

To: NECPUC
From: Carolyn O'Connor
Date: March 29, 2012
Subject: Update on Recent and Upcoming Regional Activities

This memo is prepared by ISO's External Affairs Department to provide an update on several regional issues and activities that may be of interest to you. For your convenience, when appropriate, I have identified dates when key discussions and votes are scheduled to occur at stakeholder meetings, as well as planned filings.

There are also sections highlighting upcoming ISO speaking engagements and meetings that may be of interest. Additionally, this month I have included an [appendix](#) that contains an update of ISO New England's many reports and studies.

Issues and Updates

- [Draft Energy Efficiency Forecast Released](#)
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Draft Energy Efficiency Forecast Released

On March 19, 2012, the ISO released its draft energy-efficiency (EE) forecast – the first of its kind in the U.S. – with the goal of equipping transmission planners with information about the long-term impacts of state-sponsored EE investments.

The draft forecast¹ is the culmination of a multi-year research, data collection, and analysis process involving the region’s energy-efficiency stakeholders.

The methodology, which is similar to that used by the New York ISO, creates future EE budgets based on projections of current EE revenue sources (including system benefits charges, revenues from Regional Greenhouse Gas Initiative auctions, the Forward Capacity Market (FCM), and other sources). After projecting future budgets, the ISO can then calculate future energy savings.

To the largest extent possible, this approach is based on current data supplied directly from the Program Administrators (PAs) responsible for implementing state-sponsored EE initiatives. (A proof-of-concept of the methodology was presented to the Planning Advisory Committee in 2011).

Data collection for the initial EE forecast began in January 2012. ISO created an EE data gathering tool designed to provide the ISO with information on various EE programs, especially the “production cost” (the cost per MWh savings) of these programs.

The results show approximately 130 unique EE programs aimed at commercial/industrial, residential, and low-income customers. Of these programs, lighting measures constitute a majority of the energy and demand savings. Moreover, the commercial and industrial sectors provide the bulk of overall savings.

Draft Energy-Efficiency Forecast Results

Using data submitted by the Program Administrators, the ISO was able to forecast future EE budgets for 2015-2021. Energy Efficiency that cleared the first five forward capacity auctions for commitment periods through 2014 are included in the ISO’s existing planning process. Based on these longer-term projections, ISO was then able to forecast both peak and energy savings for the region, as well as each state, over this time period.

The draft results show that regional EE budgets are currently expected to increase from approximately \$792 million in 2015 to about \$831 million in 2021. The expected average annual energy savings from 2015 to 2021 amount to 1,561 GWh and the average annual peak savings amounts to 249 MW.

The graphs (on the following page) show the projected energy and peak savings respectively. The blue line is the traditional load forecast and the red line shows the impact of the known EE resources from the FCM held constant at 2014-levels. Finally, the black line shows the impacts of newly forecasted incremental increases of New England’s EE programs.

Potential Use of EE Forecast

EE forecast will be used in studies looking beyond the FCM timeframe:

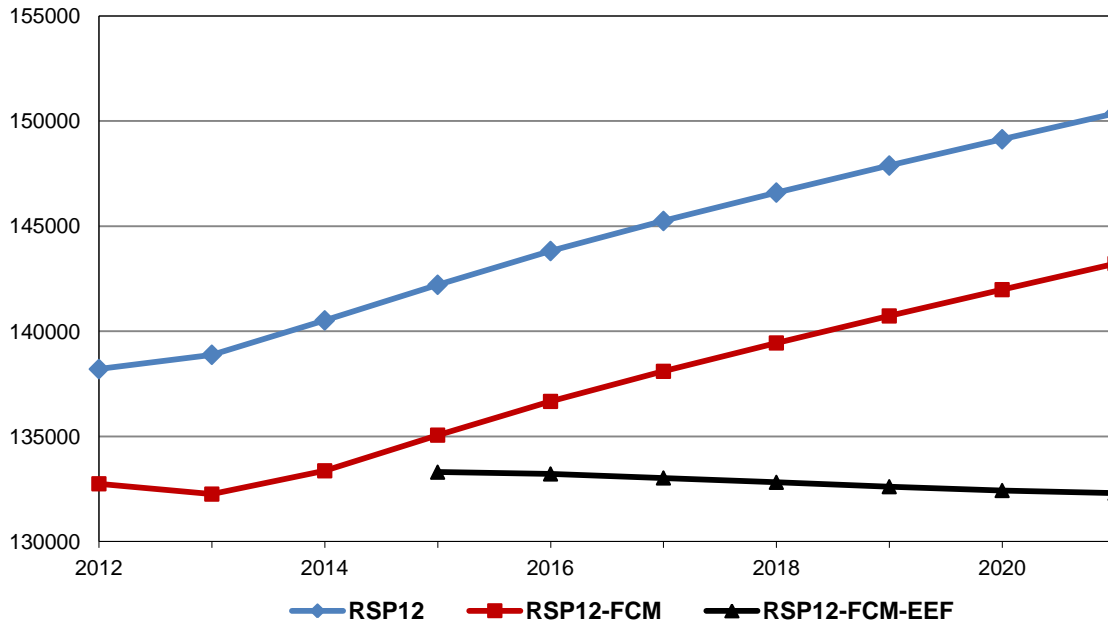
- Long-term transmission planning studies
- Economic planning studies
- Other planning studies

