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EASTERN INTERCONNECTION STATES' PLANNING COUNCIL

Transmission Planning and Regional Cooperation – Issues and Action in the U.S.

Eric Callisto

Commissioner

Public Service Commission of Wisconsin

9th EU-US Energy Regulators Roundtable

October 3-4, 2011, Chicago, Illinois



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Drivers for New Transmission

- *Reliability – past/present/future*
- *Economics – present/future*
- *Public Policy – future*
 - *RPS, clean energy, climate*



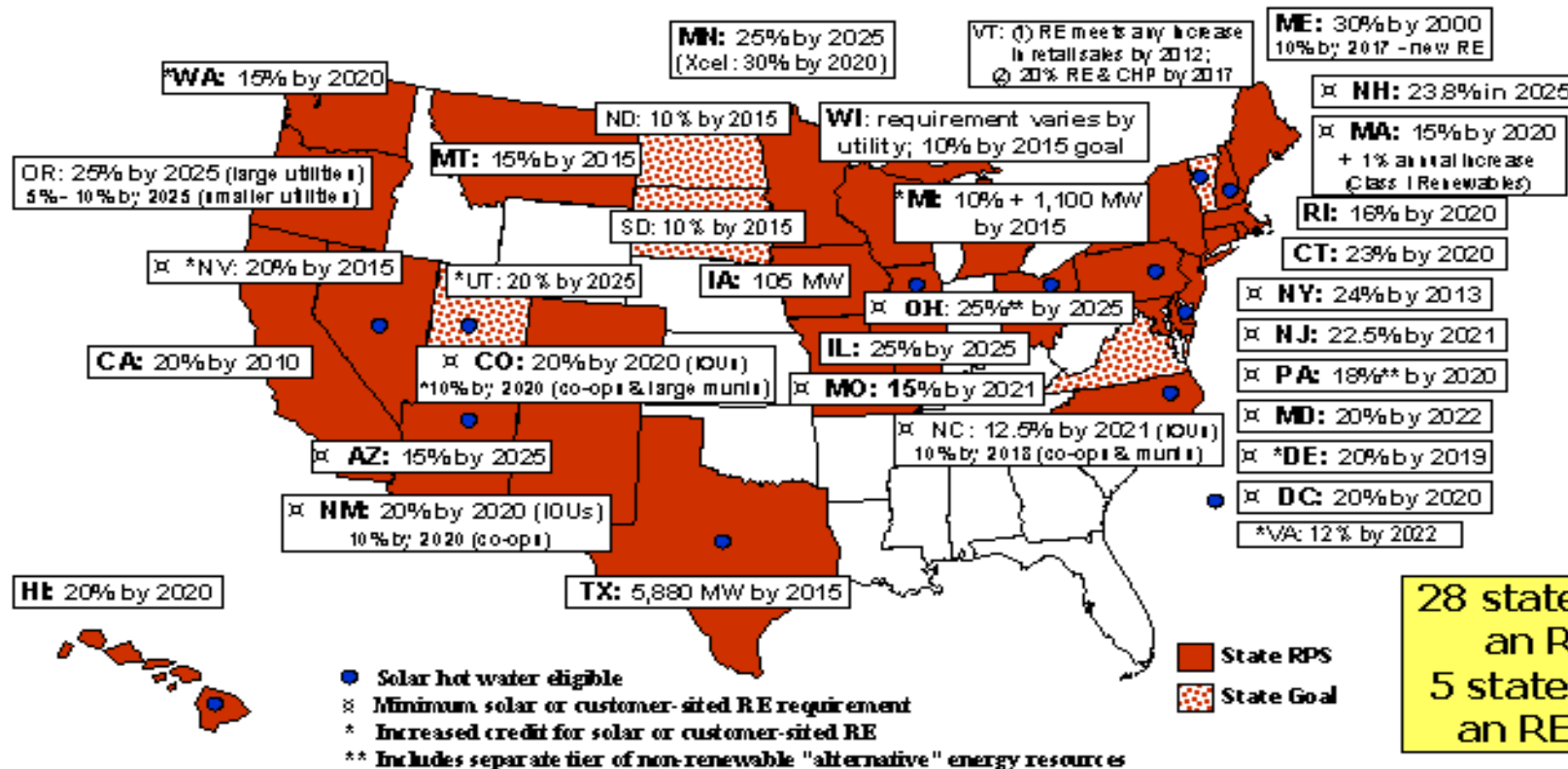
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DSIRE: www.dsireusa.org

