

## **FINAL**

Pursuant to notice duly given, a meeting of the NEPOOL Participants Committee was held beginning at 2:00 p.m. on Wednesday, November 3, 2021, following meetings between each of the Sectors and ISO Board members. 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 participated in the meeting, either in person or by phone.

Mr. David Cavanaugh, Chair, presided, and Mr. David Doot, Secretary, recorded.

### **APPROVAL OF OCTOBER 7, 2021 MEETING MINUTES**

Mr. Cavanaugh referred the Committee to the preliminary minutes of the October 7, 2021 meeting, as circulated and posted in advance of the meeting. Following motion duly made and seconded, the preliminary minutes of that meeting were unanimously approved as circulated.

### **CONSENT AGENDA**

Mr. Cavanaugh referred the Committee to the Consent Agenda that was circulated and posted in advance of the meeting. Following motion duly made and seconded, the Consent Agenda was approved as circulated, with oppositions noted by Calpine, Cross-Sound Cable (CSC) and LIPA, and abstentions noted by FirstLight, Great River Hydro, Nautilus, and Wheelabrator. The representatives for CSC and LIPA noted that their opposition related to Consent Agenda Items 1 and 2 (HQICC Values and Installed Capacity Requirement (ICR) and Related Values for the 2022-23 3rd Annual Reconfiguration Auction (ARA), 2023-24 2nd ARA, and 2024-2 1st ARA) (together the ARA Values) because of their previously conveyed positions that those values do not properly account for the reliability benefits and capacity import capability of the Cross-Sound Cable. The representative for Great River Hydro, Nautilus and

Wheelabrator, as well as the FirstLight representative, explained that those Participants abstained because the ARA Values included tie benefits in the calculation of capacity requirements recommended by the Reliability Committee. Echoing those same concerns, the Calpine representative explained that Calpine's opposition was related to the use of tie benefits (or any non-firm, non-committed external capacity) in the determination of ICR values.

## **ISO CEO REPORT**

Mr. Gordon van Welie, ISO Chief Executive Officer (CEO), shared with the Committee the recent announcement of the vaccination requirement for all ISO employees by December 31, 2021 and a January 4, 2022 date for a return to the office in a hybrid fashion.

## **ISO COO REPORT**

### ***Operations Highlights***

Dr. Vamsi Chadalavada, ISO Chief Operating Officer (COO), began by referring the Committee to his November report, which had been circulated and posted in advance of the meeting. Dr. Chadalavada noted that the data in the report was through October 26, 2021, unless otherwise noted. The report highlighted: (i) Energy Market value for October 2021 was \$469 million, down \$42 million from the updated September 2021 value of \$511 million and up \$231 million from October 2020; (ii) October 2021 average natural gas prices were 5.5% higher than September average prices; (iii) average Real-Time Hub Locational Marginal Prices (LMPs) for October (\$55.08/MWh) were 18% higher than September averages; (iv) average October 2021 natural gas prices and Real-Time Hub LMPs over the period were up 139% and 105%, respectively, from October 2020 average prices; (v) average Day-Ahead cleared physical energy during peak hours as percent of forecasted load was 99.9% during September (up from the 99.8% reported for September), with the minimum value for the month of 95.9% on October 26;

and (vi) Daily Net Commitment Period Compensation (NCPC) payments for October totaled \$3.1 million, which was up \$1.7 million from September 2021 and up \$0.3 million from October 2020. October NCPC payments, which were 0.7% of total Energy Market value, were comprised of \$2.4 million in first contingency payments (up \$1 million from September 2021) and \$0.7 million in second contingency payments, with no voltage or distribution payments for the month.

Dr. Chadalavada noted that transmission outages for the replacement of structures would occur on line 312/393 from Northfield to Alps from November 14 to 24 and again from November 29 to December 18, 2021. Those outages would reduce imports to and exports from New York by 700 MW. Additionally, transmission line 365, from Auburn to North Cambridge, Massachusetts, would be out from November 7 to December 18. He then reported on an October 26-27 Nor'easter that resulted in 12 transmission line trips, which were restored within 24 to 48 hours, and affected approximately 600,000 customers. In response to questions, he reported that no emergency procedures or out-of-market actions were required in response to the storm. Master/Local Control Center Procedure No. 2 was declared on October 26 at 1:00 p.m. and cancelled on October 28 at approximately 4:00 p.m. Generation resources were minimally impacted and actual loads were below peak load projections.

