

**AGENDA  
NEPOOL RELIABILITY COMMITTEE MEETING  
TUESDAY, MAY 16, 2023**

**Location:** DoubleTree Hotel, Westborough, MA

**Call-in Number:** 1-866-640-8091 / Access Code: 6615363

**WebEx:** <https://iso-newengland.webex.com/webappng/sites/iso-newengland/meeting/home>

**WebEx Password:** nepool

**TUESDAY, MAY 16**

	<b>Description</b>	<b>Time Allotted</b>
1.0	CHAIR’S OPENING REMARKS	9:30 – 9:45
	Working Group and Project Updates	
	<ul style="list-style-type: none"> <li>• Economic Planning for the Clean Energy Transition (EPCET) Pilot Study – Stakeholder-Requested Scenario: Future Grid Reliability Study Phase 2 – Patrick Boughan</li> </ul>	
2.0*	<b>MEETING MINUTES (66.67% VOTE)</b>	9:45 – 9:50
	<ul style="list-style-type: none"> <li>• April 18-19, 2023 RC Meeting</li> </ul>	
3.0*	RELIABILITY COMMITTEE CONSENT AGENDA (Notification)	9:50 – 9:55
	Review and concurrence of Generator and Transmission Applications that require Level 0 or I treatment.	
	(Consent Agenda, Level 0/I Applications)	
3.1	DISCUSSION OF ANY ADDITIONAL PROJECTS PULLED FROM THE CONSENT AGENDA	9:55 – 10:00
4.0	PROPOSED PLAN APPLICATIONS (PPAs) Level II/III Present Proposed Plan Applications for Committee action on advisory recommendations for ISO-NE approval.	10:00 – 10:30
4.1*	<b>200 MW BUCK POND BESS PROJECT (QP 1117) – LEVEL III ***CEII TOPIC*** (Jupiter Power: Weiqing Jiang) (66.67% VOTE) (2<sup>nd</sup> RC Meeting)</b>	
	<b>JUP-23-G01</b> – Generator application from Jupiter Power for the installation of a 200 MW battery energy storage system in Westfield, MA and interconnecting to Eversource’s 115 kV Buck Pond substation. The proposed in-service date of the project is May 31, 2026.	
	<b>JUP-23-T01</b> – Transmission application from Jupiter Power for the installation of a new 115/34.5/13.2 kV transformer at the Buck Pond project site and a 0.2 mile 115 kV generation lead line from the project site to the Buck Pond 115 kV substation. The proposed in-service date of	

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the project is February 28, 2026.

**ES-23-T46** – Transmission application from Eversource Energy for the conversion of Buck Pond substation to a four breaker ring bus and to increase the LTE rating of the Woodland – Pleasant 115 kV line. The proposed in-service date of the project is February 28, 2026.

(W. Jiang May 3, 2023 Cover Letter, C. Benker March 31, 2023 Cover Letter, Generator Application, Transmission Applications, One-Line Diagrams, System Impact Study, ISO-NE Recommendation Letter, and Presentation)

**4.2\*** **THREE RIVERS SOLAR POWER PROJECT (QP 833) – LEVEL III**  
**\*\*\*CEII TOPIC\*\*\***  
(Versant Power: Debbie Manning) (**66.67 VOTE**) (1<sup>st</sup> RC Meeting)

**VP-21-G25-Rev1** – Generator application from Versant Power on behalf of Three Rivers Solar Power, LLC for the installation of a 100 MW solar facility in Northern Maine on the 115 kV Line 93 between Bull Hill and Deblois substations. The proposed in-service date of the project is December 31, 2023.

**VP-21-T05-Rev1** – Transmission application from Versant Power for the installation of a new QP833 collector substation and 85-foot 115 kV generation lead line from the transformer to the switching station. The proposed in-service date of the project is December 31, 2023.

**VP-21-T06-Rev1** – Transmission application from Versant Power for the installation of a new switching station on Line 93 between Bull Hill and Deblois substations. The proposed in-service date of the project is December 31, 2023.

