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EASTERN INTERCONNECTION STATES' PLANNING COUNCIL

Energy Zones – what are they?

Generally, energy zones are areas containing resources conducive to developing certain types of energy generation.



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Why perform an Energy Zone Study?

Such a Study could inform clean energy development considerations by providing information regarding areas with potential clean energy resources



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Why is EISPC performing an Energy Zone Study?

- Required by DOE Funding*
- Assist each Region/State in identifying its own areas with resources conducive to developing Clean or No/Low Carbon generation*
- Provide early identification of potential siting issues*



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DOE's Funding Opportunity Announcement (FOA) Provisions for Topic B/EISPC -- FOA page 10 (Requirement No. 1):

Identify Eastern Energy Zones of particular interest for low- or no-carbon electricity generation (e.g., renewable-rich areas with suitable topographic and other characteristics for either variable or baseload generation, including non-terrestrial areas particularly suited to off-shore wind and ocean power technologies, areas with geology or other characteristics particularly suited to carbon capture and sequestration (CCS), or areas otherwise particularly suited to other forms of low- or no-carbon electricity generation.) The applicant is expected to allow for regional diversity and determine how the identification of Eastern Energy Zones could best serve the collective interests of the affected areas.



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EISPC's Energy Zone Workgroup (EZWG)

- Formed March 2011
- Ten EISPC members—regional balance
- Major Lab involvement
- Weekly calls -- Stakeholders welcome
- Sign up at www.eispc.org



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EISPC Reviewed Prior EZ-Type Studies

ERCOT --CREZ

Western Interconnection—WREZ

Midwest ISO – RGOS

New England Studies



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2000 POPULATION DISTRIBUTION IN THE UNITED STATES





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EISPC'S GOALS AND OBJECTIVES

- Info to Identify Clean Energy Resources***
- Inventory Clean Energy Policies***
- Legal/Policy Restrictions on Energy Zones***
- Info for Resource/Transmission Planning***



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---STUDY DELIVERABLES---

- METHODS/PROCESSES TO IDENTIFY CLEAN ENERGY RESOURCE AREAS***
- INVENTORY OF POTENTIAL CLEAN ENERGY RESOURCES PER STATE IN THE E.I.***
- CIRCUMSTANCES IMPACTING CLEAN ENERGY RESOURCE DEVELOPMENT***
- METHODS/PROCESSES TO IDENTIFY CLEAN ENERGY ZONES***



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---DETAILED TECHNOLOGIES LISTING---

--NUCLEAR ENERGY

***--COAL GENERATION/GASIFICATION WITH CARBON
SEQUESTRATION/STORAGE***

--BIOMASS AND BIOGENIC FUELS

--GEOTHERMAL

--WATER

--ENERGY STORAGE TECHNOLOGIES

--SOLAR (PV AND THERMAL)

--WIND

New notes to WG and Labs:

--the next slide is the list of exclusions—
please review and tell me what is still
missing.

--"Energy (Targetted types)" in the Goals
document includes DG and cites roof-top
solar, whereas the next slide excludes DG
except for roof-top solar, per the WG's last
discussion. Change the Goals document
of the slide?



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--Technologies NOT Included--

--CANADIAN HYDRO FACILITIES *(THE IMPACT ON U.S. RESOURCES FROM CANADIAN HYDRO FACILITIES IS CONSIDERED.)*

--DISTRIBUTED GENERATION *(ROOF-TOP SOLAR IS INCLUDED)*

-- ENERGY EFFICIENCY

--DEMAND RESPONSE

--SMART GRID



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---NEXT STEPS---

- WG AND LABS DEVELOP TASK LIST FOR STUDY***
- LABS INVENTORY RESOURCES AVAILABLE TO FULFILL TASKS***
- IDENTIFY OTHER RESOURCES NEEDED TO FULFILL TASKS THAT LABS CANNOT PROVIDE***
- PROCURE OTHER RESOURCES USING RFP'S***
- PROCEED WITH STUDY***



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Study expected to:

- Be Completed Fall 2012 or Spring 2013
- Provide information on Each State
- Involve many Agencies/Stakeholders
- Inform post-ARRA grant cycle EISPC and EIPC work



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Questions?