



RSP Project List and Asset Condition List June 2026 Update

Planning Advisory Committee Meeting

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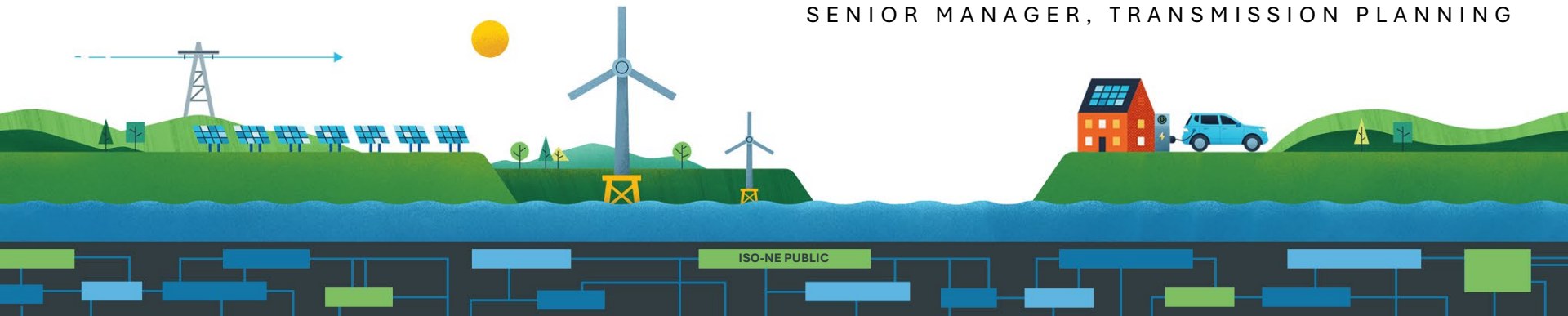


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Highlights of the RSP Project List Update

- **Major cost estimate changes greater than \$5M that occurred between the March 2026 and June 2026 Project Lists**
 - None
- **New projects**
 - No new projects
- **One upgrade has been placed in-service since the March 2026 update**
 - (MA) Western and Central Massachusetts 2028 Short Circuit Solutions
 - one project
- **No cancelled projects since the March 2026 update**



June 2026 RSP Project List Update

- No new projects



June 2026 RSP Project List Update, cont.

- One upgrade has been placed in-service since the March 2026 update

Project ID #	Transmission System Upgrades	Cost (in millions \$)	Primary Equipment Owner	Improvement/Need
1916	Replace one 115 kV circuit breaker at the Millbury substation (MA) Western and Central Massachusetts 2028 Short Circuit Solutions	0.8	National Grid, USA	Resolve short circuit issues in the area



June 2026 RSP Project List Update, cont.

- Cost Estimate Comparisons of Reliability Projects
March 2026 vs. June 2026 Update**

	As of Mar. 2026 Plan Update	As of Jun. 2026 Plan Update	Change in Plan Estimate
MAJOR PROJECTS ***			
Southeast Massachusetts/Rhode Island Reliability (SEMA/RI)	441	441	0
Upper Maine (UME) 2029 Solutions	151	151	0
Boston 2033 Solutions	26	26	0
SUBTOTAL **	618	618	0
OTHER PROJECTS	12774	12774	0
NEW PROJECTS	0	0	0
TOTAL **	13393	13393	0
Minus 'in-service'	-13111	-13112	-1
Aggregate estimate of active projects in the Plan **	282	281	-1

