



# ISO New England Overview and Regional Update

---

*Vermont System Planning Committee  
January 2017 Quarterly Meeting*

Molly Connors

EXTERNAL AFFAIRS REPRESENTATIVE



# ISO REPORTS AND UPCOMING ACTIVITIES



# ISO-NE Reports and Activities

**Available Now:**

## New England Seasonal Outlook

- A new webpage briefly summarizes the outlook for the most current season
- Includes a one-page document for quick reference



## 2017 Training Schedule

- **Introduction to Wholesale Electricity Markets (WEM 101)**  
*April 3-7; September 25-29*
- **Intermediate Wholesale Electricity Markets (WEM 201)**  
*May 23-25; November 14-16*
- **Forward Capacity Market (FCM 101)**  
*October 23-26, 2017*

# ISO-NE Reports and Activities

*Coming Soon:*

## Consumer Liaison Group

- **March 2** at the Doubletree Hotel in Westborough, MA
- **June 1, September 7, and December 7**
- Meeting agendas, presentations, and summaries will be posted on the [CLG webpage](#)

## Environmental Advisory Group

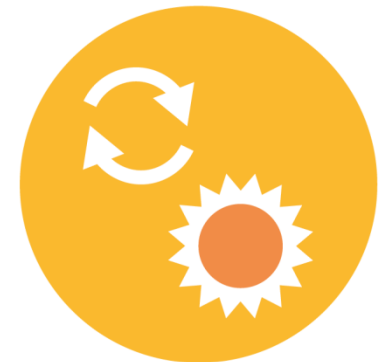
- **Tuesday, January 31** from 1 p.m. to 3 p.m.

## Energy Efficiency Forecast Working Group

- **Thursday, February 16** from 10 a.m. to noon

## Distributed Generation Forecast Working Group

- **Tuesday, February 28** from 9:30 a.m. to 3 p.m.



# FORWARD CAPACITY AUCTION #11



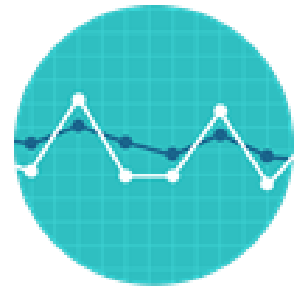
# Forward Capacity Market Overview



- Procures resources to meet New England's forecasted **capacity** needs three years in the future
- Selects a portfolio of **supply** and **demand** resources through a competitive Forward Capacity Auction (FCA) process
  - Resources must be pre-qualified to participate in the auction
  - Resources must participate and clear in the auction to be paid for capacity during the capacity commitment period
- Provides a long-term (up to 7-year) commitment to new supply and demand resources to encourage **investment**



