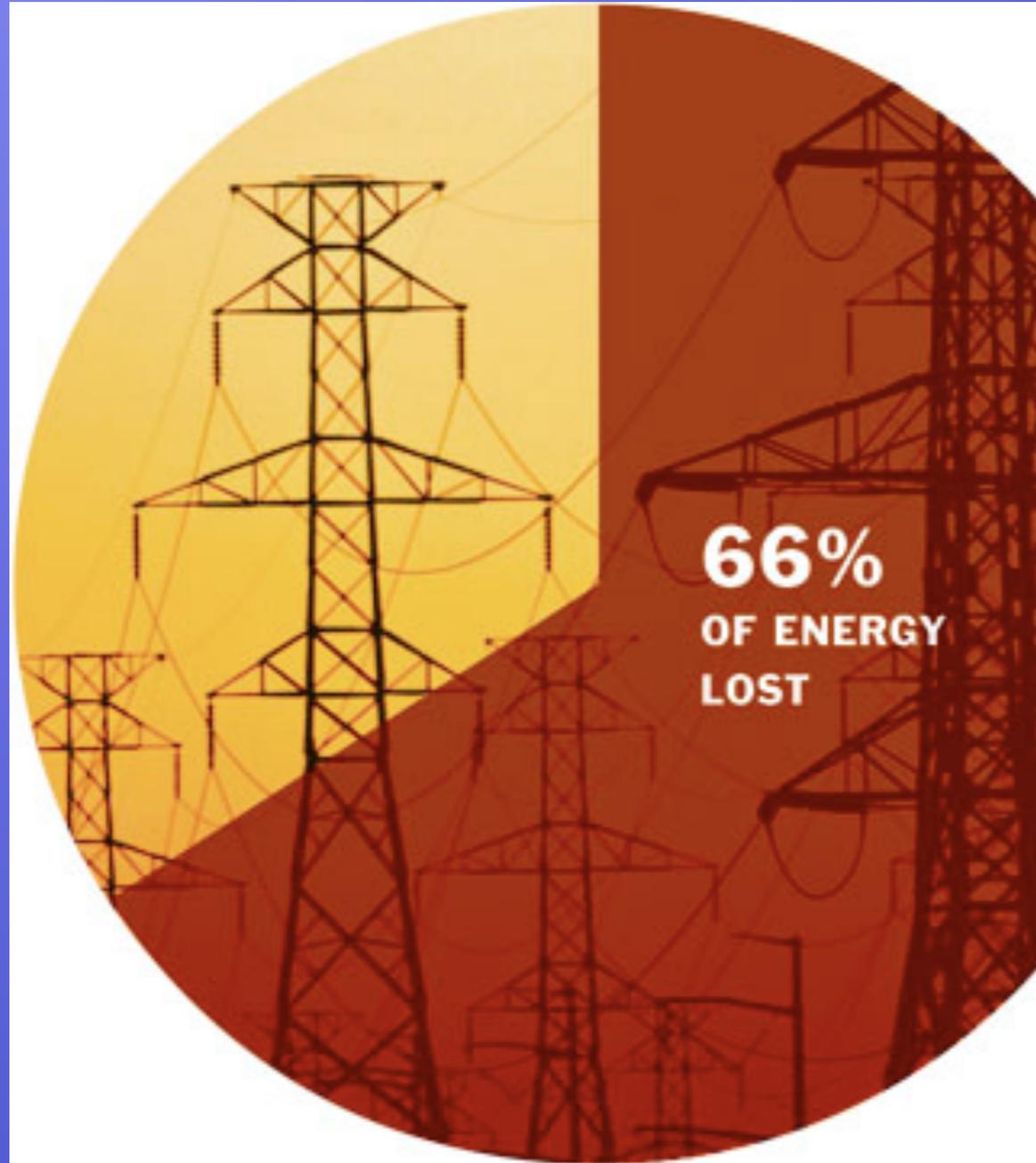


# Renewable Energy and Transmission: Opportunities and Barriers



EESI

June 13, 2008

Jon Wellinghoff  
Commissioner  
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)**