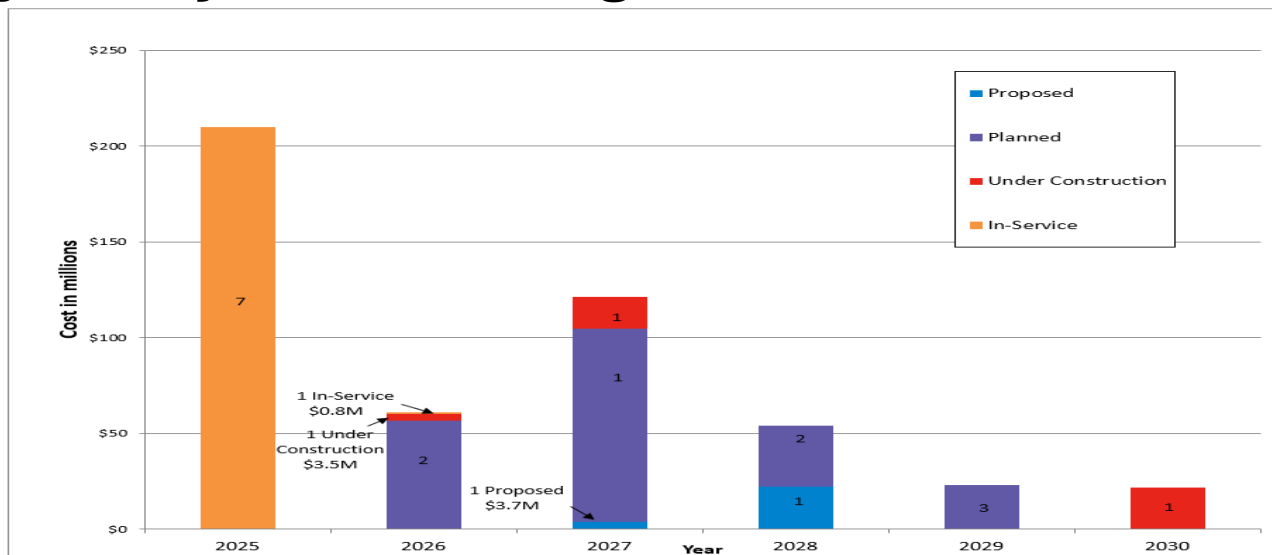
* Transmission Owners provided all estimated costs, which may not meet the guidelines described in Planning Procedure 4, Attachment D.

** May not sum exactly due to rounding.

*** The cost estimates for projects in the "Major Projects" category are moved to the "Other Projects" category once they are fully completed.

June 2026 RSP Project List Update, cont.

- Investment of New England Transmission Reliability Projects by Status through 2030



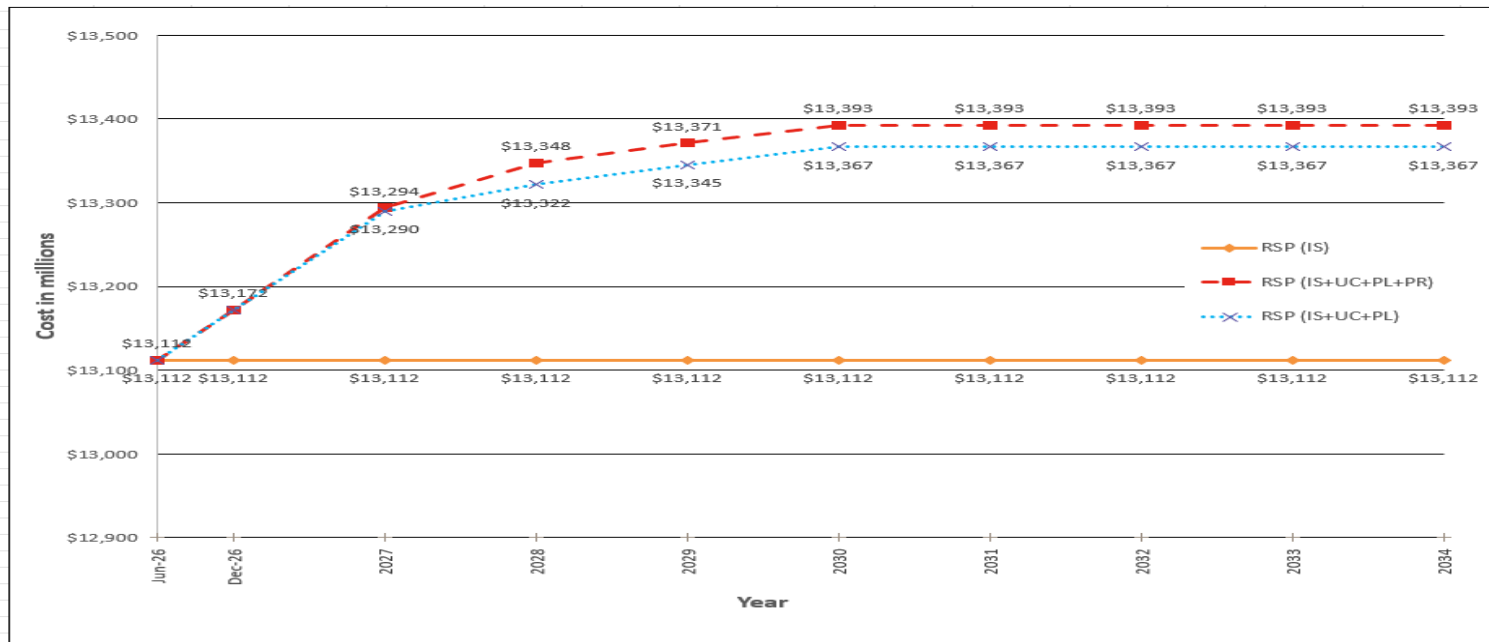
* Numbers shown represent project quantities.