EE forecast will not impact:

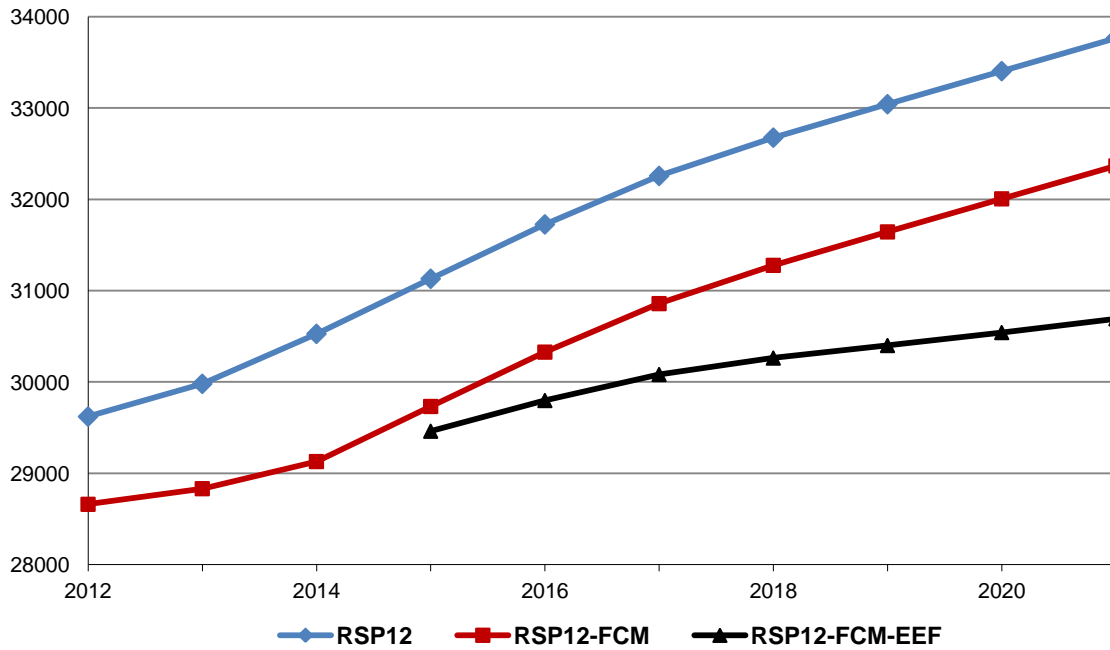
- FCM auctions
- ICR/Local Sourcing Requirement/Maximum Capacity Limit
- FCM related reliability studies
- Any System Operations analysis across the four-year FCM window

¹ See http://www.iso-ne.com/committees/comm_wkgrps/othr/engry_effncy_frctst/index.html

ISO-NE Annual Energy: RSP12 Forecast (GWh)



ISO-NE Summer Peak: RSP12 90/10 Forecast (MW)



Stakeholder Process

ISO has worked with a wide variety of regional stakeholders during the development of the EE forecast, and updated the Planning Advisory Committee on its EE forecast activities six times since late 2010. Moreover, the ISO established the Energy Efficiency Forecast Working Group (EEFWG) in 2012 to provide ongoing input into the EE forecast process. The working group is made up of state representatives with expertise in energy-efficiency programs, PAs and other interested parties, and provides guidance on EE forecast assumptions, methodologies, and data inputs. The EEFWG is chaired by ISO New England and is not a formal NEPOOL committee or subcommittee.

