

## **FINAL**

A meeting of the NEPOOL Participants Committee was held beginning at 10:00 a.m. on Friday, February 3, 2017, at the Seaport Hotel, Boston, MA, pursuant to notice duly given. A quorum determined in accordance with the Second Restated NEPOOL Agreement was present and acting throughout the meeting. Attachment 1 identifies the members, alternates and temporary alternates who attended the meeting.

Mr. Thomas Kaslow, Chair, presided and Mr. David Doot, Secretary, recorded. Mr. Kaslow welcomed the members, alternates and guests who were present.

### **APPROVAL OF JANUARY 6, 2017 MEETING MINUTES**

Mr. Kaslow referred the Committee to the preliminary minutes for the January 6, 2017 teleconference meeting as circulated in advance of the meeting. Following motion duly made and seconded, the preliminary minutes of the January 6 meeting were unanimously approved without change.

### **CONSENT AGENDA**

Mr. Kaslow referred the Committee to the Consent Agenda that was circulated in advance of the meeting. Following motion duly made and seconded, the Consent Agenda was approved with an opposition noted by CMEEC. The CMEEC representative stated the opposition related to concerns identified with respect to Consent Agenda Item 1 (ISO Planning Procedure No. 3 (Reliability Standards for the New England Area Pool Transmission Facilities)).

### **ISO CEO REPORT**

Mr. Gordon van Welie, ISO Chief Executive Officer (CEO), referred the Committee to the summaries of the ISO Board and Board Committee meetings that had occurred since the January 6 meeting, which had been circulated and posted in advance of the meeting. There were no questions or comments on the summaries.

Mr. van Welie next reported that the ISO would publish its annual Regional Electricity Outlook in late February. He highlighted the following two themes that would be included in the report:

- (1) Fuel Security - ISO analysis on how to maintain reliability if there were to be no new pipeline infrastructure into the region.
- (2) Integrating Markets and Public Policy (IMAPP) – Discussion on the various tradeoffs associated with options under consideration, which would serve as the basis for talking points on the topic in the New England region and beyond.

He reminded members of his report in December that the ISO planned to complete its fuel security analysis in the second half of 2017 and would present that analysis to members at the appropriate NEPOOL Technical Committee. He predicted that any market changes to account for the fuel security analysis would likely not occur until 2018.

Mr. van Welie responded to a question concerning the ISO's performance relative to its 2016 goals, stating that the ISO performed well overall. He added that the ISO met its goals on project delivery, and fell a little short on some operational metrics.

Explaining further the ISO's concerns with fuel security, Mr. van Welie summarized that, in the winter, reliability was being maintained by running a lot of oil and liquefied natural gas (LNG)-fired resources. If that continued, and there was no new pipeline infrastructure into the region, it would become increasingly clear that the region would need those resources in addition to the remaining nuclear capacity. He suggested that, with more renewable resources on the system, however, revenues from the energy market would continue to decline, making units relied on during the winter more economically vulnerable. He added that, as oil and nuclear resources retire, the region would approach a point where winter reliability could be compromised, with summer reliability problems potentially emerging thereafter. He expressed a concern with the impact of this situation on future forward capacity auctions (FCA) where, in the absence of considering the fuel security issue, it would appear on paper that the region has

sufficient capacity to let these units otherwise counted on for reliability to retire, but when available fuel to power the remaining plants was factored in, it could become increasingly difficult to maintain reliability. He did not believe that this concern would arise for the upcoming eleventh FCA (FCA11) but was uncertain whether that would be true for FCA12.

## **ISO COO REPORT**

Dr. Vamsi Chadalavada, ISO Chief Operating Officer (COO), reviewed highlights from the February COO report, which was circulated in advance of the meeting and posted on the NEPOOL and ISO websites. Focusing on report highlights, which he explained reflected data through January 25, 2017, he reported for January that: (i) Energy Market value was \$378 million, down \$236 million from December 2016 and down \$67 million from January 2016; (ii) average natural gas prices were 23% lower than December 2016 average prices; (iii) average Real-Time Hub LMPs (\$37.54/MWh) were 30% lower than December 2016 LMPs; (iv) average daily (peak hour) Day-Ahead cleared physical Energy, as a percent of forecasted load, was 98.5% in January, up from 97.5% in December; (v) daily Net Commitment Period Compensation (NCPC) for January totaled \$3.3 million, down from the \$6.6 million of NCPC experienced in December 2016 and \$4.0 million lower than NCPC in January 2016; (vi) first contingency payments, totaling \$3.0 million, were \$2.0 million lower than December's; (vii) second contingency payments totaled \$340,000, which occurred in Northeast Massachusetts and Boston Load Zone (NEMA) on two days (January 9 and 10) and were \$1.1 million less than December's; (viii) voltage support payments totaled \$26,000, down \$148,000 from December's; and (ix) NCPC payments were 0.9% of the total Energy Market value.