** Future total \$ are shown at the end of the project. Totals do not reflect or show phasing in over time or the depreciation of prior projects. Total costs are associated with the year projects are placed in-service as reported in the Project List.



June 2026 RSP Project List Update, cont.

- Cumulative Investment of New England Transmission Reliability Projects through 2034



* IS – In Service, UC – Under Construction, PL – Planned, PR – Proposed

** Future total \$ are shown at the end of the project. Totals do not reflect or show phasing in over time or the depreciation of prior projects. Total costs are associated with the year projects are placed in-service as reported in the Project List.

June 2026 RSP Project List Update, cont.

- Reliability Project Counts and Aggregated Cost Estimates by Project Stage with Applied Accuracy Ranges*

Project Stage (Status)	Component / Project / Plan Count	Estimate Range		Estimated Costs (\$millions)		Range	
		Minimum	Maximum			Minimum (\$millions)	Maximum
Proposed	2	-25%	25%**	26		20	33
Planned	8	-25%	25%	213		160	266
Under Construction	3	-10%	10%	42		38	46
Total Plan	13			***	281	217	345
In-Service *****	1	-10%	10%	1		1	1
Cancelled	0	-25%	25%	0		0	0

* All costs are provided by Transmission Owners. The costs in the table reflect all projected in-service dates.

** All estimates may not yet be at this level of accuracy; many estimates may be -25%/+50%.

*** May not add up due to rounding.

***** In-Service projects are those projects that went into service since the last update.

Status of Major Transmission Projects

	PPA	TCA	Construction
Southeast MA/RI Reliability (SEMA/RI)	Approved 5/2017, 4/2018, 10/2023	Submitted	2018 - 2027
Boston 2033 Solutions	Not Submitted	Not Submitted	2027 - 2028
Upper Maine (UME) 2029 Solutions	Approved 2/2022, 4/2024 (Versant Power) Approved 5/2022, 8/2023 (Avangrid)	Submitted (Versant Power) Not Submitted (Avangrid)	2024 - 2028