#### ***New England Winter Outlook 2021/2022***

Turning to the New England winter outlook, Dr. Chadalavada noted that, based on data available at that point, including an expected “La Niña” effect, there was a 40-50% probability that temperatures would be above normal during December through February for all of New England. While there was an equal chance for above or below average precipitation, he reminded the Committee that above average precipitation would likely result in short term

reductions in solar photovoltaic (PV) output of approximately 30% before snow could be cleared from the panels and PV installations restored to their full output.

In response to a question about the load forecast comparison from last winter to the upcoming winter, Dr. Chadalavada noted that, based on experiences during the pandemic in which demand was 2-3% higher than historic levels during times of extreme heat or cold, the ISO would be prepared for a similarly higher (2-3%) energy demand if temperatures were lower and more extreme than expected. Discussing oil inventories for the winter, he explained that oil could be delivered into New England in three ways: via barge, pipeline and truck. Delivery by pipeline would provide more reliable supply during the winter compared to delivery by barge or truck. The ISO was in constant communication with those asset owners relying on oil inventories to ensure uninterrupted service. He reported further that New England had 73 generating stations, with approximately 12,800 MW of combined capability, that use oil as a primary or alternate fuel. He noted that 70% of those MW use distillate fuel (or light oil), but account for only 31% of the tankage. Two-thirds of the region's tankage was associated with the smaller percentage using heavy oil, spread over a few sites that have a large amount of storage.

Dr. Chadalavada then discussed the high level winter assessment report which predicted how the system might perform (1) if winter 2021/22 were similar to the mild 2020/21 winter, (2) if winter 2021/22 were similar to winter 2017/18 when, despite milder than normal temperatures overall, there was a stretch of cold weather with two weeks' of temperatures well (10 degrees) below normal, with significant disruptions in natural gas availability, high oil usage and several units postured to maintain reserves, and (3) if winter 2021/22 were similar to winter 2013/14, when there was an extended and extreme cold snap in New England, highlighted by a polar vortex event. He noted that the region could experience periodic rolling blackouts during

extreme weather should there not be LNG deliveries that could be counted on; however, with adequate fuel replenishment, the system could be operated reliably without the need for emergency procedures. He assured members that the ISO was reaching out to resource owners to more completely understand the supply situation. He further confirmed in response to a question that the ISO assumed in its predictive modeling that it continued successfully to implement OP-21 to optimize the fuel situation in the region.

### *Operational Impact of Extreme Weather Events*

Dr. Chadalavada then discussed the extreme weather assessment project, which would be worked on with the Electric Power Research Institute (EPRI), as a result of the extreme events in Texas and California, and would leverage the ongoing “Resource Adequacy for a Decarbonized Future.” He indicated that this project was expected to take 15-18 months and would continue through the end of 2022 and into early 2023. The results, which would allow the ISO to prepare appropriately for extreme weather events, was expected to show the risks associated with such conditions.

### **PARTICIPANT-SPONSORED PROPOSAL TO REVISE SCHEDULE 11 OF SECTION II OF THE ISO TARIFF**

Ms. Emily Laine, Reliability Committee Chair, referred the Committee to the materials circulated and posted in advance of the meeting related to the proposal from NextEra on behalf of RENEW Northeast to revise Schedule 11 of Section II of the ISO’s Transmission, Markets and Services Tariff. The proposal would revise Schedule 11 so that annual costs associated with Distribution Upgrades, Stand Alone Network Upgrades and Network Upgrades would no longer be allocated to Interconnection Customers, but instead would be recovered from Transmission Customers. She reported that the Transmission Committee had considered a motion to recommend Participants Committee approval and that motion had failed.

At the request of the Chair, NEPOOL counsel explained that, under these circumstances, proponents of the proposal were not required to seek Participants Committee action in order to confirm that the Participants Committee did not support the proposal. However, the proponent, or any other interested member, could seek a Participants Committee vote if desired. The NextEra representative indicated NextEra did not see the need for a Participants Committee vote under the circumstances and the Chair confirmed that no other member sought a vote.

### **LITIGATION REPORT**

Mr. Doot referred the Committee to the November 2 Litigation Report that had been circulated and posted the morning of the meeting. He highlighted the following:

- (i) The ISO and NESCOE budgets were submitted to FERC in mid-October.