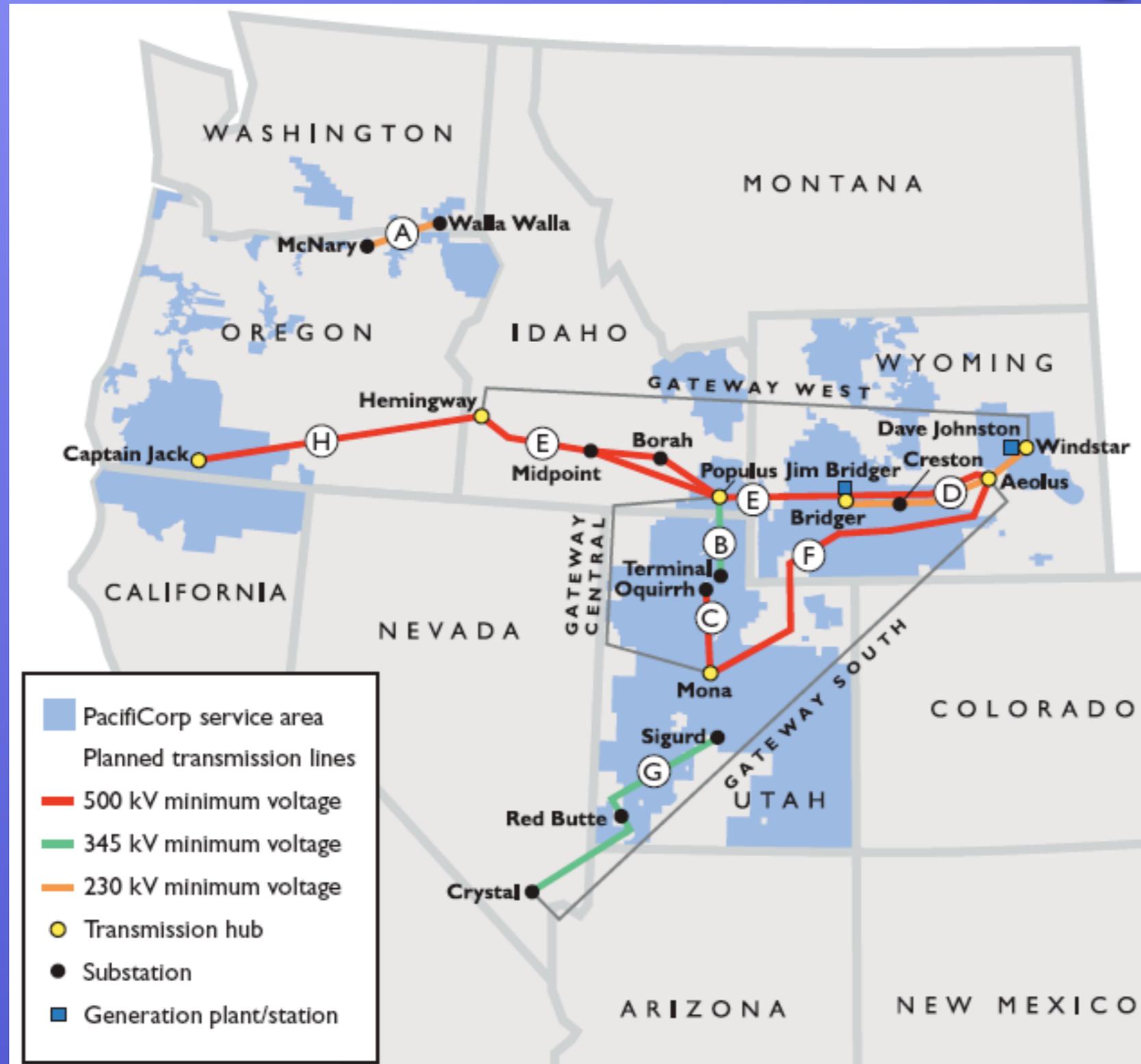
# Renewable Transmission Proposals



## 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

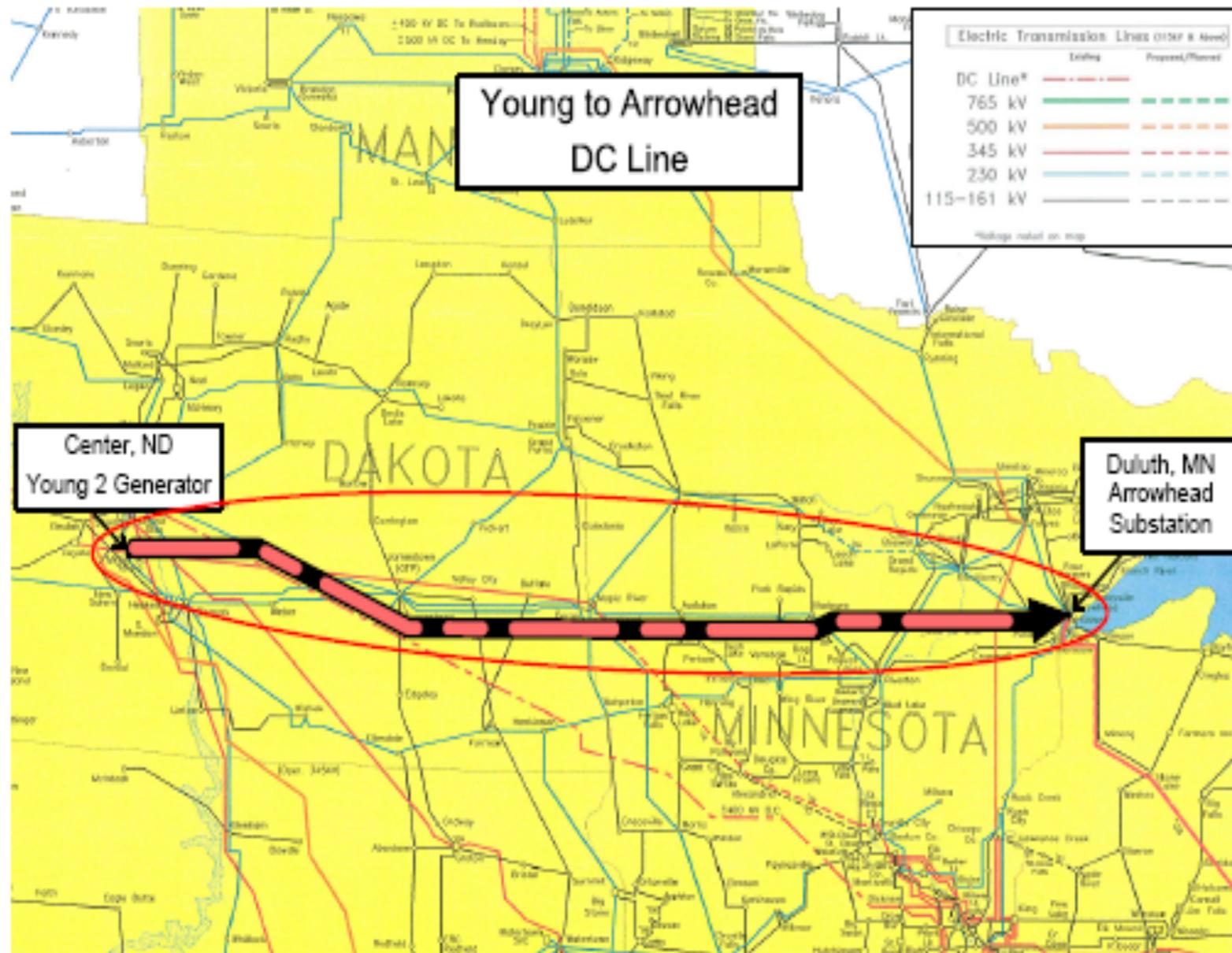