ASSET CONDITION LIST UPDATE



Highlights of the Asset Condition List Update

- **Major cost estimate changes greater than \$5M that occurred between the March 2026 and June 2026 Asset Condition Lists**
 - (MA) National Grid, USA 302 345 kV Line Asset Condition Refurbishment (ACL 452)
 - Cost decrease of \$5.6M due to design and schedule efficiencies. The project was presented at [the September 2024 PAC](#)
 - (MA) National Grid, USA O-141/P-142 115 kV Line Asset Condition Refurbishment (ACL 439)
 - Cost decrease of \$8.4M due to construction efficiencies and assumed risks that did not materialize. The project was presented at [the September 2024 PAC](#)
 - (VT) Vermont Electric Power Company Sand Bar phase shifter life extension with SmartValve (ACL 436)*
 - Cost decrease of \$27.4M due to scope change from 6 valve modules per phase to 4, and updated cost estimate to construction grade with 10% contingency instead of the early +50%/-25%. The project was presented at [the June 2025 PAC](#)
 - (MA) Eversource NERC CIP-014 - Physical Security Upgrades - Round 1 (ACL 421)
 - Cost increase of \$6.8M reflects current projected final cost of the projects.
 - (NH) Eversource Laminated Wood Structure Replacement Program Phase III and OPGW - A164 (ACL 406)
 - Cost decrease of \$25.2M as result of market and contractor availability coming in under the estimated budget and the ability to execute the project without realizing the risk and contingency budget. The project was presented at [the June 2023 PAC](#)
 - (NH) Eversource Scobie Pond Station 345 kV Trench Replacement & Control House Expansion Project (ACL 349)
 - Cost decrease of \$7.5M as result of mitigating and avoiding carried risks assumed in the budget. The project was presented at [the August 2025 PAC](#)
 - (CT) UI Railroad Corridor Transmission Line Asset Condition Upgrades (ACLs 157 & 158)
 - Cost decrease of \$17.3M each due to ability to place the lines in service earlier than anticipated. The projects were presented at [the November 2022 PAC](#) and the [August 2024 PAC](#)

** The total cost is \$34.0M and the DOE is funding \$13.8M of that cost.*



Highlights of the Asset Condition List Update, cont.

- **9 new projects totaling \$303.3M**
 - Details on the next few slides
- **7 upgrades have been placed in-service since the March 2026 update totaling \$362.1M**
 - Details on the next few slides
- **No cancelled projects since the March 2026 update**

June 2026 Asset Condition List Update

- 9 New Projects

Project ID #	Transmission System Upgrades	Cost (in millions \$)	Primary Equipment Owner
522	NERC CIP-014 - Physical Security Upgrades - Round 2 / NH Site 1 (New Hampshire)	2.0	Eversource
523	Long Mountain Substation - 345 kV Breaker Replacement, Cable Separation, and Shielding (Connecticut)	17.6	Eversource
524	Stony Hill 48C 115 kV Substation Relay Upgrades (Connecticut)	5.0	Eversource
525	Chester SVC Control Update (Maine)	12.7	Versant Power
526	Line 1785 Optical Ground Wire Installation Project (Connecticut)	7.2	Eversource
527	Lines 325, 331, and 344 Rebuilds - West Medway Substation to West Walpole Substation (Massachusetts)	82.4	Eversource
528	301 345 kV Line Asset Condition Replacement (Massachusetts)	15.9	National Grid, USA

June 2026 Asset Condition List Update, cont.

- 9 New Projects

Project ID #	Transmission System Upgrades	Cost (in millions \$)	Primary Equipment Owner
529	E-157/E-157E/E-157W 115 kV Lines Asset Condition Replacement (Massachusetts)	93.0	National Grid, USA
530	F206 230 kV Line Asset Condition Refurbishment (Vermont)	67.5	Vermont Electric Power Company