January 2009

Renewables Portfolio Standards

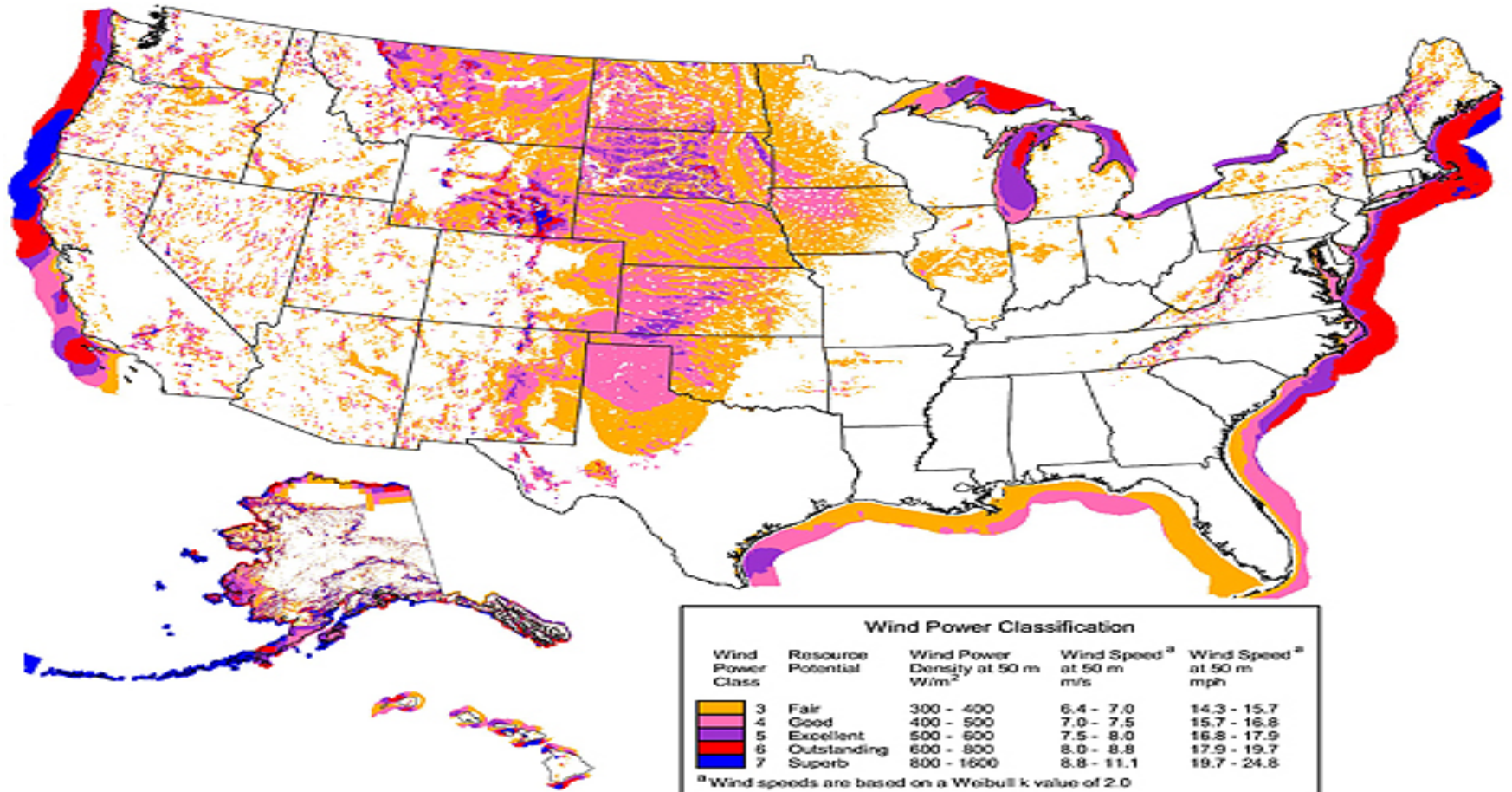




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Wind Resources in the U.S.





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Must this be so difficult? Not necessarily, but . . .

- Regulatory jurisdiction is split
 - Federal Energy Regulatory Commission (FERC) – limited jurisdiction, not general; narrow authority to site transmission lines; regional planning; authority to set rates (some times)
 - States/local – typically, broad authority to approve/reject a line based on need and siting issues; authority to set rates (some times) and to authorize cost recovery
- Historical parochialism