(D. Manning April 28, 2023 Cover Letter, Generator Application, Transmission Applications, One-Line Diagram, System Impact Study, and ISO-NE Recommendation Letter)

**4.3\*** **QUEUE POSITION 1139 (QP 1139) SOLAR PROJECT – LEVEL III**  
**\*\*\*CEII TOPIC\*\*\***  
(Central Maine Power: Bruce Jagolinzer) (**66.67% VOTE**) (1<sup>st</sup> RC Meeting)

**CMP-23-G39** – Generator application from Central Maine Power on behalf of Turner Meadow Solar Station LLC for the installation of a 19.81 MW solar facility on CMP 34.5 kV Line Section 50, approximately 3.0-miles from the Turner substation. The proposed in-service date of the project is December 31, 2024.

(B. Jagolinzer April 27, 2023 Cover Letter, Generator Application, One-Line Diagram, System Impact System)

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**4.4\*** **CENTRAL MAINE POWER DETROIT-GUILFORD-BELFAST AREA DISTRIBUTED ENERGY RESOURCE (DER) GROUP STUDY PROJECT – LEVEL III \*\*\*CEII TOPIC\*\*\***  
(Central Maine Power: Jacob Farmer) (66.67% VOTE) (1<sup>st</sup> RC Meeting)

26.92 MW Distributed Energy Resource (DER) generation group study in Waldo County and Hancock County, Maine. These generation clusters represent seven DER facilities that interconnect into Central Maine Power’s system. Proposed in-service dates are in 2024. There are 7 generation applications associated with this group study project. Individual PPA descriptions can be found in [Appendix I](#) at the end of this document.

(J. Farmer May 10, 2023 Cover Letter, Generator Applications, One-Line Diagrams, System Impact Study, ISO-NE Recommendation Letter, and Presentation)

**4.5\*** **QUEUE POSITION 905 (QP 905) BATTERY ENERGY STORAGE SYSTEM PROJECT – LEVEL III \*\*\*CEII TOPIC\*\*\***  
(Central Maine Power: Meg Sullivan) (66.67% VOTE) (1<sup>st</sup> RC Meeting)

**CMP-23-G40** – Generator application from Central Maine Power on behalf of South Portland ESS LLC for the installation of a 10 MW/20 MWh battery energy storage system interconnecting to the 636D2 34.5 kV circuit out of Mussey Road substation. The proposed in-service date of the project is December 1, 2024.

(M. Sullivan May 2, 2023 Cover Letter, Generator Application, One-Line Diagrams, System Impact Study, and ISO-NE Recommendation Letter)

**4.6\*** **QUEUE POSITION 1087 (QP 1087) SOLAR PROJECT – LEVEL III \*\*\*CEII TOPIC\*\*\***  
(Central Maine Power: Bruce Jagolinzer) (66.67% VOTE) (1<sup>st</sup> RC Meeting)

**CMP-23-G49** – Generator application from Central Maine Power on behalf of Fairfield Solar LLC for the installation of an 18.14 MW solar facility interconnecting to an express feeder out of the County Road substation. The proposed in-service date of the project is June 30, 2023.

(B. Jagolinzer May 2, 2023 Cover Letter, Generator Application, One-Line Diagrams, System Impact Study, and ISO-NE Recommendation Letter)

**4.7\*** **USS VINEYARD SOLAR 4 MW SOLAR PROJECT – LEVEL III \*\*\*CEII TOPIC\*\*\***  
(Eversource Energy: Carl Benker) (66.67% VOTE) (1<sup>st</sup> RC Meeting)

**ES-23-G26** – Generator application from Eversource Energy on behalf of USS Somers Solar LLC for the installation of a 4.0 MW solar facility in

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Ellington, CT and interconnecting to the 27H1 circuit out of Scitico substation. The proposed in-service date of the project is October 1, 2023.

(C. Benker May 2, 2023 Cover Letter, Generator Application, One-Line Diagrams, System Impact Study, and ISO-NE Recommendation Letter)  
TRANSMISSION COST ALLOCATIONS (TCAs)

10:30 – 10:50

5.0

5.1\*

**EVERSOURCE P145 115 KV LINE REBUILD PROJECT TCA**  
(Eversource Energy: Robin Lafayette) (66.67% VOTE) (1<sup>st</sup> RC Meeting)

**ES-22-TCA-18** – Transmission Cost Allocation (TCA) from Eversource Energy for the P145 115 kV Line Rebuild Project (Merrimack substation – Farmwood substation). The project consists of the replacement of 12.5 miles of existing 795 ACSR conductor with 1272 ACSS conductor, the replacement of two existing copperweld shield wires with two new OPGW, and the replacement of 154 structures with steel structures. Pool Supported PTF costs are \$52.142M (2022 Estimated Costs).