He reported that January was extraordinarily warm, citing for example that Connecticut average temperatures were seven degrees above average. He committed to review temperatures

across New England for the current winter and to contrast Winter 2016/17 with prior winters, including Winter 2014/15 when the region experienced the polar vortex.

Regarding the Winter Reliability Program, Dr. Chadalavada reported that the ISO did not yet have final January fuel usage data. He committed to have that information distributed when it became available.

He then provided an update on the 2016 Economic Study. He reported that Phase I of that Study was complete and Phase II underway. Focusing on two key milestones, he reported that the ISO would be prepared to discuss the impact of the various scenarios on FCA clearing prices in Q2, and would discuss in Q4 the operational aspects of those scenarios, particularly with regard to ramping and frequency and Ancillary Services.

Dr. Chadalavada then reviewed FCM highlights, reporting that February 6 was the start date for FCA11, which the ISO would report on once the results of the auction were complete. He said that preparations were already underway for FCA12, and the ISO was scheduled to issue existing resource qualification notices on February 24. He reminded members that Retirement De-List Bids and Permanent De-List Bids were due on March 24.

Continuing, Dr. Chadalavada reported on plans to implement three large projects on March 1: (1) fast-start pricing; (2) sub-hourly settlement; and (3) improvements to the way pump storage hydro-generating resources are modeled. Implementation of pay-for-performance and price-responsive demand was scheduled for June 1, 2018.

He concluded his presentation referring to a chart reflecting 2017 System Operations Load Forecast Accuracy. He observed that the ISO hoped to keep the percentage error for all of 2017 at or below 1.5% and for Summer 2017 at or below 2.6%. He stated that the ISO had major efforts underway in 2017 and planned for 2018 to improve operational load forecast accuracy, which as in all of the other organized markets, continued to be a vexing problem. He

committed to provide additional information at the following meeting on the ISO's efforts and plans.

Responding to questions concerning uplift incurred in NEMA on January 9 and 10, Dr. Chadalavada explained that the uplift was due to a combination of smaller transmission outages, some on the 115 kV system and a couple 345 kV outages. None of the outages were related to transmission work in Greater Boston. He expected that one of the 345 kV lines (undergoing relay work) would be back in service by February 6, and the other back in April, but additional commitment needs were likely to end with the restoration of service of the first line on February 6. Looking forward to Fall 2017, he said that continuing construction of the Greater Boston Upgrades would cause out-of-merit commitments, but the ISO had not been able yet to consider all the requested outages for the fall.

#### **INTERCONNECTION CLUSTERING REVISIONS**

Ms. Mariah Winkler, Transmission Committee Chair, referred the Committee to the materials posted in advance of the meeting concerning revisions to Sections I and II of the ISO Transmission, Markets and Services Tariff (Tariff) to reflect an ISO proposal to enable the clustering of interconnection requests for study and cost allocation purposes (Interconnection Clustering Revisions). She reported that the Transmission Committee, at its January 24, 2017 meeting, considered and recommended Participants Committee support for the Interconnection Clustering Revisions with a 73.55% Vote in favor. She noted that the ISO had identified some additional clarifying changes, which had been circulated to the Committee. She also reported that there were two proposed amendments at the Transmission Committee that had failed and that the ISO had provided a memorandum included with the meeting materials explaining its opposition to one of those amendments.

The following main motion was then duly made and seconded, reflecting the ISO proposed and Transmission Committee-recommended Interconnection Clustering Revisions, as clarified in advance of the meeting:

RESOLVED, that the Participants Committee supports the Interconnection Clustering Revisions, as recommended by the Transmission Committee and as reflected in the materials distributed to the Participants Committee for its February 3, 2017 meeting, together with the additional non-substantive changes proposed by ISO-NE and distributed in advance of the meeting and such additional non-substantive changes as may be agreed to after the meeting by the Chair and Vice-Chair of the Transmission Committee.