# Forward Capacity Auction #11 at a Glance

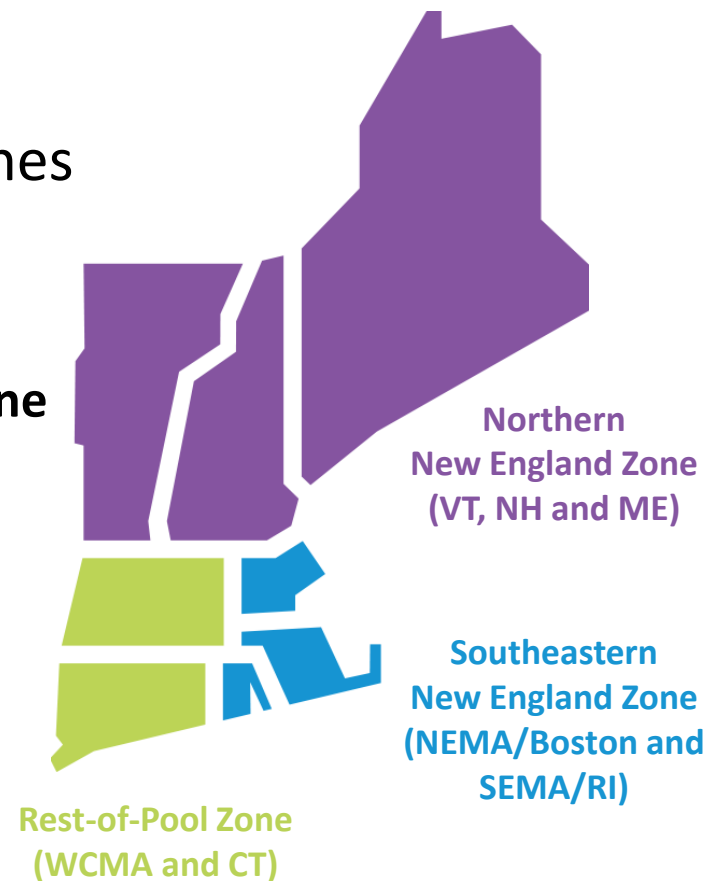


- The auction will begin on **February 6, 2017** to procure the capacity resources needed for the **2020-2021 Capacity Commitment Period**
- The net Installed Capacity Requirement (ICR) calculated for the auction is **34,075 MW**
  - ICR reflects a **720 MW reduction** from Behind the Meter (BTM) solar/photovoltaic investments
- The ISO qualified **5,958 MW** of new capacity resources and **34,505 MW** of existing capacity resources to participate
  - Includes **2,797 MW** of existing demand response

Source: ISO Filings to FERC; <https://www.iso-ne.com/participate/filings-orders/ferc-filings>

# Forward Capacity Auction #11 at a Glance, *continued*

- The ISO will model **three** capacity zones
  - **Northern New England Capacity Zone**
    - Export-Constrained
  - **Southeastern New England Capacity Zone**
    - Import-Constrained
  - **Rest-of-Pool Capacity Zone**
- The ISO will issue a press release with preliminary results shortly after the auction and subsequently file final results with the FERC





# DISTRIBUTED GENERATION FORECAST WORKING GROUP

# Updates from December 16, 2016 meeting

- **Representatives from each New England state presented:**
  - State renewable policies
  - Solar PV penetration
  - Future expectations for solar PV growth
- ISO-NE reviewed the results of its latest survey of distribution companies (through August 31, 2016)

## Aggregated Solar Data Provided by Distribution Companies

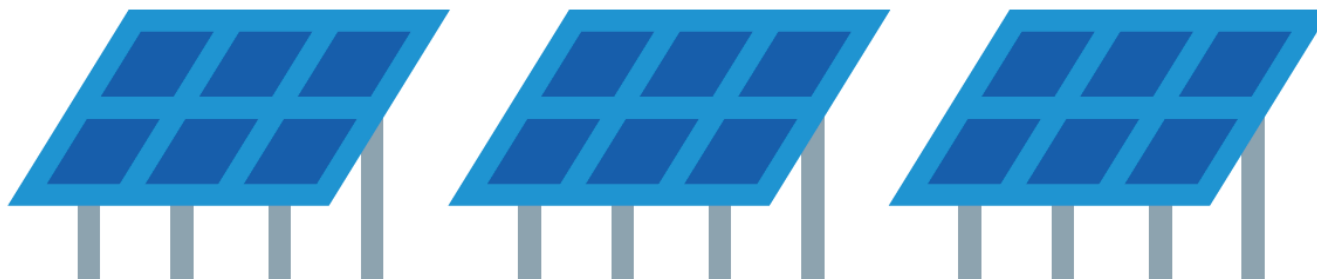
State	Installed Capacity (MWac)
Connecticut	246.45
Massachusetts	1,173.56
Maine	19.83
New Hampshire	43.77
Rhode Island	32.21
Vermont	151.22
New England	<b>1,667.04</b>

Source: <https://www.iso-ne.com/committees/planning/distributed-generation>

# DGFWG Next Steps



- **February 28, 2017**
  - Agenda will include a discussion of the draft 2017 PV forecast
- **April 2017:** Issue final PV forecast
- **May 2017:** Post PV forecast as part of the 2017 CELT report
- **Other meetings will be added as required**
  - ISO would like to discuss methods of improving/streamlining DG data collection processes

