Renewable Energy and Transmission: Opportunities and Barriers

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FERC
FERC Transmission Authority (Interstate)

- Cost Allocation & Pricing
- Interconnection
- Reliability
- Planning
- Siting
FERC Transmission Planning

_order 890 Transmission Planning (Order 888 OATT Reform)_

Applies to All Jurisdictional Transmission Providers

- Open, Transparent, Coordinated, Regional
- Supply and Demand Treated on “Comparable Basis”
- DR, EE, CHP, DG & Grid Efficiency Treated Equally
Transmission Siting

- NIETC Authority (2005 EPACT)
- DOE Corridor Designations
- FERC Backstop Siting Authority
- FPC Hydro Authority
- Section 21
- Natural Gas Act Authority
- Section 7(c)
Renewable Transmission Proposals

Major Proposed Transmission Projects (many other smaller proposed smaller projects)

- Sea Breeze Projects
- TransCanada Projects
- Gateway Projects (NTTG)
- TransWest Express
- LS Power & Great Basin Projects
- WY-CO Intertie Project
- Eastern Plains Project
- High Plains Express
- Sun-ZIA
- Mountain States Transmission Intertie
- Canada-Northern California
- West of McNary
- Southern Crossing
- Navajo Transmission Project
- Robinson Summit–Harry Allen
- Sunrise Powerlink
- Lethbridge (AB) – Great Falls
- Palo Verde – Devers
- Green Path
- Tehachapi
Renewable Transmission Proposals
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Potential Renewables in New England

1. Southwest CT Phase I
2. SWCT Phase II
3. NSTAR 345 kV Project
   a. Phase I
   b. Phase II
4. Northwest Vermont
5. Northeast Reliability Interconnect
6. Monadnock Area
7. New England East-West Solution
   a. Greater Rhode Island
   b. Springfield 115 kV Reinforcements
8. Southeast Massachusetts
9. Maine Power Reliability Program
10. Maine Power Connection
11. Northern New Hampshire
12. Off-shore wind

Figure 2

Legend:
- In service
- Under construction
- Under study
Conclusions

- Limited Siting Authority
- Regional Only Planning Authority
- No Authority to Order Construction
- Multiple Proposals for Renewables
- No National Transmission Plan to Coordinate Multiple Proposals