***RENEW Amendment***

A representative of RENEW New England then reviewed RENEW's proposed amendment (sponsored by the Union of Concerned Scientists) (RENEW Amendment), noting that materials about the Amendment that had been distributed to the Participants Committee and posted in advance of the meeting. She explained that the RENEW Amendment was designed to better synchronize the interconnection clustering process with state energy procurement processes, so that developers could afford to fund major interconnection-related upgrades with assurance that they had been selected in the state procurements. She predicted that developers would be unwilling or unable to fund upgrades without that further assurance and clusters would not form for lack of funding certainty. She stated that the RENEW Amendment would provide the States an option to receive more information about potential solutions for the cluster and up to an additional five months to synchronize the states project selection process with the process for funding cluster upgrades. She stated that the RENEW Amendment would permit a state-selected competitive transmission project to be a Cluster Enabling Transmission Upgrade (CETU), which was an outcome not possible under the unamended proposal.

The following motion to amend the main motion was then duly made and seconded:

RESOLVED, that the Participants Committee supports the amendment to the Interconnection Clustering Revisions, as proposed by RENEW and as reflected in the materials distributed to the Participants Committee for its February 3, 2017 meeting, together with such non-substantive changes as may be agreed to after the meeting by the Chair and Vice-Chair of the Transmission Committee.

Those speaking in favor of the RENEW Amendment supported aligning the cluster interconnection process and state energy procurement processes in order to get needed transmission built. The NESCOE representative's principal concern was to advance a cluster proposal without delay. She reported that the States supported the ISO Proposal, and also generally supported the optionality and flexibility afforded by the RENEW Amendment, but not if it would delay implementation of a cluster proposal. The ISO representative summarized the ISO's position on the RENEW Amendment as set forth in its memorandum that was circulated in advance of the meeting.

Responding to concerns raised with the RENEW Amendment, another RENEW representative argued that the FERC might not find the ISO Proposal just and reasonable because of perceived deficiencies without the RENEW Amendment, including the requirement that all cluster members must agree on an alternative to the CETU before one can be adopted, the treatment of late-comer projects, and the lack of integration of the interconnection process with state processes. He argued that the ISO Proposal was contrary to New England's efforts to better integrate markets and public policy, particularly because it failed to require the ISO to analyze competitive transmission alternatives to the CETU offered in state procurement processes. He explained his views that the RENEW Amendment furthered state public policy without unreasonably delaying the interconnection clustering process.

The Committee then voted the RENEW Amendment, which failed with a 39.63% Vote in favor (Generation Sector – 2.34%; Transmission Sector – 3.81%; Supplier Sector – 4.89%; AR Sector – 10.25%; Publicly Owned Entity Sector – 8.56%; and End User Sector – 9.78%). (See Vote 1 on Attachment 2).

Following that vote, the Chairman inquired whether AVANGRID wished to pursue a motion to amend the ISO Proposal similar to the one it had presented during Transmission Committee deliberations. The AVANGRID representative reported that, based on feedback received at and since the Transmission Committee vote, AVANGRID planned to allow more time for stakeholders to consider, and possibly for AVANGRID to modify, its proposal before bringing it to the Participants Committee for an advisory vote. Accordingly, AVANGRID did not seek to amend the ISO Proposal at the meeting.

***Vote on the Interconnection Clustering Revisions***

The Committee then discussed the main motion before a final vote. In response to a question, ISO Counsel reported on plans to file the Interconnection Clustering Revisions in March, with Counsels for ISO, NEPOOL, and the Participating Transmission Owners working together in the meantime on that filing. Representatives from a number of Participants expressed disappointment that the concerns of developers, which would have been addressed by the RENEW Amendment, were not in their view being adequately considered by the ISO. A number of representatives expressed concern particularly with how smaller projects would fare in the clustering process, and the impact on those projects if they were unwilling or unable to participate in a cluster.

The Committee then voted on the main motion to approve the Interconnection Clustering Revisions as proposed by the ISO, and that motion passed with a 95.0% Vote in favor (Generation Sector – 17.12%; Transmission Sector – 17.12%; Supplier Sector – 15.90%; AR Sector – 12.32%; Publicly Owned Entity Sector – 17.12%; and End User Sector – 15.42%). (See Vote 2 on Attachment 2).