The ISO will finalize the EE forecast and publish it along with the traditional load forecast in the April timeframe.

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Follow-Up Analysis to the 2011 NH/VT Needs Assessment and Solutions Study

At the March 15, 2012 [PAC](#) meeting, ISO provided an update to the 2011 NH/VT Needs Assessment and Solutions Study. ISO conducted this follow-up analysis to incorporate the latest data into the Needs and Solutions Studies. Specifically, the follow-up analysis included assumptions based on the 2011 CELT load forecast, demand resources from FCA-4 and FCA-5 (including 75MW of DR in the NH/VT study area), and the results of the proof-of-concept energy-efficiency forecast. The follow-up also took into consideration two new wind resources that received capacity commitments through FCA-5 and a number of recent transmission upgrades.

As a result of this analysis, about 10 transmission upgrades in Vermont and New Hampshire, with a total cost of approximately \$265 million, will be deferred as they are no longer required within the ten-year planning timeframe. Continued analysis² is ongoing for the upgrades which weren't deferred, and the analysis is scheduled to be completed later this summer. The 2012 Regional System Plan will describe transmission projects that could meet the identified needs, and reflect these deferrals and any updated ISO analysis.

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Vermont Yankee Update

The U.S. District Court's January 2012 ruling that provisions of Vermont state law governing the operation of the Vermont Yankee nuclear power station (VY) were preempted by the federal Atomic Energy Act has sparked the following ongoing actions:

- Vermont appealed the decision and Entergy filed a cross appeal (no date has been set for the appeal);
- Entergy petitioned the VT Public Service Board to issue a ruling on their request for a renewed certificate of public good; and
- On March 19, 2012, the U.S. District Court issued an order that prevents Vermont from attempting to shut down VY while the appeal of that Court's decision is pending.

Vermont has also filed a separate suit challenging the NRC's decision to relicense VY claiming that it failed to obtain a state water quality certification.

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Forward Capacity Auction #6

The sixth Forward Capacity Auction will begin on April 2, 2012 to procure the resources needed for the period of June 1, 2015 – May 31, 2016. The auction is expected to last two days.

² I.3.9. Review of Market Participant's Proposed Plans, ISO New England Transmission, Markets, and Services Tariff, see http://www.iso-ne.com/regulatory/tariff/sect_1/sect_i.pdf.

A total of 36,257 MW of existing capacity and 2,474 MW of new capacity will compete to procure 33,456 MW needed to meet the Installed Capacity Requirement.³

See the January 2012 [memo](#) for more details about the resources that were qualified and rejected to participate in the auction.

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Consumer Liaison Group Discussion on Natural Gas

On March 8, the Consumer Liaison Group met for its first quarterly meeting of 2012 to discuss the current and future role of natural gas in New England's energy marketplace. Tom Kiley, President of the Northeast Gas Association, and panelists representing state consumer advocates, regulators, generators, natural gas transmission companies, and the ISO discussed natural gas trends and the challenges that a growing reliance on natural gas presents to the region. Specifically, panelists discussed natural gas' significance in New England's fuel mix, the expected potential for future supply from domestic shale gas deposits, prospects for natural gas pipeline expansion, and preliminary results of ICF International's [assessment](#) of the amount of natural gas supply available to satisfy New England's gas-fired generation through 2020.

Presentations are available on the [CLG webpage](#).

Election of CLG Coordinating Committee

Following the formal presentations, the CLG held its regular biennial election for [Coordinating Committee](#) members. Six of eight incumbents were re-elected and four new members were added. Members of the Coordinating Committee must represent each of the New England states and either be a ratepayer (or directly represent ratepayers), a member of a consumer organization, or a government consumer or government ratepayer advocate. Below are the Coordinating Committee members:

Incumbent Members

- **Robert Espindola** (MA), Energy Systems Program Manager, Acushnet Company
- **Agnes Gormley** (ME), Senior Counsel, Maine Public Advocate
- **Hans Mertens** (VT), Director Engineering Services/Chief Engineer, Vermont Department Public Service
- **Robert Rio** (MA), Senior Vice President Government Affairs, Associated Industries of Massachusetts
- **Mary Smith** (MA), Associate Director, Energy Supply and Utility Administration, Harvard University
- **Richard Steeves** (CT), Principal Utility Finance Specialist, Connecticut Office of Consumer Counsel