(S. Allen June 14, 2022 Cover Letter, TCA Application, Presentation)

5.2\*

**EVERSOURCE 1428 115 KV LINE ASSET CONDITION AND OPGW REPLACEMENT PROJECT TCA**  
(Eversource Energy: Robin Lafayette) (66.67% VOTE) (1<sup>st</sup> RC Meeting)

**ES-22-TCA-07** – Transmission Cost Allocation (TCA) from Eversource Energy for the 1428 115 kV Line Asset Condition and OPGW Replacement Project (Fairmont substation – Mt. Tom substation). The project consists of the replacement of the replacement of 6.5 miles of copperweld shield wire with OPGW, the replacement of nine lattice structures and one wood structure with steel structures, and the replacement of 1.6 miles of 795 ACSR with new 1590 ACSS conductor. Pool Supported PTF costs are \$7.994M (2022 Estimated Costs).

(D. Burnham March 4, 2022 Cover Letter, TCA Application, Presentation)

5.3\*

**EVERSOURCE GREGGS SUBSTATION REBUILD PROJECT TCA**  
(Eversource Energy: Robin Lafayette) (Future Vote) (1<sup>st</sup> RC Meeting)

**ES-22-TCA-38** – Transmission Cost Allocation (TCA) from Eversource Energy for the Greggs Substation Rebuild Project. The project consists of the construction of a new 115 kV air insulated breaker-and-a-half substation adjacent to the existing Greggs Substation in Goffstown, NH. Pool Supported PTF costs are \$72.193M (2022 Estimated Costs).

(S. Allen October 19, 2022 Cover Letter, TCA Application, Presentation)

5.4\*

**EVERSOURCE 115 KV LINE WOOD AND LAMINATE WOOD STRUCTURE REPLACEMENT AND OPGW PROJECT TCAS**  
(Eversource Energy: Robin Lafayette) (66.67% VOTE) (1<sup>st</sup> RC Meeting)

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Suite of 3 asset condition and OPGW projects from Eversource Energy consisting of the replacement of wood structures and shield wire on three 115 kV lines in CT and NH. Total Pool Supported PTF costs are \$26.885M (2022 Estimated Costs).

**ES-22-TCA-36** – Transmission Cost Allocation (TCA) from Eversource Energy for the P106 115 kV Line Wood/Laminate Wood Structure Replacements and OPGW Installation Project (Rimmon substation – Eddy substation). The project consists of the replacement of 16 wood and laminate wood structures with light-duty steel structures and the installation of 3.4 miles of OPGW. Pool Supported PTF costs are \$5.634M (2022 Estimated Costs).

**ES-22-TCA-37** – Transmission Cost Allocation (TCA) from Eversource Energy for the Q171 115 kV Line Wood Structure Replacement and OPGW Installation Project (Merrimack substation – Greggs substation). The project consists of the replacement of 21.6 miles of copperweld and alumoweld shield wire with OPGW, the removal of one wood structure, and the replacement of 44 wood structures with light-duty steel structures. Pool Supported PTF costs are \$14.966M (2022 Estimated Costs).

**ES-22-TCA-39** – Transmission Cost Allocation (TCA) from Eversource Energy for the 1783 115 kV Line Asset Condition Replacements and OPGW Installation Project (East New Britain substation – Newington substation). The project consists of the replacement of two wood structures with steel structures and the replacement of 7.14 miles of existing shield wire with OPGW. Pool Supported PTF costs are \$6.285M (2022 Estimated Costs).

(S. Allen September 22, September 28, and October 21, 2022 Cover Letters, TCA Applications, Presentation)

6.0 QUALIFIED REACTIVE RESOURCE (QRR) REQUESTS  
6.1\* **SCHEDULE 2 CAPACITY COST COMPENSATION PROGRAM (CCCP) – OGDEN-MARTIN 1 QUALIFIED REACTIVE RESOURCE (QRR) REQUEST \*\*\*CEII TOPIC\*\*\***  
(ISO-NE: Kory Haag) (66.67% VOTE) (1<sup>st</sup> RC Meeting)

10:50 – 11:00

Receive and review Qualified Reactive Resource (QRR) data request from Covanta Energy Marketing LLC for Ogden-Martin 1 (Asset ID# 527). Consider ISO’s recommendation for QRR eligibility.