**PROPOSAL TO IMPLEMENT A SMALL STANDARD OFFER SUPPLIER SECTOR GROUP SEAT**

At the request of Mr. Kaslow, Mr. Patrick Gerity, NEPOOL Counsel, referred the Committee to the materials circulated in advance of the meeting regarding a proposal to amend



the NEPOOL and Participants Agreements to create a “Small Standard Offer Group Seat” in the Supplier Sector (the Proposal). Mr. Gerity advised the Committee that an alternative proposal was in the works and would be discussed at a February Membership Subcommittee meeting. He encouraged participation in that meeting. In light of those continuing discussions, he indicated that consideration of this matter would be deferred to a later Participants Committee meeting.

### **LITIGATION REPORT**

Mr. Doot referred the Committee to the February 1 Litigation Report that had been circulated and posted in advance of the meeting. He summarized a memorandum that NEPOOL Counsel had circulated concerning the lack of a FERC quorum upon the resignation of Chairman Norman Bay. He reported that the Commission had issued earlier that day the expected delegation order authorizing FERC Staff to take additional actions by delegated authority while the Commission lacked a quorum. He noted that, attached to the memorandum was a list of current New England matters in which NEPOOL was engaged, together with an indication of how each of those matters might be impacted.

Mr. Gerity reported that the Orders 825/827 compliance filing and Dynegy’s pending Section 203 Application were both approved before Chairman Bay resigned. He noted that the challenges to the FCA9 and FCA10 results filing, then pending before the D.C. Circuit, had been consolidated. Mr. Doot reported that an order on the New England Power Generator Association’s Peak Energy Rent (PER) complaint was issued on January 19 and set for settlement contested issues that were not resolved by the order. He said a settlement judge had been designated and the first settlement conference was scheduled for February 16 at FERC headquarters in Washington, D.C.

## COMMITTEE REPORTS

**Reliability Committee.** Mr. Robert Stein reported that the Reliability Committee was scheduled to meet on February 15 to begin reviewing ways to streamline treatment of small resources under the Tariff.

**Transmission Committee.** Mr. José Rotger reported that the Transmission Committee was scheduled to meet on February 21, likely as a teleconference meeting, to review NEPOOL's comments on the FERC's interconnection NOPR and to further discuss AVANGRID's proposal for funding interconnections.

**Budget & Finance Subcommittee.** Mr. Ken Dell Orto reported that the Budget & Finance Subcommittee was scheduled to meet on February 10 to review an ISO proposal to change Financial Assurance requirements for parties with Capacity Supply Obligations before the start of the Capacity Commitment Period (CCP) for FCA8. He advised of the expectation that those proposed changes would be presented for Participants Committee consideration at its March meeting.

**GIS Agreement Working Group.** Mr. David Cavanaugh reported that the GIS Agreement Working Group received a new contract proposal from APX for services and was discussing that with APX. He said the Working Group was continuing discussions with the ISO and other potential providers of the services then provided by APX.

**Markets Committee.** Mr. William Fowler reported that the next Markets Committee meeting was scheduled for February 7 as a one-day meeting. He highlighted key agenda items including a response to FERC's order on offer caps associated with fast-start pricing. He said the Committee also would receive the Internal Market Monitor's quarterly (Fall) markets report and an update on the Dynamic De-List Bid Threshold, and would work on price responsive demand.

Turning to an update on IMAPP, Mr. Fowler, reported that there was a strong consensus among the officers, following feedback from Sector members, to put the IMAPP process on hold for the next several months. He said the February 16 IMAPP meeting would be a short teleconference meeting principally to explain process and expectations for the next several months. Continuing, he said the pause would give the ISO a chance to identify a short-term proposal for presentation in May, and the States more time to hear about, and consider, the various proposals that might be refined based on input received. He reported there would be no IMAPP meeting until May, after the ISO had reviewed its short-term proposal with the Markets Committee. In the meantime, he said that Participants would be welcomed and encouraged to report to NEPOOL at its monthly Participants Committee meetings on any developments or evolution of their proposals. Ms. Heather Hunt, NESCOE Executive Director, expressed support for the planned IMAPP process. She added that the States planned to come back in the same time frame and provide more complete feedback on the longer-term proposals.

#### **OTHER BUSINESS**

Mr. Doot reported that the next Participants Committee meeting, which was scheduled for March 3, 2017, would likely be a teleconference rather than in-person meeting, based on the projected light agenda. He asked that Participants pay attention to notices of that meeting that would be circulated as soon as the decision was made.

There being no further business, the meeting adjourned at 11:25 a.m.