 - No pressing need
 - Turf wars
 - Protectionism
 - Regulatory resource limitations



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2009 Funding Opportunity from the U.S. Department of Energy – A Unique Partnership

“The objective of this Funding Opportunity Announcement is to facilitate the development or strengthening of capabilities in each of the three interconnections in the lower 48 states of the United States, to prepare analyses of transmission requirements under a broad range of alternative futures and develop long-term interconnection-wide transmission expansion plans.”

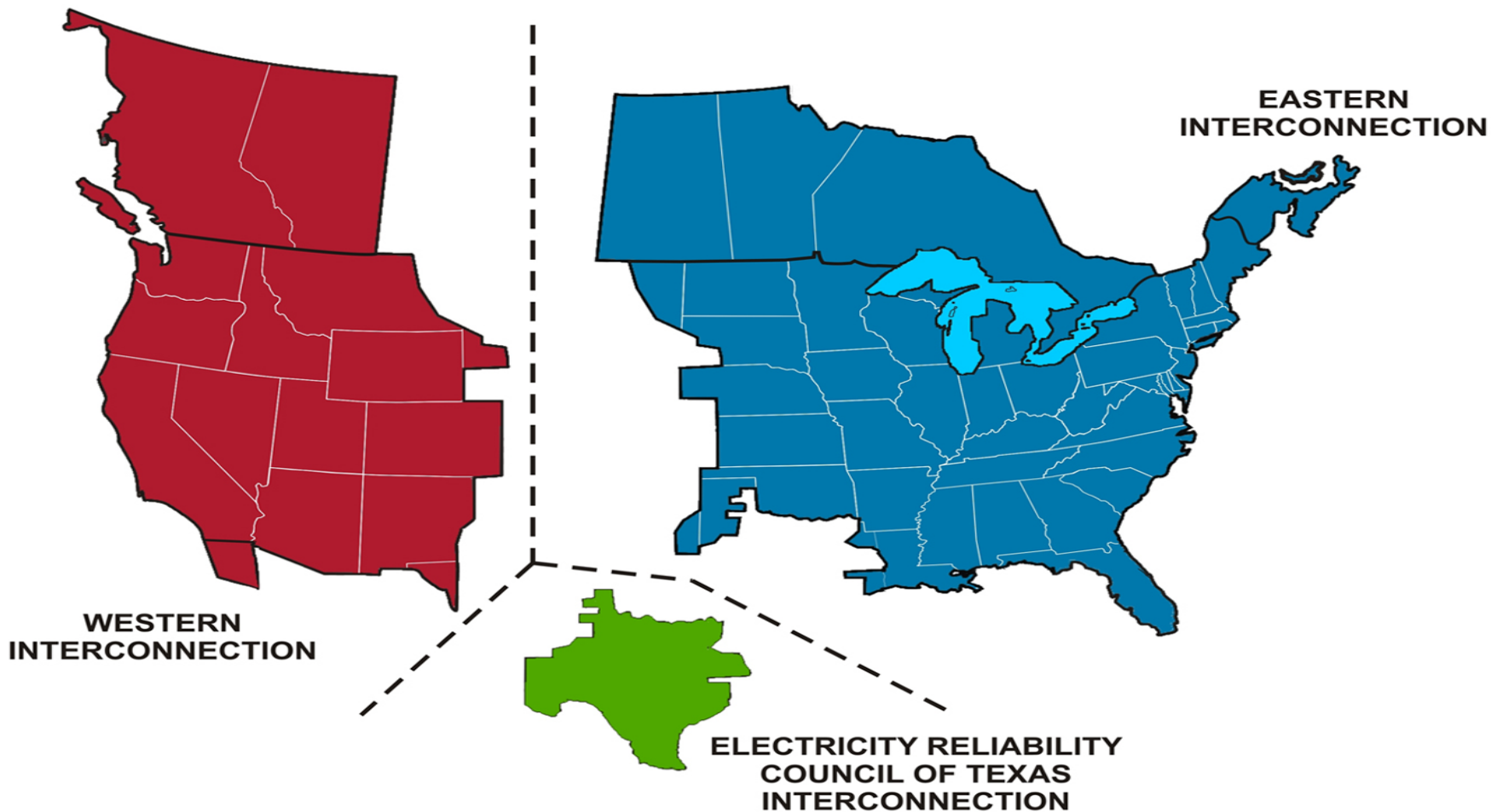
Department of Energy, Funding Announcement