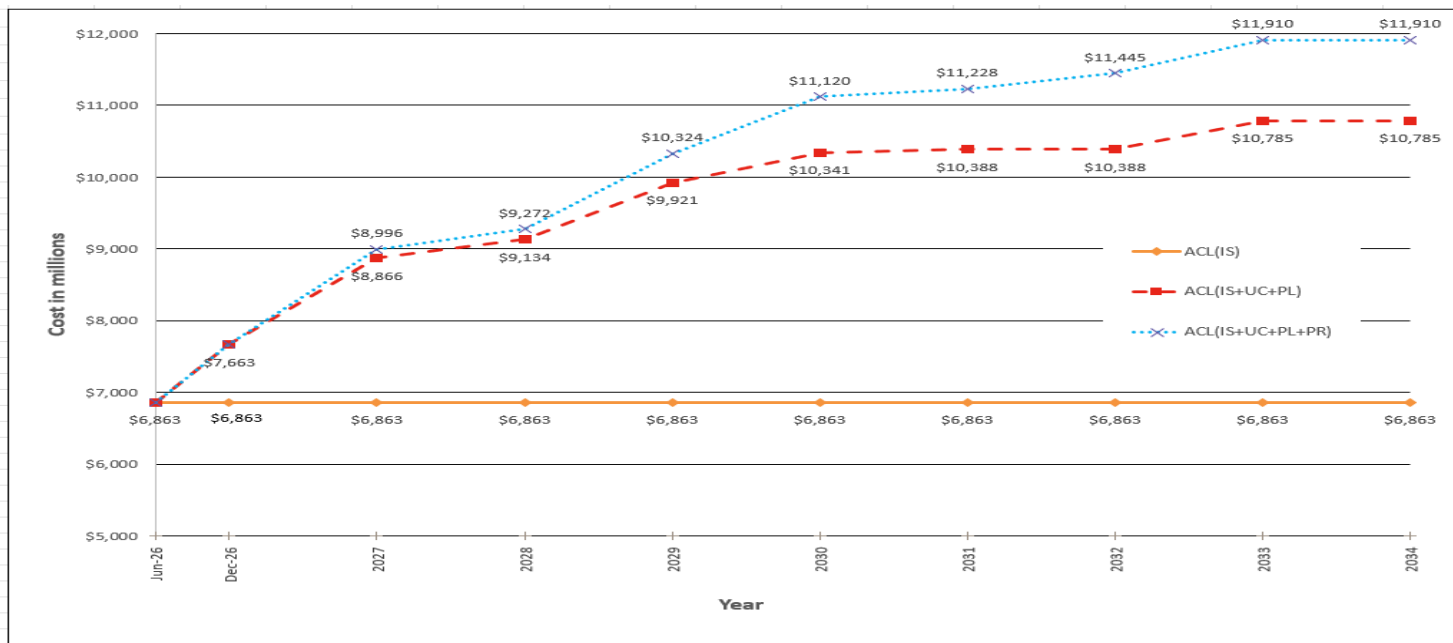
June 2026 Asset Condition List Update, cont.

- 7 Projects Placed In-Service

Project ID #	Transmission System Upgrades	Cost (in millions \$)	Primary Equipment Owner
305	Line K42 Asset Condition Line Replacement (Vermont)	88.7	Vermont Electric Power Company
349	Scobie Pond Station 345 kV Trench Replacement & Control House Expansion Project (New Hampshire)	27.6	Eversource
406	Laminated Wood Structure Replacement Program Phase III and OPGW - A164 (New Hampshire)	37.2	Eversource
411	Deerfield 345/115 kV Relay Upgrades (New Hampshire)	6.1	Eversource
419	S8 115 kV Line Asset Condition Project (Massachusetts)	66.6	National Grid, USA
421	NERC CIP-014 - Physical Security Upgrades - Round 1 (Connecticut)	128.0	Eversource
455	Westminster Switch Tower Rebuild and East Westminster Switch Replacement (Massachusetts)	7.9	National Grid, USA

June 2026 Asset Condition List Update, cont.