New Members

- **William Ferguson** (RI), Executive Director, The Energy Council of Rhode Island
- **August Fromuth** (NH), Managing Director, Freedom Energy Logistics
- **Donald Sipe** (ME), Partner, PretiFlaherty
- **Brooke Thomson** (MA), Chief, Business, Technology & Economic Development Division, Massachusetts Attorney General's Office

Future CLG meeting dates

- June 6 – Doubletree Hotel, Westborough, MA

³ The *Installed Capacity Requirement* is the amount of resources a balancing authority area needs to meet its resource adequacy planning criterion and when it needs these resources, according to the Northeast Power Coordinating Council resource adequacy criterion, A-2, *Basic Criteria for Design and Operation of Interconnected Power Systems*. This criterion states that the probability of disconnecting any firm load due to resource deficiencies must be, on average, less than once in 10 years.

- October 3 – Doubletree Hotel, Westborough, MA
- December 6 – Colonnade Hotel, Boston, MA

Additional Consumer Liaison Group information is available [here](#).

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“ISO New England 101” Training

The ISO will again offer a one-day training session for state and regional regulatory officials, legislators, consumer advocates, and consumer representatives that will cover an overview of New England’s bulk transmission system, ISO New England’s functions and responsibilities, and New England’s wholesale electricity markets (including the Forward Capacity Market).

The training will be comprehensive but not in-depth on any individual topic and will be held on Tuesday, October 2, 8:30 a.m. – 5:00 p.m. at the Doubletree Hotel in Westborough, Massachusetts.

Materials from last year’s training are available [here](#).

Individuals associated with a state agency are eligible to receive market training at a 50% discount. Registration is available [here](#).

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ISO New England Reports and Studies—March 2012 Update

ISO’s External Affairs Department has developed a table of the major ISO studies underway in the areas of strategic planning and regional system planning. The table is included below as an [appendix to the memo](#). This table will be updated on a periodic basis.

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Regional Planning Process

Planning Advisory Committee

The Planning Advisory Committee (PAC) is scheduled to meet April 18 at the Doubletree Hotel in Westborough, MA, beginning at 9 a.m.

Preliminary Topics

- Final Energy Efficiency Forecast
- Stakeholder Proposals for Economic Studies (Study requests due April 2)
- System Overview and Resource Assumptions for Future Years
- Scope of Work for Resource Adequacy Studies
- NH/VT Needs Assessment for 2022–Scope of Work
- Bear Swamp Upgrades Project Update
- New England East–West Solution (NEEWS)–Final Plan Update

Save these dates for future PAC meetings:

- May 16 and 17
- June 19
- July 18
- Aug. 9: draft RSP page-turn (Westborough)
- Sept. 13: RSP public meeting (Boston)

Meeting [materials](#) will be posted in advance of PAC meetings. Advanced registration is required. Please [register](#) online through the Calendar link on the [ISO website](#). ISO has a new, more user-friendly online registration process for PAC meeting registration. Using the Calendar, simply click “Register for this meeting” on the date of the PAC meeting you plan to attend. (You no longer need to register through the [ISO Training and Events Network](#).)

Please watch the *Agenda and Administrative Items* presentation posted for each meeting for updates on reports, correspondence, and other materials posted for the PAC. For a quick recap of the topics for past PAC meetings, please see the [PAC Agenda Summary](#) posted with the PAC meeting minutes.

Economic Studies

ISO New England conducts economic planning studies each year as outlined in [Attachment K](#) of the ISO tariff and study requests are reviewed with stakeholders through the PAC. The **deadline to submit 2012 economic study requests is April 2**. Requests should be submitted to PACMatters@iso-ne.com. Stakeholder presentations are scheduled for the April 18 PAC meeting.

Public Policy Transmission Studies

ISO and stakeholders have begun discussion of revisions to the ISO tariff to incorporate public policy-related transmission studies as part of the filing being prepared to comply with FERC Order 1000. ISO posted an initial [draft revision to the tariff](#) in the Transmission Committee materials for March 20. The draft is based on NESCOE’s draft [framework](#) for public policy projects released in January.

2011 Northeast Coordinated System Plan

New England stakeholders will have an opportunity to discuss the 2011 Northeast Coordinated System Plan (NCSP11), interregional production-cost studies, Order 1000, the Eastern Interconnection Planning Collaborative, and environmental issues during an IPSAC WebEx session March 30 (8:30 a.m. to 12:30 p.m.).