6.2\* (QRR Request Form, QRR Request Data Sheet, NX-12D)  
**SCHEDULE 2 CAPACITY COST COMPENSATION PROGRAM (CCCP) – BONNY EAGLE RENEWABLE CSF QUALIFIED REACTIVE RESOURCE (QRR) REQUEST \*\*\*CEII TOPIC\*\*\***  
(ISO-NE: Kory Haag) (66.67% VOTE) (1<sup>st</sup> RC Meeting)

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Receive and review Qualified Reactive Resource (QRR) data request from Brookfield White Pine Hydro LLC for Bonny Eagle Renewable CSF (Asset ID# 73278). Consider ISO's recommendation for QRR eligibility.

- 6.3\* (QRR Request Form, QRR Request Data Sheet, NX-12D)  
**SCHEDULE 2 CAPACITY COST COMPENSATION PROGRAM (CCCP) – RUMFORD RENEWABLE CSF QUALIFIED REACTIVE RESOURCE (QRR) REQUEST \*\*\*CEII TOPIC\*\*\***  
(ISO-NE: Kory Haag) (**66.67% VOTE**) (1<sup>st</sup> RC Meeting)

Receive and review Qualified Reactive Resource (QRR) data request from Brookfield White Pine Hydro LLC for Rumford Renewable CSF (Asset ID# 73286). Consider ISO's recommendation for QRR eligibility.

- 7.0 (QRR Request Form, QRR Request Data Sheet, NX-12D)  
OPERATING PROCEDURES (OPs) 11:00 – 12:00  
7.1\* **OP-14 APPENDICES F, H AND I – TECHNICAL REQUIREMENTS FOR GENERATORS, DEMAND RESPONSE RESOURCES, ASSET RELATED DEMANDS, AND ALTERNATIVE TECHNOLOGY REGULATION RESOURCES**  
(ISO-NE: Anthony Stevens) (**66.67% VOTE**) (2<sup>nd</sup> RC Meeting)

Discussion and vote on revisions to update references in Real-Time Data Tables.

- 7.2\* (OP-14 Appendices F, H, and I Clean and Redline, Presentation)  
**OP-16 APPENDIX K – INSTRUCTIONS FOR SUBMISSION OF SHORT CIRCUIT DATA**  
(ISO-NE: John Pearson) (**66.67% VOTE**) (2<sup>nd</sup> RC Meeting)

Discussion and vote on revisions to include Aspen bus naming standard.

- 7.3\* (OP-16K Clean and Redline, Presentation)  
OP-18 AND APPENDIX A – METERING AND TELEMETERING CRITERIA  
(ISO-NE: John Pearson) (Future Vote) (2<sup>nd</sup> RC Meeting)

Discussion on revisions to add new communication channel requirements for SCADA Servers and refines terms for LCC control center configurations.

- 7.4\* (OP-18 and Appendix A Clean and Redline, Presentation)  
OP-22 – DISTURBANCE MONITORING REQUIREMENTS  
(ISO-NE: John Pearson) (Future Vote) (2<sup>nd</sup> RC Meeting)

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Discussion on revisions to add new PMU installation criteria to better understand Bulk Electric System impacts from behind-the-meter generation under transient system conditions.

(OP-22 Clean and Redline, Presentation)

7.5\* OP-23 AND APPENDICES A AND H – RESOURCE AUDITING  
(ISO-NE: Anthony Stevens) (Future Vote) (1<sup>st</sup> RC Meeting)

Discussion on revisions to change how Claim 10/30 Audit requests are submitted, modified, and cancelled for Generator Assets and retire Appendix A.

