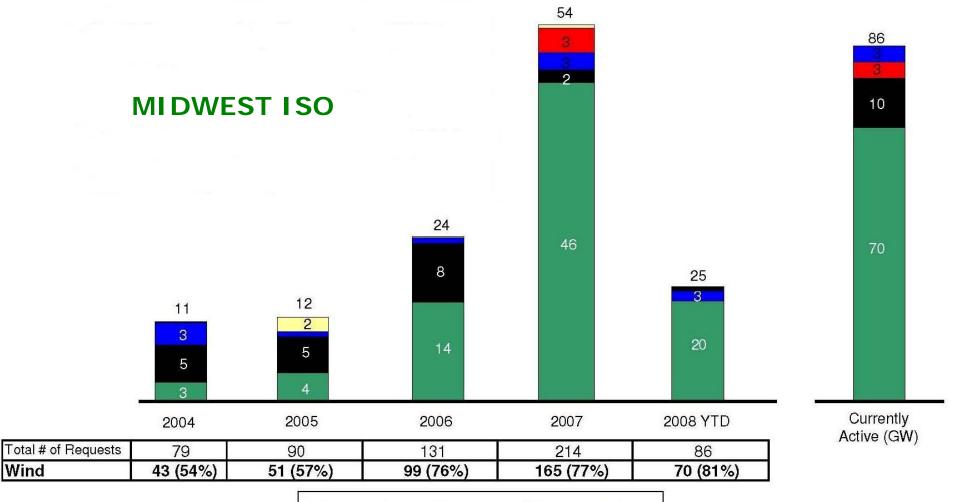


Reliability

Fuel Diversity



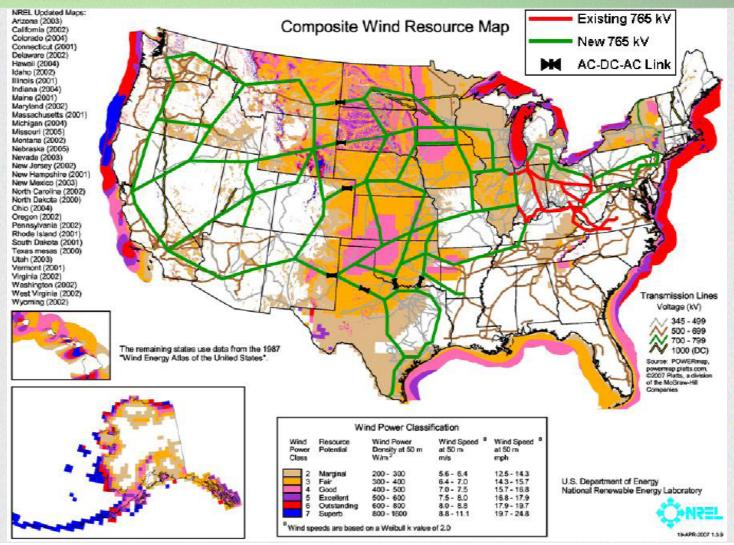
Building Needed Transmission: Queue Reform



■ Wind ■ Coal ■ Natural Gas ■ Nuclear □ Other



Building Needed Transmission: Planning & Siting





Transmission Pricing

- Incentives
 - Order No. 679
- Cost Allocation
 - Determining Beneficiaries
 - Roll-In vs. Incremental
- Merchant Transmission



Incorporating Demand Side

- Other Side of Carbon Equation
- Again Jurisdiction Can Complicate Issues
- Recent Commission Rule on Improving Wholesale Competitive Markets - Order 719
- Congressional Direction Energy Independence and Security Act of 2007



Conclusion

- Need for Regulatory Certainty
- Regional Cooperation
- Calibrating Expectations
- Multi-Tiered Approach
- Opportunity Catalyst for Change