



2012 IRP

Transmission Scope

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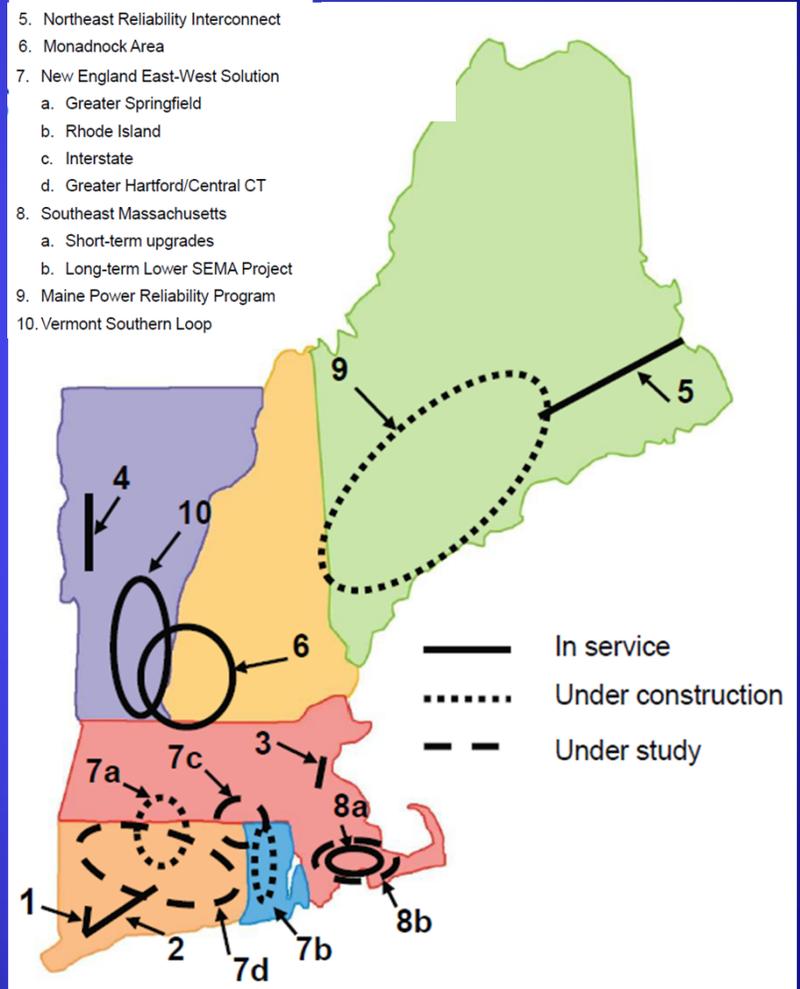


Transmission Base Case Assumptions

- Planned Transmission Projects: Must have I.3.9 approval (*i.e.*, ISO technical approval). Based on October 2011 Project Listing, incl.:
 - Deerfield 345/115 kV Autotransformer (2012)
 - NEEWS (2013-16)
 - Long Term SEMA Upgrades (2013)
 - Central/Western MA Upgrades (2015)
 - Greater Rhode island Transmission Reinforcements (2015)
 - Maine Power Reliability Program (2015)