The draft 2011 NCSP is posted for stakeholder review on the ISO [website](#). Stakeholder comments will be taken at the meeting on March 30, and stakeholders will have an additional two weeks to submit follow-up comments. Written comments should be submitted by April 13, 2012 to PACMatters@iso-ne.com.

The IPSAC meeting is being convened in support of the comprehensive process of coordinating system planning activities established under the Northeastern ISO/RTO Planning Coordination Protocol (“Protocol”) by ISO, NYISO and PJM.

Registration for the IPSAC meeting is required by noon on March 29 and is available through the PJM [website](#). Questions regarding registration and WebEx participation can be addressed by contacting PJM Member Relations at 610-666-8980 or toll free at 866-400-8980.

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FERC Holds Workshop on Merchant Transmission Projects

On February 28, the Federal Energy Regulatory Commission [hosted a half-day workshop](#) to discuss viewpoints on a number of topics regarding the “Allocation of Capacity on New Merchant Transmission Projects and New Cost-Based, Participant-Funded Transmission Projects.”

Workshop participants were divided into smaller groups representing generators, merchant transmission developers, traditional utilities, and state regulators and ISOs/RTOs and were asked to provide their perspective to the larger audience.

The full-group discussion generally revolved around several policy issues, including the benefits and drawbacks of allowing bilateral agreements versus mandating some period of open season for capacity rights; granting preferential treatment to certain projects (possibly based on the fuel source, size of capacity desired, or credit worthiness); and identifying the risks and challenges in determining the right size for new transmission projects.

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Federal Affairs Update

Senate Energy Committee Holds FERC Confirmation Hearing

On March 20, the Senate Energy and Natural Resources Committee held a [confirmation hearing](#) for President Obama's two nominees to FERC – current Commissioner John Norris and Tony Clark, the head of the North Dakota Public Service Commission and former President of the National Association of Regulatory Utility Commissioners.

In his opening statement, Commissioner Norris noted that his vast experience before joining FERC drives him to support policies that are workable and benefit the consumer.

Commissioner Clark detailed the significant transformation North Dakota has undergone in the last decade, experiencing strong growth in wind generation and conventional forms of energy. He noted that North Dakota is a prime example of an “all of the above” energy state. Senators engaged the nominees in discussions ranging from FERC's backstop siting authority, possible reliability concerns relating to EPA regulations, and potential natural gas exports.

Committee Chairman Jeff Bingaman (D-NM) voiced his support for the nominees and said he hopes they can move ahead “in the near future.” However, it is difficult to predict the pace at which the U.S. Senate confirms any Presidential nominees, as quite often nominees can be held up by unrelated policy matters.

Senate Defeats Amendments Extending, Revoking Production Tax Credit

Earlier this month, the U.S. Senate defeated a pair of amendments impacting the Production Tax Credit (PTC) for renewable energy generation. During its debate on the reauthorization of a surface transportation bill, the Senate defeated an amendment by Sen. Debbie Stabenow (D-MI) that would have not only [extended the PTC](#) for an additional year, but revived the Treasury Department's expired Section 1603 grant program and supported additional incentives for energy efficiency upgrades. The same day, senators rejected an effort by Sen. Jim DeMint (R-SC) to [repeal the PTC](#) and a host of other conventional and renewable energy production incentives and direct the savings to lower the corporate tax rate.

Chairman Bingaman Introduces Clean Energy Standard Legislation

On March 1, Chairman Bingaman introduced a [24-page bill](#) to implement a national Clean Energy Standard (CES) called for by President Obama in his 2012 (and 2011) State of the Union Address. The Chairman himself publicly recognizes that meaningful progress on a CES is extremely unlikely in 2012.

The “Clean Energy Standard Act of 2012” directs utilities to purchase a minimum percentage of their electricity from non- or low-carbon sources including (but not limited to) wind, solar, qualified biomass, nuclear, and natural gas. The measure calls for a minimum annual clean energy percentage of 24% in 2015 and peaking at 84% by 2035 (above the 80% level called for by President Obama), although it does include an alternative compliance payment option -- payments that would be directed to state energy efficiency programs. Smaller utilities are exempted, specifically those selling fewer than 2 million MWh annually in 2015 and shrinking to 1 million MWh in 2025.