Respectfully submitted,

---

David T. Doot, Secretary

**PARTICIPANTS COMMITTEE MEMBERS AND ALTERNATES  
PARTICIPATING IN  
FEBRUARY 3, 2017 MEETING**

PARTICIPANT NAME	SECTOR/ GROUP	MEMBER NAME	ALTERNATE NAME	PROXY
American PowerNet Management	Supplier			Mary Smith
Anbaric Management LLC	Provisional Group	Steve Conant		
Ashburnham Municipal Light Plant	Publicly Owned		Brian Thomson	
Associated Industries of Massachusetts	End User			Roger Borghesani
AVANGRID (CMP/UI)	Transmission	Eric Stinneford (tel)	Christian Bilcheck (tel)	Paul Dumas (tel)
Belmont Municipal Light Department	Publicly Owned		Tim Hebert	
Boylston Municipal Light Department	Publicly Owned		Brian Thomson	
BP Energy Company	Supplier			Nancy Chafetz
Brookfield Energy Marketing	Supplier	Aleks Mitreski		
Bucksport Generation	Generation			Brett Kruse
Calpine Energy Services, LP	Supplier		Brett Kruse	William Fowler
Chester Municipal Electric Light Department	Publicly Owned	Tim Hebert		
Chicopee Municipal Lighting Plant	Publicly Owned		Brian Thomson	
Citigroup Energy Inc.	Supplier	Barry Trayers (tel)		
CLEAResult Consulting, Inc.	AR	Doug Hurley (tel)		
Competitive Energy Services LLC	Supplier			Glenn Poole (tel)
Concord Municipal Light Plant	Publicly Owned		Tim Hebert	
Connecticut Municipal Electric Energy Coop.	Publicly Owned	Brian Forshaw		
Connecticut Office of Consumer Counsel	End User			David Thompson
Conservation Law Foundation	End User	Jerry Elmer		
Consolidated Edison Energy, Inc.	Supplier	Jeff Dannels		
Covanta Haverhill Associates, LP	AR			Brett Kruse
CPV Towantic, LLC	Generation	Dan Pierpont		
Cross-Sound Cable	Supplier		Jose Rotger	
Danvers Electric Division	Publicly Owned		Tim Hebert	
Direct Energy Business, LLC	Supplier			Nancy Chafetz
Dominion Energy Marketing, Inc.	Generation	Jim Davis		
DTE Energy Trading, Inc.	Supplier			Nancy Chafetz
Dynergy Marketing and Trade, LLC	Supplier			William Fowler
Elektrisola, Inc.	End User		Gus Fromuth	
Emera Maine/Emera Energy Services	Transmission		Sandi Hennequin	Stacy Dimou Lisa Martin (tel) Lee Thomson
Entergy Nuclear Power Marketing, LLC	Generation	Ken Dell Orto		William Fowler
EnerNOC, Inc.	AR			Doug Hurley (tel)
Essential Power, LLC	Generation	Lisa Krueger	William Fowler	
Eversource Energy	Transmission	James Daly	Cal Bowie	
Exelon Generation Company	Supplier	Steve Kirk	William Fowler	
Fairchild Semiconductor Corporation	End User	Gus Fromuth		
Farhad Aminpour	End User		Roland Scott	
FirstLight Power Resources Management, LLC	Generation	Tom Kaslow		
Galt Power, Inc.	Supplier	Nancy Chafetz		
GDF SUEZ Energy Marketing NA, Inc.	Generation			Tom Kaslow
Generation Group Member	Generation		Abby Krich	Bob Stein
Georgetown Municipal Light Department	Publicly Owned		Tim Hebert	
Groton Electric Light Department	Publicly Owned		Brian Thomson	
Groveland Electric Light Department	Publicly Owned		Tim Hebert	
H.Q. Energy Services (U.S.) Inc.	Supplier	Louis Guilbault	Bob Stein	Abby Krich
Harvard Dedicated Energy Limited	End User	Mary Smith		Paul Peterson Doug Hurley (tel)
High Liner Foods (USA) Incorporated	End User		William P. Short III	
Hingham Municipal Lighting Plant	Publicly Owned		Tim Hebert	

