

Public Policy Requirements Driving Regional Transmission Needs

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ISO-NE Planning Advisory Committee
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- Order 1000 Obligation
- Identification of Public Policy Requirements (PPRs) that Implicate Regional Transmission
- Discussion of Possible Public Policy Transmission Upgrades (PPTUs)

Order 1000 Obligation

- Order 1000 requires public utility transmission providers to consider “transmission needs driven by public policy requirements in both the local and regional transmission planning processes.”
- Public policy requirements are “requirements established by local, state or federal laws or regulations (i.e., enacted statutes passed by the legislature and signed by the executive and regulations promulgated by a relevant jurisdiction, whether within a state or at the federal level)” and include “local laws and regulations passed by a local governmental entity, such as a municipal or county government.”

FERC, *Order on Rehearing and Compliance*, No. ER13-193-001,
150 FERC ¶ 61,209 (at para. 98 and n.147) (Mar. 19, 2015)

Order 1000 Obligation

- “ISO-NE, rather than NESCOE or the states individually, has the responsibility to determine whether to select potential [PPTUs] in the Regional System Plan for purposes of cost allocation.”
- “ISO-NE will consider, with input from stakeholders, only transmission needs driven by [PPRs], which is a role appropriate for its function as [an ISO]. ”
- “Public utility transmission providers and states can use the results . . . to inform their resource selections, just as they can use their resource selections to inform the regional transmission planning process.”

FERC, 150 FERC ¶ 61,209 (at para. 133).

Public Policy Requirements

1. Existing State Renewable Portfolio Standard Requirements
2. Massachusetts Energy Diversity Act of 2016 (H.4568)
3. Massachusetts and Connecticut Global Warming Solutions Acts of 2008

Public Policy Requirements

1. Existing State Renewable Portfolio Standard Requirements

MA – 25% by 2030 <ul style="list-style-type: none">• G.L. c. 25A, §§ 11F, 11F1/2• 225 CMR 14.00 -16.12	ME – 10% by 2017 <ul style="list-style-type: none">• 35-A M.R.S. § 3210; 2011 Public Law 413• CMR 65-407-311
CT – 20% by 2020 <ul style="list-style-type: none">• Gen. Stat. § 16-245a et seq.• 2015 Public Act No. 15-194	NH ~ 25% by 2025 <ul style="list-style-type: none">• RSA 362-F• Admin. Rules, Puc 2500; PUC Order No. 25,844
VT ~ 70% by 2030 <ul style="list-style-type: none">• 30 V.S.A. § 8001 et seq.• CVR 30 000 054. 4.300)	RI – 31% by 2030 <ul style="list-style-type: none">• Gen. Laws § 39-26-1 et seq.; 2016 H.B. 7413• CRIR 90-060-015

Public Policy Requirements

1. Existing State Renewable Portfolio Standard Requirements

- Together will require ~ 20% of ISO-NE load to be served by RPS compliant generation by 2025 (and almost 25% by 2030).
- Scenarios 2/6 of 2016 Economic Study:
 - Indicate generation required for 2025 and 2030 RPS-compliant grid.
 - Scale and type of PPTUs required to support such generation.

Public Policy Requirements

2. *Massachusetts Energy Diversity Act of 2016*

- Requires reasonable procurement contracts for 9.45TWh of hydro or hydro + RPS by 2022 (2008 Stat. 169, § 83C)
- Requires reasonable procurement contracts for 1,600MW of offshore wind by 2027 (2008 Stat. 169, § 83D)
- 2016 Economic Study (Scenarios 3 & 6) & 2015 Economic Study (OSW) indicate scale and type of PPTUs required.

Public Policy Requirements

3. *Massachusetts and Connecticut Global Warming Solutions Acts of 2008*

- MA G.L. c. 21N, § 3(b) requires 2050 statewide emissions limit that is at least 80 per cent below state's 1990 level.
- CT Gen. Stat. § § 22a–200 requires 2050 statewide emissions limit that is at least 80 per cent below state's 2001 level.
- Scenario 3 of 2016 Economic Study:
 - Indicate generation required for 2025 and 2030 GWSA-compliant grid.
 - Scale and type of PPTUs required to support such generation.