- Cumulative Investment of New England Asset Condition Projects through 2034

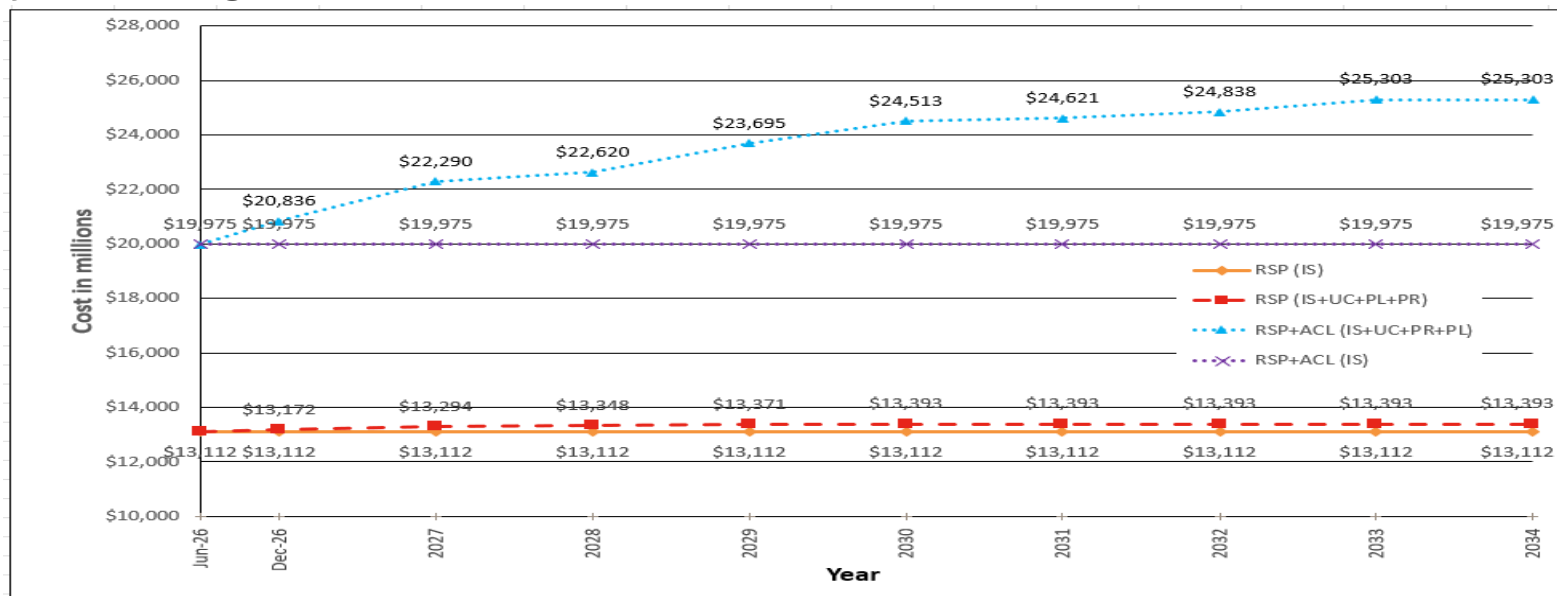


* IS – In Service, UC – Under Construction, PL – Planned, PR – Proposed

** Future total \$ are shown at the end of the project. Totals do not reflect or show phasing in over time or the depreciation of prior projects. Total costs are associated with the year projects are placed in-service as reported in the Project List.

June 2026 Asset Condition List Update, cont.

- Cumulative Investment of New England Transmission Reliability and Asset Condition Projects through 2034



* IS – In Service, UC – Under Construction, PL – Planned, PR – Proposed

** Future total \$ are shown at the end of the project. Totals do not reflect or show phasing in over time or the depreciation of prior projects. Total costs are associated with the year projects are placed in-service as reported in the Project List.

Next Steps

- Please provide comments related to the project lists to pacmatters@iso-ne.com by July 8, 2026
- The final version of the RSP Project list, Asset Condition list, and the presentation will be posted on the [RSP Project List and the Asset Condition List](#) website, along with responses to any written stakeholder feedback received, following the comment period



Questions



APPENDIX



RSP Project List

- **Project List Column Definitions for**
 - Reliability Projects
 - Interconnection Projects
 - Market Efficiency Upgrades
 - Elective Projects