**PARTICIPANTS COMMITTEE MEMBERS AND ALTERNATES  
PARTICIPATING IN  
FEBRUARY 3, 2017 MEETING**

PARTICIPANT NAME	SECTOR/ GROUP	MEMBER NAME	ALTERNATE NAME	PROXY
Holden Municipal Light Department	Publicly Owned		Brian Thomson	
Hull Municipal Lighting Plant	Publicly Owned		Brian Thomson	
Invenergy Energy Management LLC	Generation			Brett Kruse
Ipswich Municipal Light Department	Publicly Owned		Brian Thomson	
Jericho Power, LLC	AR			Thomas Hoatson
Kleen Energy Systems, LLC	Generation			Brett Kruse
Large Renewable Generation Group Member	AR			Francis Pullaro
Long Island Lighting Company (LIPA)	Supplier		Bill Killgoar	
Littleton (MA) Electric Light & Water Department	Publicly Owned		Tim Hebert	
Littleton (NH) Water & Light Department	Publicly Owned	Craig Kieny (tel)		
Maine Power, LLC	Supplier	Jeff Jones (tel)		
Maine Public Advocate Office	End User			Paul Peterson
Mansfield Municipal Electric Department	Publicly Owned		Brian Thomson	
Marblehead Municipal Light Department	Publicly Owned		Brian Thomson	
Marble River, LLC	Supplier		John Brodbeck	
Massachusetts Attorney General's Office (MA AG)	End User		Christina Belew (tel)	
Mass. Development Finance Agency	Publicly Owned		Tim Hebert	
Mass. Municipal Wholesale Electric Company (MMWEC)	Publicly Owned		Brian Thomson	
Mercuria Energy America, Inc.	Supplier			Nancy Chafetz
Merrimac Municipal Light Department	Publicly Owned		Tim Hebert	
Middleborough Gas and Electric Department	Publicly Owned		Brian Thomson	
Middleton Municipal Electric Department	Publicly Owned		Tim Hebert	
National Grid	Transmission	Timothy Brennan	Timothy Martin	
New Hampshire Electric Cooperative (NHEC)	Publicly Owned	Steve Kaminski		Brian Forshaw
New Hampshire Office of Consumer Advocate (NH OCA)	End User	Paul Peterson		
NextEra Energy Resources, LLC	Generation	Michelle Gardner		
NRG Power Marketing LLC	Generation	Dave Cavanaugh		
Pascoag Utility District	Publicly Owned		Tim Hebert	
Paxton Municipal Light Department	Publicly Owned		Brian Thomson	
Peabody Municipal Light Plant	Publicly Owned		Brian Thomson	
Princeton Municipal Light Department	Publicly Owned		Brian Thomson	
PSEG Energy Resources & Trade LLC	Supplier	Joel Gordon		
Reading Municipal Light Department	Publicly Owned			Brian Forshaw
Repsol Energy North America Company	Supplier		Nancy Chafetz	
Rowley Municipal Lighting Plant	Publicly Owned		Tim Hebert	
Russell Municipal Light Department	Publicly Owned		Brian Thomson	
Shipyard Brewing Co., LLC	End User	Gus Fromuth		
Shrewsbury Electric & Cable Operations	Publicly Owned		Brian Thomson	
Small Load Response Group Member	AR	Doug Hurley (tel)	Brad Swalwell (tel)	
Small Renewable Generation Group	AR	Erik Abend (tel)		
South Hadley Electric Light Department	Publicly Owned		Brian Thomson	
St. Anselm College	End User	Gus Fromuth		
Sterling Municipal Electric Light Department	Publicly Owned		Brian Thomson	
Stored Solar J&WE, LLC	AR			Brett Kruse
Stowe Electric Department	Publicly Owned		Tim Hebert	
SunEdison companies	AR	John Keene		Bob Stein, Abby Krich
SWEB Development USA, LLC	AR			Abby Krich
Talen Energy Marketing, LLC	Supplier	Tom Hyzinski (tel)		
Taunton Municipal Light Department	Publicly Owned		Tim Hebert	
Templeton Municipal Lighting Plant	Publicly Owned		Brian Thomson	
Terra Nova (Blue Sky West LLC)	AR			Abby Krich