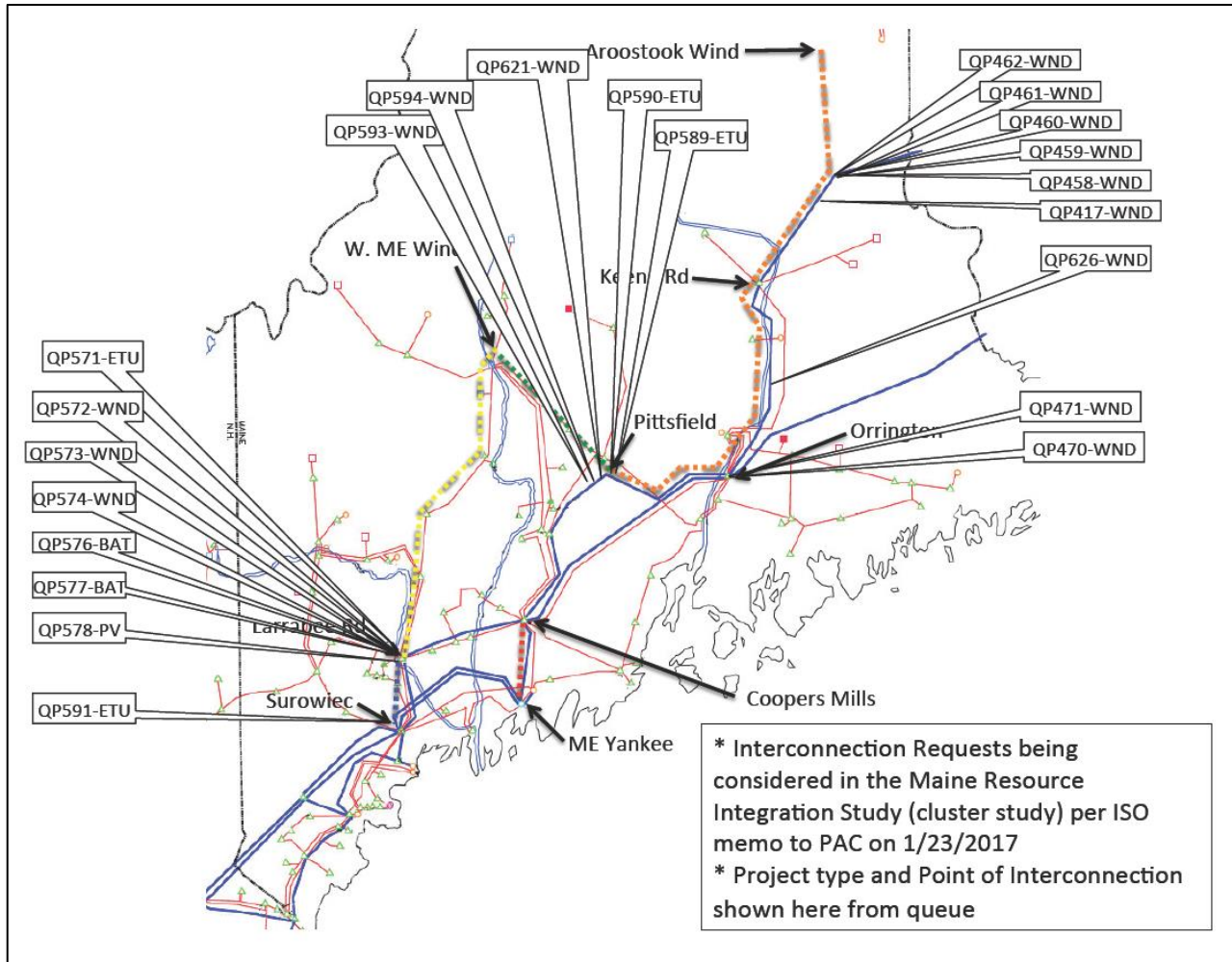
Public Policy Transmission Upgrades

Potential PPTUs supporting PPRs:

1. ME Resource Integration Study
2. Canadian Hydro-to-SEMA
3. Canadian Hydro + ME Wind-to-SEMA
4. Fed. RI/MA WEA-to-SEMA

Public Policy Transmission Upgrades

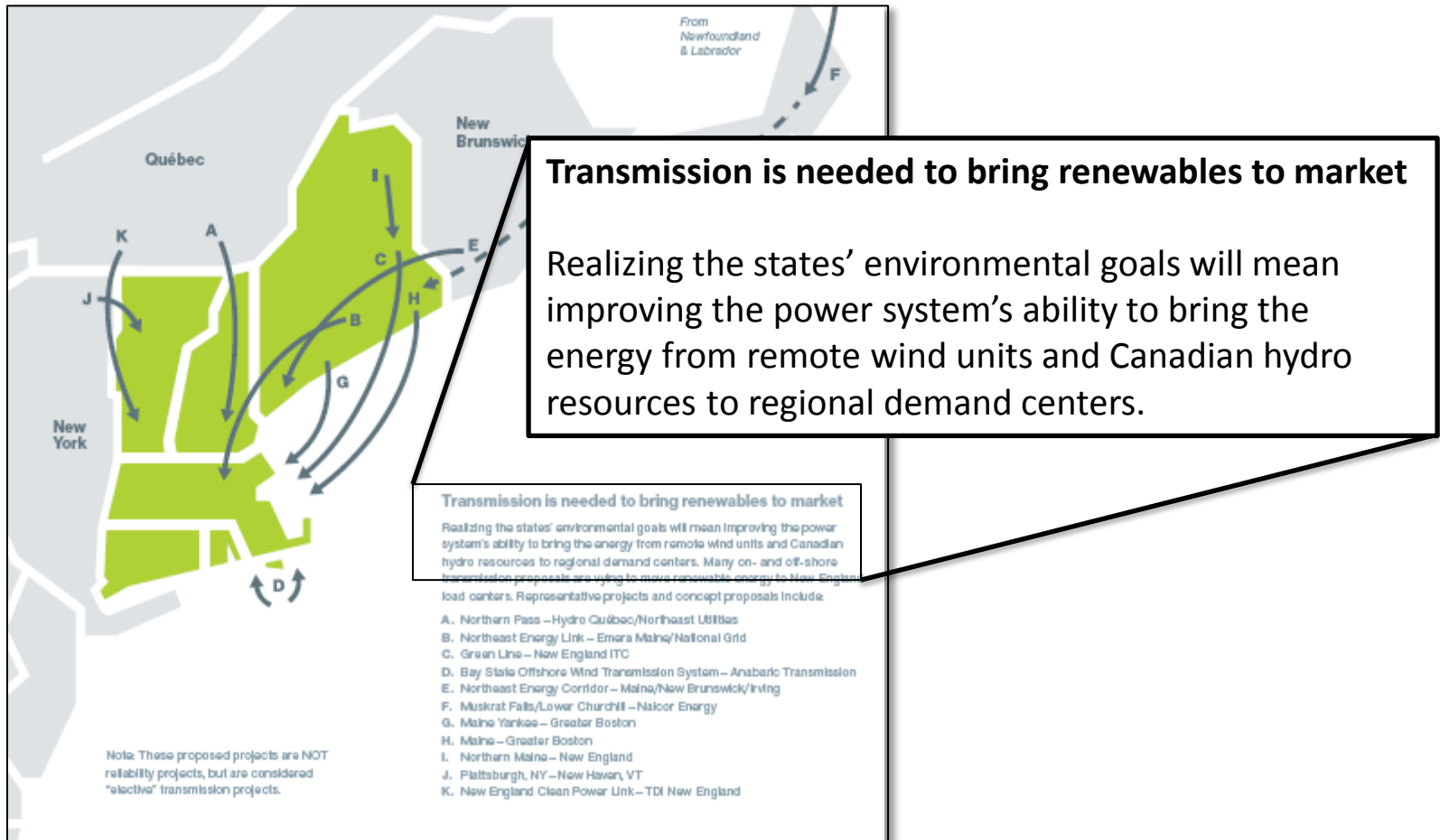
1. ME Resource Integration Study



Public Policy Transmission Upgrades

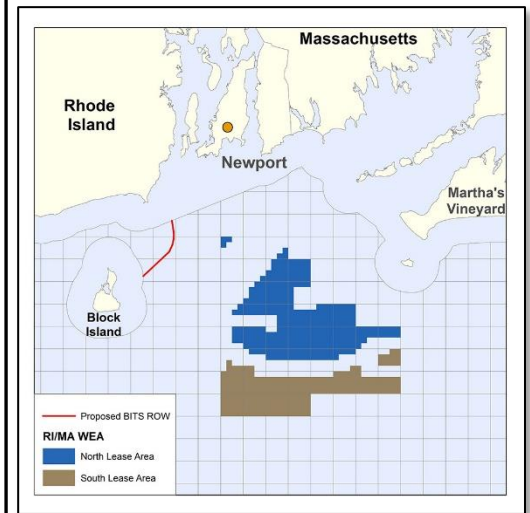
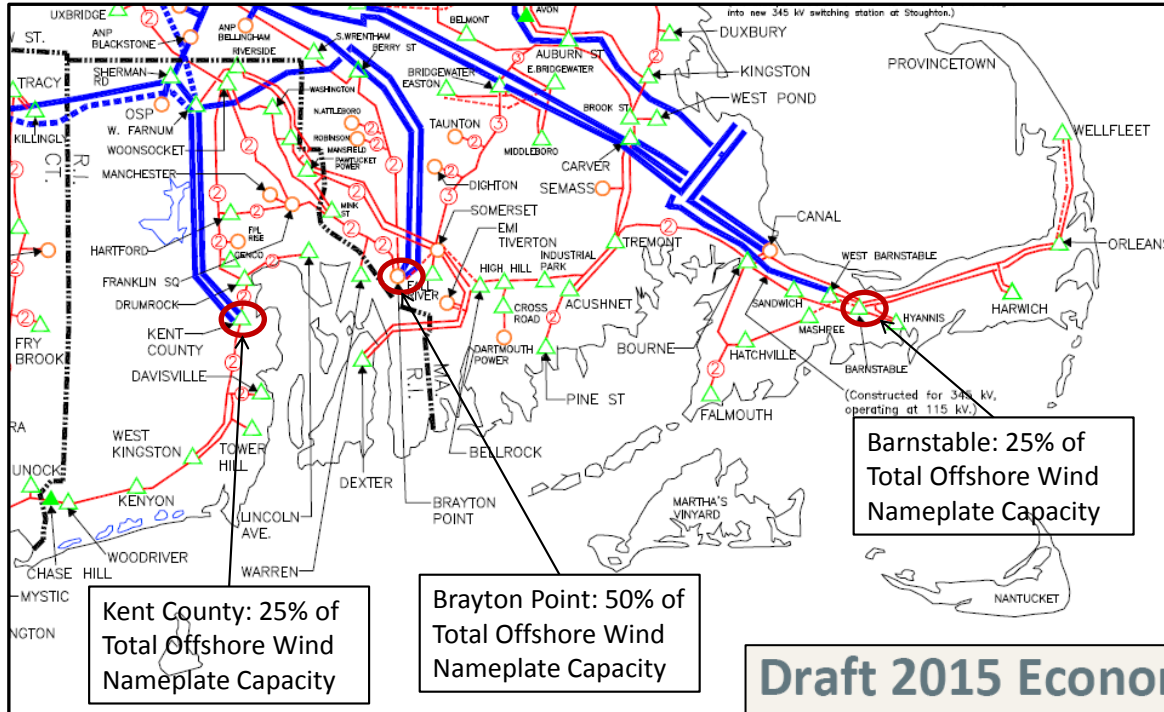
2. *Canadian Hydro-to-SEMA*

3. *Canadian Hydro + ME Wind-to-SEMA*



Public Policy Transmission Upgrades

4. Fed. RI/MA WEA-to-SEMA



**Draft 2015 Economic Study
Evaluation of Offshore
Wind Deployment**

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- Multiple state PPRs currently exist that will require near-term regional transmission solutions.
- ISO-NE should initiate a Public Policy Transmission Study to study a range of cost-effective PPTUs capable of satisfying those PPRs.