Alternative Cybersecurity Bill Introduced

Senate Armed Services Committee Ranking Member John McCain (R-AZ), along with a number of other influential Republicans, recently introduced a cybersecurity measure as an alternative to the bill authored by

Senate Homeland Security Committee Chairman Joe Lieberman (ID-CT). The authors of the [SECURE IT Act](#) tout its partnership approach between the public and private sectors and the absence of both new regulations for the private sector and new government funding. At its core, the bill works to “improve cybersecurity by collaborating with industry and eliminating barriers to enhanced information sharing.” On the federal side, the bill updates the Federal Information Security Management Act and empowers National Institute of Standards and Technology and the Department of Commerce to create cyber-standards for the federal government. This is a significant philosophical shift from Sen. Lieberman’s bill which in some cases may subject privately-owned critical cyber infrastructure (such as the electric grid) to new regulations from the Department of Homeland Security. Senate Energy Committee Ranking Member Lisa Murkowski is a co-sponsor of the SECURE IT bill.

The Senate Majority Leader has indicated he will bring up Senator Lieberman’s bill in the near future and it is likely Senator McCain’s bill could be offered as a substitute through the amendment process. In the meantime, the two offices are reported to be working together to arrive at compromise legislation.

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February 2012 Wholesale Electric Costs

Wholesale costs declined in February 2012 from the previous month, with the average Real-Time Hub price of \$30.14/MWh 19% below the January 2012 level and 47% less than a year ago. The average Day-Ahead Hub price, \$30.92, fell almost one-quarter from January and is 44% below February 2011.

The price of natural gas fell significantly in February, with the Algonquin natural gas price averaging \$3.64/MMBtu, down from \$5.35/MMBtu in January and 42% below February 2011 levels.

	February 2012	February 2012 Compared to January 2012	February 2012 Compared to February 2011
Average Day-Ahead LMP (hub)	\$30.92/MWh	-24%	-44%
Average Real-Time LMP (hub)	\$30.14/MWh	-19%	-47%
Average Natural Gas Price	\$3.64/MMBtu	-32%	-42%
Peak Real-Time Load	18,320 MWh	-8%	-8%
Average Real-Time Load	14,496 MW	-4%	-6%

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ISO Speaking Engagements and Other Meetings of Interest

May 7–8, 2012

Northeast Energy and Commerce Association (NECA) Annual Energy Conference, Sea Crest Beach Hotel, Falmouth, MA (Keynote Speaker: ISO New England President & CEO Gordon van Welie. Panelists include ISO-NE’s Anne George, Vice President, External Affairs and Corporate Communications; and Patricio Silva, Senior Analyst, System Planning). [Conference website](#).

May 20-22, 2012

65th Annual NECPUC Symposium, The Samoset, Rockport, ME. Registration open: [Conference website](#).

June 26–28, 2012

NEPOOL Summer Meeting, Newport, RI

	Participants Committee	Markets Committee	Reliability Committee	Planning Advisory Committee	Transmission Committee	NECPUC Conference Call
Apr.	13	10, 11	17	18		9
May	4	9, 10	15	16, 17	1, 24	14

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Appendix: ISO New England Reports and Studies—March 2012 Update

Description	Author	Status
1. Strategic Planning Initiative		
a. Roadmap for New England: A Proposal for Meeting the Challenges Identified in the Strategic Planning Initiative ⁴	ISO New England (ISO)	Posted March 2012
i. Alignment of Markets and Planning Whitepaper ⁵	ISO	Posted October 2011
ii. Forward Capacity Market (FCM) Whitepaper	ISO	ISO plans to issue the whitepaper in May 2012.
b. Assessment of New England’s Natural Gas Pipeline Capacity to Satisfy Short and Near-Term Power Generation Needs	ICF Resources LLC, for ISO	ISO and ICF Resources presented initial findings to PAC, December 14, 2011; ISO posted stakeholder comments in January 2012; report to follow in April 2012.
c. Strategic Transmission Analysis—Implications for Greater Renewable Generation and Generator Retirements on Transmission System Requirements	ISO System Planning	ISO presented scope of work (SOW) and assumptions to PAC, September 21, 2011; ISO presented updates to PAC, December 14, 2011, and March 14, 2012, and further PAC discussions are planned for May 17.
2. Economic Studies		
a. 2010 Economic Study (retirement scenarios)	ISO System Planning	ISO presented results to PAC, February 16 and March 16, 2011; ISO summarized results in RSP11, Section 13.1 [Complete]
b. 2011 Economic Study (wind scenarios)	ISO System Planning	ISO presented an overview of GridView and a draft SOW to PAC, May 26, 2011; ISO presented results to PAC, July 21, September 21, November 16, 2011, and February 15, 2012; ISO posted stakeholder comments, March 2012 and had PAC conference calls on March 8 and 14. Another conference call is scheduled for April 5 and further PAC discussions are planned for May 17.