**PARTICIPANTS COMMITTEE MEMBERS AND ALTERNATES  
PARTICIPATING IN  
FEBRUARY 3, 2017 MEETING**

<b>PARTICIPANT NAME</b>	<b>SECTOR/ GROUP</b>	<b>MEMBER NAME</b>	<b>ALTERNATE NAME</b>	<b>PROXY</b>
The Energy Consortium	End User	Roger Borghesani	Mary Smith	Paul Peterson Doug Hurley (tel)
Union of Concerned Scientists (UCS)	End User		Francis Pullaro	
Utility Services Inc.	End User			Paul Peterson
Vermont Electric Cooperative	Publicly Owned	Craig Kiemy (tel)		
Vermont Electric Power Company	Transmission	Frank Ettori		
Vermont Energy Investment Corporation	AR		Doug Hurley	
Vermont Public Power Supply Authority	Publicly Owned		Brian Callnan	
Verso Maine Energy LLC	Generation	Glenn Poole (tel)		Brett Kruse
Vitol Inc.	Supplier	Joe Wadsworth (tel)		
Wakefield Municipal Gas and Light Department	Publicly Owned		Brian Thomson	
Wallingford DPU Electric Division	Publicly Owned	Tim Hebert		
Wellesley Municipal Light Plant	Publicly Owned		Tim Hebert	
West Boylston Municipal Lighting Plant	Publicly Owned		Brian Thomson	
Westfield Gas & Electric Light Department	Publicly Owned		Tim Hebert	
Wheelabrator North Andover Inc.	AR	William Fowler		
Z-TECH, LLC	End User		Gus Fromuth	

VOTES TAKEN AT  
FEBRUARY 3, 2017 NEPOOL PARTICIPANTS COMMITTEE MEETING

**TOTAL**

Sector/Group	Vote 1	Vote 2
GENERATION	2.34	17.12
TRANSMISSION	3.81	17.12
SUPPLIER	4.89	15.90
ALTERNATIVE RESOURCES	10.25	12.32
PUBLICLY OWNED ENTITY	8.56	17.12
END USER	9.78	15.42
<b>% IN FAVOR</b>	<b>39.63</b>	<b>95.00</b>

**GENERATION SECTOR**

Participant Name	Vote 1	Vote 2
Bucksport Generation	O	A
CPV Towantic, LLC	O	A
Dominion Energy Marketing	O	F
Entergy Nuclear Power Marketing	A	A
Essential Power, LLC	O	F
FirstLight Power Resources	O	F
GDF SUEZ Energy Marketing NA	O	F
Generation Group Member	0.5	A
Kleen Energy Systems, LLC	O	A
NextEra Energy Resources, LLC	F	A
NRG Power Marketing, LLC	O	F
Verso Maine Energy LLC	O	F
IN FAVOR (F)	1.5	6
OPPOSED (O)	9.5	0
TOTAL VOTES	11	6
ABSTENTIONS (A)	1	6

**TRANSMISSION SECTOR**

Participant Name	Vote 1	Vote 2
AVANGRID (CMP/UI)	F	F
Emera Maine	S <sup>1</sup>	S <sup>1</sup>
<i>Emera Maine</i>	A	F
<i>Emera Energy Services Subsidiaries</i>	O	F
Eversource Energy	O	F
National Grid	O	F
Vermont Electric Power Co.	O	F
IN FAVOR (F)	1.0	5
OPPOSED	3.5	0
TOTAL VOTES	4.5	5
ABSTENTIONS (A)	0.5	0

<sup>1</sup> Pursuant to Section 6.2 of the NEPOOL Agreement, Participants and their Related Persons are for voting purposes together permitted to join only one Sector to which any of them is eligible to join, but are permitted to split the vote in that Sector as they see fit. Emera Maine and the Emera Energy Services Subsidiaries, as Related Persons, are collectively members of the Transmission Sector, but sometimes split their vote evenly between the companies' transmission (Emera Maine) and generation (Emera Energy) interests.

**ALTERNATIVE RESOURCES SECTOR**

Participant Name	Vote 1	Vote 2
<b>Renewable Generation Sub-Sector</b>		
Jericho Power LLC	O	F
Large RG Group Member	F	A
Small RG Group Member	O	F
Stored Solar J&WE, LLC	O	A
SunEdison (First Wind)	F	O
SWEB Development USA, LLC	F	A
Terra Nova	F	A
Wheelabrator North Andover Inc.	O	F
<b>Distributed Generation Sub-Sector</b>		
CLEAResult Consulting, Inc.	F	F
<b>Load Response Sub-Sector</b>		
EnerNOC, Inc.	A	A
Small LR Group Member	F	F
VT Energy Investment Corp.	F	F
IN FAVOR (F)	7	6
OPPOSED	4	1
TOTAL VOTES	11	7
ABSTENTIONS (A)	1	5