(OP-23 and Appendices A and H Clean and Redline, Presentation)

**Lunch**

12:00 – 12:30

8.0 PLANNING PROCEDURES (PPs)

12:30 – 12:45

8.1\* **PLANNING PROCEDURE 4-1 – IMPLEMENTATION OF COST RESPONSIBILITY DETERMINATION FOR SCHEDULE 11 CATEGORY C PROJECT TRANSMISSION UPGRADES IN CIRCUMSTANCES OF MULTIPLE NEEDS**

(ISO-NE: Mike Drzewianowski) (**66.67% VOTE**) (2<sup>nd</sup> RC Meeting)

Discussion and vote on revisions to conform PP 4-1 to Attachment K.

(PP4-1 Clean and Redline, Presentation)

9.0\* EMERGING TECHNOLOGIES WORKING GROUP (ETWG)  
REFERRAL REQUEST  
(ETWG Chair: Dennis Cakert) (Notification) (2<sup>nd</sup> RC Meeting)

12:45 – 1:00

Update on potential solutions to issues conducting Establish Claimed Capability (ECC) audits for energy storage systems co-located with PV where there is a limitation by design.

(Memo)

10.0\* OPERATIONAL IMPACT OF EXTREME WEATHER EVENTS  
(ISO-NE: Stephen George) (Notification) (11<sup>th</sup> RC Meeting)

1:00 – 4:55

Review of Step 3 (Probabilistic Energy Assessments) preliminary results for study year 2027.

(Presentation)

11.0 OTHER BUSINESS

4:55 – 5:00

12.0 CLOSING REMARKS/ADJOURN FOR THE DAY

5:00

## APPENDIX I

\* Material distributed for this agenda item

AGENDA ITEMS with **BOLD & ITALICIZED FONT**: RC ACTION Requested

**CENTRAL MAINE POWER DETROIT-GUILFORD-BELFAST AREA DISTRIBUTED ENERGY RESOURCE (DER) GROUP STUDY PROJECT – LEVEL III \*\*\*CEII TOPIC\*\*\***  
(Central Maine Power: Jacob Farmer) (66.67% VOTE) (1<sup>st</sup> RC Meeting)

26.92 MW Distributed Energy Resource (DER) generation group study in Waldo County and Hancock County, Maine. These generation clusters represent seven DER facilities that interconnect into Central Maine Power’s system. Proposed in-service dates are in 2024. There are 7 generation applications associated with this group study project.

**CMP-23-G41** – Generator application from Central Maine Power (CMP) on behalf of EDF Renewables for the installation a 4.999 MW PV facility in Belfast, ME and interconnecting to the Belfast substation via the 874D1 circuit. Proposed in-service date is June 1, 2024.

**CMP-23-G42** – Generator application from Central Maine Power (CMP) on behalf of Belfast Solar 1 LLC for the installation a 3.5 MW PV facility in Belfast, ME and interconnecting to the Belfast substation via the 803D3 circuit. Proposed in-service date is September 1, 2024.

**CMP-23-G43** – Generator application from Central Maine Power (CMP) on behalf of Belfast PV LLC for the installation a 2.475 MW PV facility in Belfast, ME and interconnecting to the Belfast substation via the 803D6 circuit. Proposed in-service date is December 31, 2024.

**CMP-23-G44** – Generator application from Central Maine Power (CMP) on behalf of Penobscot Narrows Solar 1, LLC for the installation a 4.98 MW PV facility in Bucksport, ME and interconnecting to the Bucksport substation via the 806D2 circuit. Proposed in-service date is January 15, 2024.

**CMP-23-G46** – Generator application from Central Maine Power (CMP) on behalf of ME I Prospect Pond LLC for the installation a 4.974 MW PV facility in Prospect, ME and interconnecting to the Prospect substation via the 846D1 circuit. Proposed in-service date is July 7, 2024.

**CMP-23-G47** – Generator application from Central Maine Power (CMP) on behalf of ER Brooks Solar for the installation a 4.0 MW PV facility in Brooks, ME and interconnecting to the Brooks substation via the 805D1 circuit. Proposed in-service date is September 1, 2024.

**CMP-23-G48** – Generator application from Central Maine Power (CMP) on behalf of 510 PV Project Development LLC for the installation a 1.99 MW PV and 1.99 MW/ 13.0 MWh DC Coupled Battery facility in Bucksport, ME and interconnecting to the Bucksport substation via the 806D1 circuit. Proposed in-service date is December 15, 2024.