⁴ http://www.iso-ne.com/committees/comm_wkgrps/strategic_planning_discussion/materials/strategic_plan_initiative_roadmap_march_2012.pdf

⁵ http://www.iso-ne.com/committees/comm_wkgrps/strategic_planning_discussion/materials/alignment_of_markets_and_planning_white_paper.pdf

Description	Author	Status
c. 2012 Economic Study	ISO System Planning	ISO presented to PAC the process for stakeholders to submit requests for economic studies, February 15, and March 14 and 15; <i>requests due April 2.</i>
3. Regional System Plan and Load Forecast Report		
a. 2011 Regional System Plan (RSP11)	ISO System Planning	ISO posted final report, October 21, 2011 [Complete]
b. 2011 Renewable Portfolio Standard (RPS) spreadsheet ⁶ (companion to RSP11)	ISO System Planning	ISO posted spreadsheet, October 18, 2011 [Complete]
c. 2012 Regional System Plan (RSP12)	ISO System Planning	ISO presented SOW to PAC, January 18, 2012; Annual RSP “page turn” planned for August 9, 2012; Public Meeting planned for September 13.
i. RSP Transmission Projects	ISO System Planning	ISO presented an update to PAC, March 14, 2012.
d. 2012 Capacity Energy Loads and Transmission (CELT) Report (2012–2021)	ISO System Planning	ISO presented the preliminary load forecast to PAC in the February–March 2012 timeframe, and plans to publish the full CELT Report in May 2012.
e. Energy-Efficiency Forecast (2015–2021)	ISO System Planning	ISO presented updates on the new <i>energy-efficiency</i> forecast, to PAC, March 15, 2012, and to the Energy-Efficiency Forecast Working Group (EEFWG), March 16, 2012; ISO posted a draft <i>energy-efficiency</i> forecast, March 20, 2012, ⁷ and further discussion is planned with the EEFWG, April 12, 2012, and with PAC, April 18, 2012.
4. Other ISO Studies		
a. 2010 ISO New England Electric Generator Air Emissions Report	ISO System Planning	ISO presented preliminary results to Environmental Advisory Group, December 2, 2011; ISO posted draft report, March 2012.
b. 2009 ISO New England Electric Generator Air Emissions Report ⁸	ISO System Planning	ISO posted report, March 2011 [Complete].
c. New England Wind Integration Study (NEWIS) ⁹	GE, Enernex, AWS Truepower	ISO posted report, December 5, 2010 [Complete].

⁶ http://www.iso-ne.com/committees/comm_wkgrps/prtcpnts_comm/eag/usr_sprdshts/index.html

⁷ http://www.iso-ne.com/committees/comm_wkgrps/othr/enrgy_effncy_frctst/index.html

⁸ http://www.iso-ne.com/genrtion_resrcs/reports/emission/final_2009_emissions.pdf

⁹ http://www.iso-ne.com/committees/comm_wkgrps/prtcpnts_comm/pac/reports/2010/newis_es.pdf

Description	Author	Status
5. ISO-NE Transmission Planning Studies for Major Projects^{10, 11}		
a. New Hampshire/Vermont	ISO System Planning	<p>ISO posted 2011 Needs Assessment, November 2011;</p> <p>ISO presented preferred solutions to PAC, July and November 2011, and January 2012;</p> <p>ISO presented updates and next steps to PAC, January 18, 2012, and March 15, 2012;</p> <p>Draft New Hampshire/Vermont Transmission Solutions Study and Appendices (both contain CEII) were posted for PAC review; <i>comments due March 28.</i></p> <p>Draft Follow-up Analysis to the New Hampshire/Vermont Needs Assessment, and Solutions Study, and associated appendices were presented to PAC, March 15, 2012, and posted for PAC review; <i>comments due April 12.</i></p>
i. Market Resource Alternatives Analysis, Results	ISO System Planning	ISO presented results for the NH/VT area to PAC, May 26, 2011.
b. New England East–West Solution: Interstate Reliability Project	ISO System Planning	<p>ISO posted updated Needs Assessment, May 2, 2011;</p> <p>ISO posted updated Solutions Study, February 2012;</p> <p>ISO plans update to PAC, April 18, 2012.</p>
c. Greater Hartford/Central Connecticut (GH/CC)	ISO System Planning	ISO presented SOW to PAC, March 16, 2011; ISO posted SOW report, June 2011.
i. Market Resource Alternatives Analysis, Scope of Work, GH/CC	ISO System Planning	ISO presented SOW to PAC, December 14, 2011.
d. Southwest Connecticut	ISO System Planning	<p>ISO posted Needs Assessment, July 13, 2011;</p> <p>ISO presented an update on continuing alternatives analysis to PAC, November 16, 2011;</p> <p>ISO plans solution study updates in 2012.</p>