**SUPPLIER SECTOR**

Participant Name	Vote 1	Vote 2
American PowerNet Management	F	F
BP Energy Company	O	F
Brookfield Energy Marketing Inc.	A	A
Calpine Energy Services	O	F
Citigroup Energy Inc.	O	--
Consolidated Edison Energy, Inc.	A	A
Cross-Sound Cable Company	A	F
Direct Energy Business, LLC	O	F
DTE Energy Trading, Inc.	O	F
Dynegy Marketing and Trade, LLC	O	F
Exelon Generation Company	A	A
Galt Power, Inc.	O	F
H.Q. Energy Services (U.S.) Inc.	F	F
Long Island Power Authority (LIPA)	A	A
Maine Power, LLC	F	F
Marble River, LLC	F	O
Mercuria Energy America, Inc.	A	A
PSEG Energy Resources & Trade	O	F
Repsol Energy North America	O	F
Talen Energy Marketing, LLC	O	F
Vitol Inc.	A	A
IN FAVOR (F)	4	13
OPPOSED	10	1
TOTAL VOTES	14	14
ABSTENTIONS (A)	7	6

**VOTES TAKEN AT  
FEBRUARY 3, 2017 NEPOOL PARTICIPANTS COMMITTEE MEETING**

**END USER SECTOR**

Participant Name	Vote 1	Vote 2
Associated Industries of Mass.	F	F
Conn. Office of Consumer Counsel	F	F
Conservation Law Foundation	F	F
Elektrisola, Inc.	O	A
Fairchild Semiconductor Corporation	O	A
Harvard Dedicated Energy Limited	F	F
High Liner Foods (USA) Inc.	O	A
Maine Public Advocate Office	A	F
Mass. Attorney General's Office	A	F
NH Office of Consumer Advocate	F	F
Shipyards Brewing Co., LLC	O	A
St. Anselm College	O	A
The Energy Consortium	F	F
Union of Concerned Scientists	F	O
Utility Services Inc.	F	F
Z-TECH, LLC	O	A
IN FAVOR (F)	8	9
OPPOSED	6	1
TOTAL VOTES	14	10
ABSTENTIONS (A)	2	6

**PUBLICLY OWNED ENTITY SECTOR**

Participant Name	Vote 1	Vote 2
Ashburnham Municipal Light Plant	A	A
Belmont Municipal Light Dep't	A	F
Boylston Municipal Light Dep't	A	A
Chester Municipal Light Dep't	A	F
Chicopee Municipal Lighting Plant	A	A
Concord Municipal Light Plant	A	F
Conn. Mun. Electric Energy Coop.	O	F
Danvers Electric Division	A	F
Georgetown Municipal Light Dep't	A	F
Groton Electric Light Department	A	A
Groveland Electric Light Dep't	A	F
Hingham Municipal Lighting Plant	A	F
Holden Municipal Light Dep't	A	A
Holyoke Gas & Electric Dep't	A	A
Hull Municipal Lighting Plant	A	A
Ipswich Municipal Light Dep't	A	A
Littleton (MA) Electric Light Dep't	A	F
Littleton (NH) Water & Light Dep't	A	A
Mansfield Municipal Electric Dep't	A	A
Marblehead Municipal Light Dep't	A	A
Mass. Development Finance Agc'y	A	F
Mass. Mun. Wholesale. Elec. Co.	A	A
Merrimac Municipal Light Dep't	A	F
Middleborough Gas & Elec. Dep't	A	A

**PUBLICLY OWNED ENTITY SECTOR cont'd**

Participant Name	Vote 1	Vote 2
Middleton Municipal Electric Dep't	A	F
New Hampshire Electric Coop.	A	F
Pascoag Utility District	A	F
Paxton Municipal Light Dep't	A	A
Peabody Municipal Light Plant	A	A
Princeton Municipal Light Dep't	A	A
Rowley Municipal Lighting Plant	A	F
Russell Municipal Light Dep't	A	A
Shrewsbury's Elec. & Cable Ops.	A	A
South Hadley Electric Light Dep't	A	A
Sterling Mun. Elec. Light Dep't	A	A
Stowe (VT) Electric Department	A	F
Taunton Municipal Lighting Plant	A	F
Templeton Mun. Lighting Plant	A	A
Vermont Electric Cooperative	F	F
VT Public Power Supply Authority	A	F
Wakefield Mun. Gas & Light Dep't	A	A
Wallingford (CT) Div. Pub. Utils.	A	F
Wellesley Municipal Light Plant	A	F
West Boylston Mun. Lighting Plant	A	A
Westfield Gas & Elec. Light Dep't	A	F
IN FAVOR (F)	1	22
OPPOSED	1	0
TOTAL VOTES	2	22
ABSTENTIONS (A)	43	23