Comments on those filing were due the following day and orders on those filings were expected before the end of the year;

- (ii) Many comments had been filed recently in response to the FERC's Advanced Notice of Proposed Rulemaking (ANOPR) on transmission planning and allocation and generator interconnection issues. Reply comments were due November 30. The FERC planned to hold a technical conference on this issue on November 15;

(iii) The FERC investigation into Section I.3.10 and Schedule 25 to the Tariff had upcoming deadlines to note: the ISO filing required by the FERC's order was due the following Monday, November 8, and, based on the expected ISO filing, comments in response would be due within 60 days of that submission;

(iv) Oral arguments were held October 21 before the U.S. Court of Appeals for the D.C. Circuit (DC Circuit) on the appeal of the FERC's order approving the ISO's Inventoried Energy Program (IEP) filing. A decision of the Court would follow in due course; and

(v) The candidacy of DC Public Service Commissioner Willie Phillips to fill the fifth and still empty seat on the FERC continued, with the Senate Energy and Natural Resources Committee unanimously recommending him to the full Senate for final approval.

## **COMMITTEE REPORTS**

***Markets Committee (MC)***. Mr. William Fowler, the MC Vice-Chair, reported that the next MC meeting would take place on November 9-10 and was expected to take place virtually given the low number of persons that had registered to attend in person. The November 9-10 meeting would focus on the External Market Monitor's report, expected to be released shortly, on suggested changes to the Cost of New Entry in connection with removal of the Minimum Offer Price Rule.

***Reliability Committee (RC)***. Mr. Robert Stein, the RC Vice-Chair, reported that the next regularly-scheduled RC meeting, November 16, would likely be held virtually.

***Transmission Committee (TC)***. Mr. José Rotger, the TC Vice-Chair, reported that the scheduled November 19 TC meeting would take place virtually and would include a vote on the Attachment K changes that would allow the ISO to perform Longer-Term Transmission Studies.

*Budget & Finance Subcommittee.* Mr. Kaslow reported that the next B&F Subcommittee meeting was scheduled for November 29, and would include a review of the 2022 NEPOOL Budget. He reminded members whose Participants had in place a letter of credit (LOC) to satisfy their additional financial assurance requirements to be sure to provide to the ISO an updated, conforming LOC on before December 31, 2021.

#### **ADMINISTRATIVE MATTERS**

Mr. Doot reported that the Participants Committee Annual Meeting would take place on December 2 at the Colonnade. He noted that FERC Commissioner Allison Clements had been invited and indicated she would attend. He further reminded the Committee that the election of Committee officers would take place at that meeting, as well as circulation of the 2021 annual report.

Lastly, Mr. Cavanaugh reminded Participants of the Future Grid Pathways meeting planned for December 6 at a location yet to be determined.

There being no other business, the meeting adjourned at 3:35 p.m.