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North American Electric Reliability Corporation Interconnections





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EISPC (aka “Ice Pick”) – What is it?

- ***Eastern Interconnection states, DC, Canada***
- ***2 representatives per state***
- ***Interconnection-wide resource planning***
- ***Interconnection-wide transmission planning***
- ***Studies and whitepapers***
- ***Works closely with Eastern Interconnection Planning Collaborative (EIPC)***
- ***1/3 of Stakeholder Steering Committee***



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TWO TEAMS IN PLANNING EFFORT

Engineering Team (EIPC)

- Planning Authorities =
 - Regional Transmission Organizations (RTO)
 - Transmission Owners
- Run models and prepare the transmission plans
- Stakeholder Steering Committee – provides strategic advice

Policymaker Team (EISPC)

- State representatives—
commissioners, governors' reps., SEOs, environmental agencies
- Provide inputs to modelers through Stakeholder Steering Committee
- Conduct studies and whitepapers



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Eight Futures+72 Sensitivities = 80 Transmission Scenario Options

1. Business as Usual
2. Federal Carbon Constraint – Top-Down Implementation
3. Federal Carbon Constraint – State/Regional Implementation
4. Aggressive EE/DR/DG/Smart Grid
5. Federal RPS – National Implementation
6. Federal RPS – State/Regional Implementation
7. Nuclear Resurgence
8. Combined Federal Climate and Energy Policy



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Achievements to Date

- Phase 1 modeling complete, and three Futures have been chosen for final modeling:
 - Nationally implemented federal carbon constraint with enhanced energy efficiency and demand response - the large buildout bookend (40 GW additional transfer capability)
 - Regionally implemented national RPS scenario – the middle buildout (3 GW)
 - Business as usual – the small (none) buildout (0 GW)
- EISPC studies and whitepapers continue
- The “Process” itself:
 - We’re still engaged
 - Consensus
 - Reasonable openness about the final product



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Other Regional Planning Initiatives and Drivers

- Federal
 - FERC Order 1000
 - FERC/DOE initiative on National Interest Electric Transmission Corridors (NIETC)
- Regional
 - Midwest Independent Transmission System Operator (MISO) Multi-Value Projects (MVPs)
 - Upper Midwest Transmission Development Initiative (UMTDI)
- Bilateral
 - Wisconsin/Minnesota cooperation