¹⁰ Needs Assessments and Solution Studies posted on PAC website under Reports; http://www.iso-ne.com/committees/comm_wkgrps/prtcpnts_comm/pac/index.html.

¹¹ PAC presentations often include the study history for a particular project.

Description	Author	Status
e. Greater Boston: North, South, Central	ISO System Planning	ISO presented preliminary solutions to PAC, June 30, 2011; ISO presented updates to PAC on preferred solutions, January 18, 2012, and March 14, 2012.
f. Pittsfield/Greenfield Project	ISO System Planning	ISO presented critical load level analysis and preferred solutions updates to PAC, July 15, 2010, and March 14, 2012, respectively; Draft Pittsfield-Greenfield, MA Area Solutions Study and Appendices (both contain CEII) were posted on February 27, 2012, for PAC review; <i>comments due March 26.</i>
g. Southeast Massachusetts/Rhode Island	ISO System Planning	ISO presented SOW to PAC, March 16, 2011.
6. Interregional and National Studies		
a. Northeast Coordinated System Plan 2011 (NCSP11)	ISO New England, New York ISO and PJM	The three ISOs posted a draft 2011 NCSP report March 21, 2012, for discussion with the Inter-Area Planning Stakeholder Advisory Committee (IPSAC), March 30, 2012; <i>comments due April 13.</i>
b. 2011 Joint Report on the Impact of Environmental and Renewable Technology Issues in the Northeast: In support of the NCSP ¹²	ISO New England, New York ISO and PJM	ISOs posted report, June 24, 2011. [Complete]
c. New York/New England Economic Study Process Report and Illustrative Results ¹³	ISO System Planning	ISO posted report, June 29, 2011. [Complete]
d. NCSP 2009 ¹⁴	ISO New England, New York ISO and PJM	ISOs posted report, May 24, 2010. [Complete]
e. 2012 National Electric Transmission Congestion Study	U.S. Department of Energy	ISO-NE participated in U.S. DOE's regional workshop, December 6, 2011, in Philadelphia; U.S. DOE posted stakeholder comments as of February 2012 and will continue to accept comments through March 30, 2012; ¹⁵ U.S. DOE expects to release a draft report for comment in 2012.

Other resources:

¹² http://www.iso-ne.com/committees/comm_wkgrps/othr/ipsac/reports/2011/env_renewable_report.pdf

¹³ http://www.iso-ne.com/committees/comm_wkgrps/othr/ipsac/reports/2011/ny_ne_eco_study.pdf

¹⁴ http://www.interiso.com/public/document/NCSP_2009_20100524.pdf

¹⁵ <http://energy.gov/oe/services/electricity-policy-coordination-and-implementation/transmission-planning/2012-national>

2011 *Regional System Plan*, Section 7, Transmission Security and Upgrades: <http://www.iso-ne.com/trans/rsp/index.html>

Regional System Plan Transmission Project List: http://www.iso-ne.com/committees/comm_wkgrps/prtcpnts_comm/pac/projects/index.html

PAC Agenda Summary (lists topics by meeting date): http://www.iso-ne.com/committees/comm_wkgrps/prtcpnts_comm/pac/mins/index.html

The *Agenda and Administrative Items* presentation posted for each PAC meeting contains updates on reports, correspondence, and other materials posted for PAC review: http://www.iso-ne.com/committees/comm_wkgrps/prtcpnts_comm/pac/mtrls/index.html

Regional System Plan (RSP) Project Stage Descriptions, Monthly COO report to NEPOOL Participants Committee: http://www.iso-ne.com/committees/comm_wkgrps/prtcpnts_comm/prtcpnts/mtrls/index.html

Environmental Advisory Group: http://www.iso-ne.com/committees/comm_wkgrps/prtcpnts_comm/eag/index.html

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