Respectfully submitted,

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David Doot, Secretary



**PARTICIPANTS COMMITTEE MEMBERS AND ALTERNATES  
PARTICIPATING IN THE NOVEMBER 3, 2021 MEETING**

PARTICIPANT NAME	SECTOR/ GROUP	MEMBER NAME	ALTERNATE NAME	PROXY
Acadia Center	End User	Melissa Birchard (tel)		
American Petroleum Institute	Fuels Industry Participant	Paul Powers (tel)		
AR Large Renewable Generation (RG) Group Member	AR-RG	Alex Worsley		
Ashburnham Municipal Light Plant	Publicly Owned Entity		Brian Thomson	
Associated Industries of Massachusetts (AIM)	End User			Mary Smith (tel)
AVANGRID: CMP/UI	Transmission	Alan Trotta	Jason Rauch (tel)	
Bath Iron Works Corporation	End User			William P. Short III
Belmont Municipal Light Department	Publicly Owned Entity		Dave Cavanaugh	
Block Island Utility District	Publicly Owned Entity	Dave Cavanaugh		
Borrego Solar Systems Inc.	AR-DG	Liz Delaney		
Boylston Municipal Light Department	Publicly Owned Entity		Brian Thomson	
BP Energy Company	Supplier			José Rotger
Braintree Electric Light Department	Publicly Owned Entity			Dave Cavanaugh
Brookfield Renewable Trading and Marketing	Supplier	Aleks Mitreski		
Calpine Energy Services, LP	Supplier	Brett Kruse		Bill Fowler; John Flumerfelt
Castleton Commodities Merchant Trading	Supplier			Bob Stein (tel)
Central Rivers Power	AR-RG	Kevin Telford	Dan Allegretti	
Chester Municipal Light Department	Publicly Owned Entity		Dave Cavanaugh	
Chicopee Municipal Lighting Plant	Publicly Owned Entity		Brian Thomson	
Concord Municipal Light Plant	Publicly Owned Entity		Dave Cavanaugh	
Connecticut Municipal Electric Energy Coop.	Publicly Owned Entity	Brian Forshaw (tel)		
Connecticut Office of Consumer Counsel (CT OCC)	End User		Dave Thompson (tel)	
Conservation Law Foundation (CLF)	End User	Phelps Turner (tel)		
Cross-Sound Cable Company (CSC)	Supplier		José Rotger	
Danvers Electric Division	Publicly Owned Entity		Dave Cavanaugh	
Dick Brooks	End User	Dick Brooks	JoAnn Brooks	
Dominion Energy Generation Marketing	Generation	Mike Purdie (tel)		
DTE Energy Trading, Inc.	Supplier			José Rotger
Durgin and Crowell Lumber Co., Inc.	End User			William P. Short III
Dynergy Marketing and Trade, LLC	Supplier	Andy Weinstein		Arnie Quinn; Bill Fowler
Elektrisola, Inc.	End User			William P. Short III
Emera Energy Services	Supplier			Bill Fowler
Enel X North America, Inc.	AR-LR	Michael Macrae		
ENGIE Energy Marketing NA, Inc.	AR-RG	Sarah Bresolin		
Environmental Defense Fund	End User	Jolette Westbrook (tel)		
Eversource Energy	Transmission	James Daly	Dave Burnham	Vandan Divatia
Exelon Generation Company	Supplier	Steve Kirk	Bill Fowler	
FirstLight Power Management, LLC	Generation	Tom Kaslow		
Galt Power, Inc.	Supplier	José Rotger		
Generation Group Member	Generation		Abby Krich	
Georgetown Municipal Light Department	Publicly Owned Entity		Dave Cavanaugh	
Great River Hydro	AR-RG			Bill Fowler
Groton Electric Light Department	Publicly Owned Entity		Brian Thomson	
Groveland Electric Light Department	Publicly Owned Entity		Dave Cavanaugh	
H.Q. Energy Services (U.S.) Inc. (HQUS)	Supplier		Bob Stein (tel)	
Harvard Dedicated Energy Limited	End User	Joyceline Chow (tel)		
High Liner Foods (USA) Incorporated	End User		William P. Short III	
Hingham Municipal Lighting Plant	Publicly Owned Entity		Dave Cavanaugh	