# Renewable Transmission Proposals



# Renewable Transmission Proposals



# Renewable Transmission Proposals



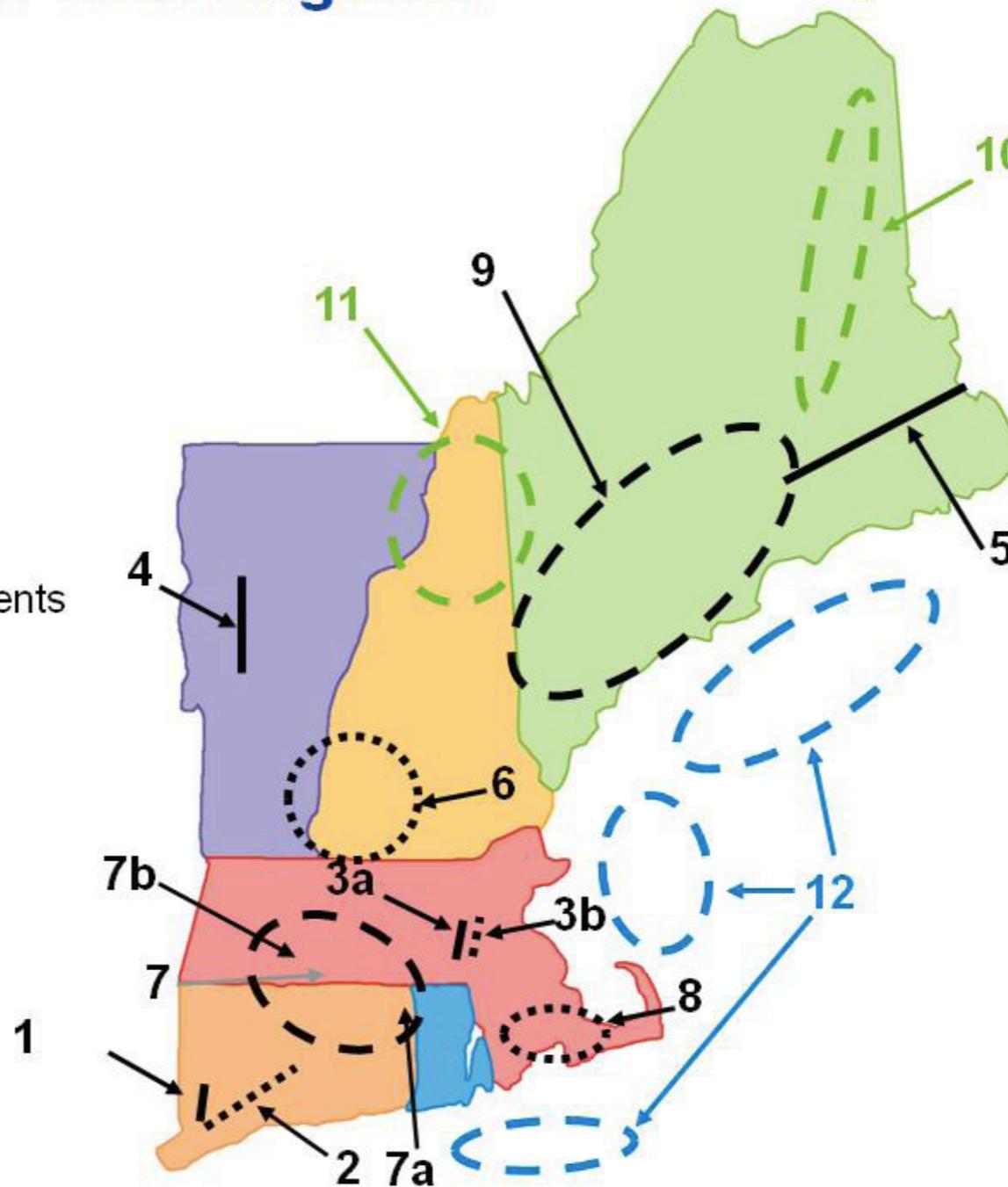
# Renewable Transmission Proposals

## Potential Renewables in New England

Figure 2

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

-  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**