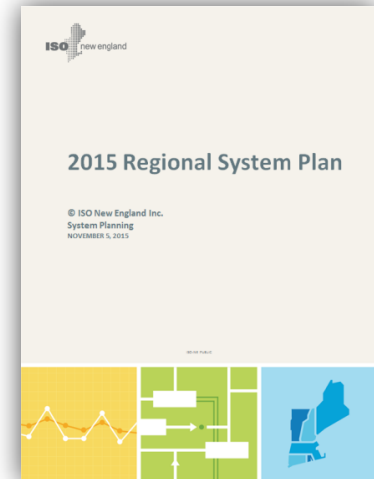


# TRANSMISSION PLANNING UPDATE



# Overview of Transmission Planning

- As the **Regional Transmission Organization**, the ISO is required to identify backstop transmission infrastructure solutions that are essential for maintaining power system reliability in New England
- **Mandatory reliability standards**, set by the North American Electric Reliability Corporation, drive the need for transmission investment
- Through an **open stakeholder process**, the ISO develops long-range plans to address future system needs
  - Summarized in a **Regional System Plan (RSP)** and other regular reports, including the load forecast and Transmission Project List
- The transmission planning process is governed by a **FERC-approved tariff**, which has been revised to comply with FERC Order 1000



# Next Steps for Order 1000 Implementation



- FERC Order 1000 is a federal order that institutes **competition** and the **consideration of public policy objectives** in transmission planning
- The ISO-NE transmission planning process has been revised to comply with FERC Order 1000
  - Several companies have applied to become Qualified Transmission Project Sponsors
  - ISO planning guides have been updated and discussed with stakeholders
  - A software vendor has been selected to support receipt and processing of responses to competitive solicitations for transmission proposals

# Process for Identifying Public Policy Requirements

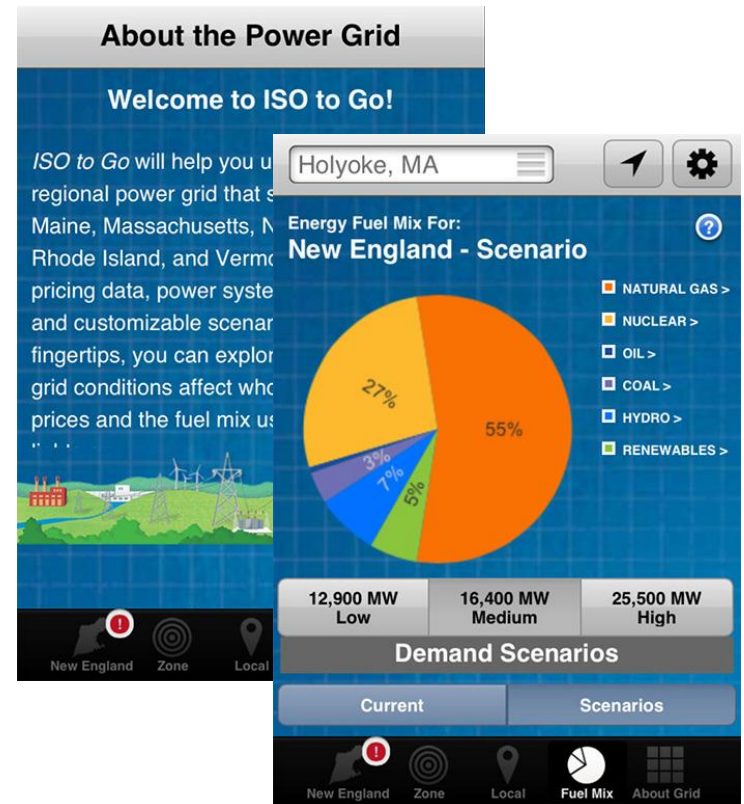
- ISO New England initiated the Public Policy Transmission Upgrade (PPTU) process on **January 11**, with a Public Notice requesting input on state, federal, and local Public Policy Requirements driving transmission needs, if any
- Input can be emailed to ISO at **PublicPolicy@iso-ne.com** through **February 25, 2017 (45 days)**
- The ISO will post such input on ISO's website:
  - <https://www.iso-ne.com/system-planning/system-plans-studies/public-policy-transmission-upgrades>
- Stakeholders will have opportunities to provide input at the **February 9 Planning Advisory Committee (PAC)** meeting



# For More Information...



- Subscribe to the **ISO Newswire**
  - [ISO Newswire](#) is your source for regular news about ISO New England and the wholesale electricity industry within the six-state region
- Log on to **ISO Express**
  - [ISO Express](#) provides real-time data on New England's wholesale electricity markets and power system operations
- Follow the ISO on **Twitter**
  - [@isonewengland](#)
- Download the **ISO to Go App**
  - [ISO to Go](#) is a free mobile application that puts real-time wholesale electricity pricing and power grid information in the palm of your hand





# Questions