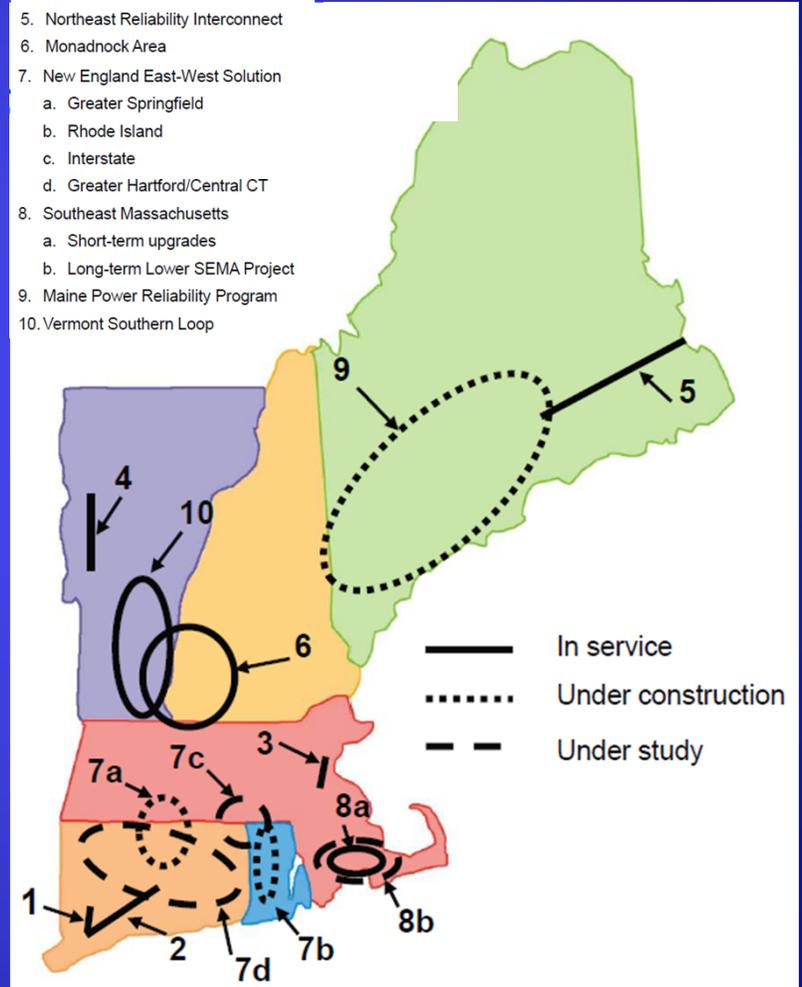
1. Southwest CT Phase I
2. Southwest CT Phase II
3. NSTAR 345 kV Project, Phases I & II
4. Northwest Vermont
5. Northeast Reliability Interconnect
6. Monadnock Area
7. New England East-West Solution
 - a. Greater Springfield
 - b. Rhode Island
 - c. Interstate
 - d. Greater Hartford/Central CT
8. Southeast Massachusetts
 - a. Short-term upgrades
 - b. Long-term Lower SEMA Project
9. Maine Power Reliability Program
10. Vermont Southern Loop



Transmission Base Case Assumptions

- Future Transmission for Base Case Renewables:
 - Refer to ISO-NE planning studies
 - Relieve major constraints as needed
- Other Transmission Scenarios or Strategies to analyze:
 - Northern Pass Transmission Project
 - Potentially other transmission buildouts for alternative renewables strategies.

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Non-Transmission Alternatives (NTAs)

- The IRP will not evaluate specific NTAs, except for transmission that is being considered as part of a resource strategy in the IRP
- The IRP will describe a framework for how NTAs can compete with transmission; will address generally which types of transmission projects are candidates for NTA consideration
 - Projects to address local resource adequacy and/or relieve congestion: yes
 - Projects to address transmission security issues: yes, for some; no for others (e.g., short-circuit problems)



Non-Transmission Alternatives (NTAs)

- The IRP will describe a proposed process for soliciting and evaluating NTAs in Connecticut (outside IRP)
 - Integrate regional activity to effectively inform CT of potential needs that are good candidates for NTAs
 - Effective use of ISO-NE Planning Advisory Committee (PAC) stakeholder meetings
 - Update on ISO-NE activity with NTA studies (i.e., recent pilot study of VT/NH)
 - ISO's plans for future NTA studies to address reliability needs (process, timing)
 - Connecticut Proactive RFP process



Emerging Issues

- The IRP will assess qualitatively the impact of FERC Order 1000
 - What might the inclusion of public policy requirements in regional system planning mean for ISO-NE and for Connecticut
 - What might the non-incumbent transmission developer provisions mean for Connecticut
 - What might the interregional planning and cost allocation provisions mean for Connecticut
- The IRP will describe the EIPC/ DOE study status



T&D Performance

- The IRP scope does not include distribution, but it will discuss distribution performance in the context of IRP objectives (cost, reliability)
 - Provide a high-level comparison of loss of load due to distribution outages vs. transmission and supply adequacy. Identify where the comparison is imperfect (e.g., distribution restoration is conducted through a highly prioritized process).
 - Describe ongoing investigation to review EDC response to Tropical Storm Irene
 - Describe the types of analyses that would have to be conducted to determine whether dollars are being well spent on distribution and whether less or more should be spent (e.g., to be staffed to be able to respond to a 1-in-20 year storm in 3 days)