**PARTICIPANTS COMMITTEE MEMBERS AND ALTERNATES  
PARTICIPATING IN THE NOVEMBER 3, 2021 MEETING**

PARTICIPANT NAME	SECTOR/ GROUP	MEMBER NAME	ALTERNATE NAME	PROXY
Holden Municipal Light Department	Publicly Owned Entity		Brian Thomson	
Holyoke Gas & Electric Department	Publicly Owned Entity		Brian Thomson	
Hull Municipal Lighting Plant	Publicly Owned Entity		Brian Thomson	
Ipswich Municipal Light Department	Publicly Owned Entity		Brian Thomson	
Jericho Power LLC (Jericho)	AR-RG	Mark Spencer	Nancy Chafetz	Marji Philips
King Forest Industries, Inc.	End User			William P. Short III
Littleton (MA) Electric Light and Water Department	Publicly Owned Entity		Dave Cavanaugh	
Long Island Power Authority (LIPA)	Supplier	Bill Kilgoar (tel)		
Maine Power LLC	Supplier	Jeff Jones (tel)		
Maine Public Advocate's Office	End User	Drew Landry (tel)		Erin Camp (tel)
Mansfield Municipal Electric Department	Publicly Owned Entity		Brian Thomson	
Maple Energy LLC	AR-LR			Doug Hurley
Marblehead Municipal Light Department	Publicly Owned Entity		Brian Thomson	
Mass. Attorney General's Office (MA AG)	End User	Tina Belew		
Mass. Bay Transportation Authority	Publicly Owned Entity		Dave Cavanaugh	
Mass. Municipal Wholesale Electric Company	Publicly Owned Entity	Brian Thomson		
Mercuria Energy America, LLC	Supplier			José Rotger
Merrimac Municipal Light Department	Publicly Owned Entity		Dave Cavanaugh	
Middleborough Gas & Electric Department	Publicly Owned Entity		Dave Cavanaugh	
Middleton Municipal Electric Department	Publicly Owned Entity		Dave Cavanaugh	
Moore Company	End User			William P. Short III
National Grid	Transmission	Tim Brennan (tel)	Tim Martin	
Natural Resources Defense Council	End User	Bruce Ho (tel)		
Nautilus Power, LLC	Generation	Dan Pierpont	Bill Fowler	
New Hampshire Electric Cooperative	Publicly Owned Entity	Steve Kaminski		Brian Forshaw (tel); Dave Cavanaugh; Brian Thomson
New Hampshire Office of Consumer Advocate	End User	Don Kries	Erin Camp (tel)	
New England Power Generators Assoc. (NEPGA)	Fuels Industry Participant	Bruce Anderson	Dan Dolan	
NextEra Energy Resources, LLC	Generation	Michelle Gardner		
North Attleborough Electric Department	Publicly Owned Entity		Dave Cavanaugh	
Norwood Municipal Light Department	Publicly Owned Entity		Dave Cavanaugh	
NRG Power Marketing LLC	Generation		Pete Fuller	
Nylon Corporation of America (L)	End User			William P. Short III
Pascoag Utility District	Publicly Owned Entity		Dave Cavanaugh	
Paxton Municipal Light Department	Publicly Owned Entity		Brian Thomson	
Peabody Municipal Light Department	Publicly Owned Entity		Brian Thomson	
PNE Energy Supply	Supplier			William P. Short III
PowerOptions, Inc.	End User	Heather Tackle		
Princeton Municipal Light Department	Publicly Owned Entity		Brian Thomson	
Reading Municipal Light Department	Publicly Owned Entity		Dave Cavanaugh	
Rowley Municipal Lighting Plant	Publicly Owned Entity		Dave Cavanaugh	
Russell Municipal Light Dept.	Publicly Owned Entity		Brian Thomson	
Saint Anselm College	End User			William P. Short III
Shrewsbury Electric & Cable Operations	Publicly Owned Entity		Brian Thomson	
Small RG Group Member	AR-RG	Erik Abend (tel)		
South Hadley Electric Light Department	Publicly Owned Entity		Brian Thomson	
Sterling Municipal Electric Light Department	Publicly Owned Entity		Brian Thomson	
Stowe Electric Department	Publicly Owned Entity		Dave Cavanaugh	
Sunrun Inc.	AR-DG			Peter Fuller
Taunton Municipal Lighting Plant	Publicly Owned Entity		Dave Cavanaugh	

**PARTICIPANTS COMMITTEE MEMBERS AND ALTERNATES  
PARTICIPATING IN THE NOVEMBER 3, 2021 MEETING**

<b>PARTICIPANT NAME</b>	<b>SECTOR/ GROUP</b>	<b>MEMBER NAME</b>	<b>ALTERNATE NAME</b>	<b>PROXY</b>
Templeton Municipal Lighting Plant	Publicly Owned Entity		Brian Thomson	
The Energy Consortium	End User	Bob Espindola (tel)	Mary Smith (tel)	
Vermont Electric Power Company (VELCO)	Transmission	Frank Etori		
Vermont Energy Investment Corp (VEIC)	AR-LR		Doug Hurley	
Vermont Public Power Supply Authority	Publicly Owned Entity			Brian Forshaw (tel)
Versant Power	Transmission	Lisa Martin (tel)		
Village of Hyde Park (VT) Electric Department	Publicly Owned Entity		Dave Cavanaugh	
Vitol Inc.	Supplier	Joe Wadsworth (tel)		
Wakefield Municipal Gas & Light Department	Publicly Owned Entity		Brian Thomson	
Wallingford DPU Electric Division	Publicly Owned Entity		Dave Cavanaugh	
Wellesley Municipal Light Plant	Publicly Owned Entity		Dave Cavanaugh	
West Boylston Municipal Lighting Plant	Publicly Owned Entity		Brian Thomson	
Westfield Gas & Electric Department	Publicly Owned Entity		Dave Cavanaugh	
Wheelabrator North Andover Inc.	AR-RG		Bill Fowler	
Z-TECH, LLC	End User			William P. Short III