RSP Project List – Column Definitions

- **Part Number (Part #)**
 - The Part #'s designate the 'need' category of the project*
 - Part 1: these projects are Reliability Upgrades
 - 1a Planned (must be the preferred solution to solve the needs and if required, have I.3.9 approval) or Under Construction
 - 1b Proposed (is supported by a Solutions Study or a Competitive Solution Process)
 - Part 2: these projects are Generator Interconnection Upgrades
 - 2a Planned (I.3.9 approval with Interconnection Agreement including FCM related transmission upgrades to meet the Capacity Capability Interconnection Standard), or Under Construction
 - 2b Proposed (at a minimum, a completed System Impact Study and I.3.9 approval but no Interconnection Agreement)
 - Part 3: these projects are Market Efficiency Upgrades
 - 3a Planned (must be the preferred solution to solve the needs and have I.3.9 approval) or Under Construction
 - 3b Proposed (is supported by a Competitive Solution Process)
 - Part 4: these projects may be promoted by any entity electing to support the cost of transmission changes. The entity sponsoring the changes will have their own justification for their actions
 - 4a Planned (I.3.9 approval with Interconnection Agreement) or Under Construction
 - 4b Proposed (I.3.9 approval but without Interconnection Agreement)

* Original categories are not changed when a project is placed 'In-Service' or 'Cancelled'.



RSP Project List – Column Definitions, cont.

- **Project ID**
 - The Project ID is generated by ISO-NE System Planning
- **Primary Equipment Owner**
 - The company listed here is the responsible equipment owner/provider designated to design and implement the project
- **Other Equipment Owner**
 - For projects that involve multiple Transmission Owners, the company listed here is also a responsible equipment owner/provider designated to design and implement the project
- **Projected Month/Year of In-Service**
 - The month/year entered is the date the project is expected to be placed in service
- **Major Project**
 - Name is given to a project that consists of smaller subprojects
- **Project/Project Component**
 - The month/year entered is the date the project is expected to be placed in service
 - A brief, high-level description of the project is entered her
 - Includes major pieces of substation equipment and/or types of line work to be performed

RSP Project List – Column Definitions, cont.

- **Status**
 - In Service
 - The project has been placed in operation
 - Under Construction
 - The project has received necessary approvals and a significant level of engineering or construction is underway
 - Planned
 - A regulated transmission solution upgrade that has been approved by the ISO pursuant to Section I.3.9 of the Tariff if required, or
 - An interconnection related transmission upgrade that has been approved by the ISO pursuant to Section I.3.9 of the Tariff with Interconnection Agreement
 - Proposed
 - A regulated transmission solution that has been selected by the ISO in response to a Needs Assessment and communicated to PAC, or
 - An interconnection related transmission upgrade that has been approved by the ISO pursuant to Section I.3.9 of the Tariff, but without Interconnection Agreement
 - Cancelled
 - Project has been cancelled

* On December 10, 2019, FERC accepted Tariff changes that removed the 'Concept' category.

RSP Project List – Column Definitions, cont.

- **PPA Approval (Review of Market Participant’s Proposed Plans)**
 - A date in this column signifies when the project received approval pursuant to Section I.3.9 of the ISO-New England Tariff. This approval indicates that the project will have no adverse impact on the stability, reliability, or operating characteristics of the system.
 - A ‘no’ indicates that an approval is required, but has not been received yet
 - An ‘NR’ indicates that an I.3.9 approval is not required
- **TCA Approval (Transmission Cost Allocation)**
 - A date in this column signifies when the project PTF costs were reviewed and approved. This approval indicates that it has been agreed whether, and by how much, the scope of the project and associated costs exceed regional needs
 - An ‘NR’ indicates that a TCA approval is not applicable because the project has been cancelled, has no/minimal PTF cost, or is associated with the interconnection of a resource or Elective Transmission Upgrade
- **Estimated Costs**
 - The PTF project cost estimate presented here should be the best estimate available. It is understood that the estimate accuracy may vary dependent on the maturity of the project. Accuracy tolerances for these estimates are targeted as follows:
 - Proposed Project that has been reviewed and approved to proceed by ISO-NE (+50%/-25%)
 - I.3.9-Approved Project (+/-25%), and
 - TCA-Approved Project (+/-10%)
 - An “NR” indicates that the project cost is not eligible for regionalization