

# LOCAL SYSTEM PLAN 2019

Planning Advisory Committee Meeting
October 24, 2019



#### **Update to Eversource LSP for 2019**

- The Eversource Local System Plan (LSP) has been revised to incorporate the latest proposed changes to the Eversource Local transmission system for Connecticut, Massachusetts, and New Hampshire.
- The LSP Project List is a cumulative listing of proposed transmission solutions intended to meet local needs.
- This LSP-2019 supersedes Eversource's LSP-2018.



#### Purpose of the Local System Plan

#### Per Attachment K – Local, the LSP:

- Describes projected improvements to Non-PTF (Non-Pool Transmission Facilities) that are needed to maintain system reliability
- Reflects:
  - Local Needs Assessments
  - Public Policy Requirements (State, Federal, or Local)
  - Corresponding transmission system plans and future studies
  - Maps indicating project locations
- Identifies:
  - Local Planning Process
  - Criteria, Data, and Assumptions used in the Local System Planning Process

### EVERS URCE ENERGY

#### **LSP Communication**

- ISO-NE posts the materials on the PAC web page prior to the meeting.
- PAC, Transmission Customers, and other Stakeholders have 30 days after the meeting to provide any written comments for consideration by Eversource.
  - Comments to be directed to

#### **Digaunto Chatterjee**

Director, System Planning

Eversource

56 Prospect Street

Hartford, CT 06103

Phone: (860) 728-4832

email: <u>digaunto.chatterjee@eversource.com</u>



#### LSP Communication (cont.)

- Each PTO (Participating Transmission Owner) is individually responsible for publicly posting and updating the status of its respective LSP and transmission project list on their website in a format similar to the ISO-NE Regional System Plan (RSP) Project List.
- Eversource's project lists are located at:

https://www.eversource.com/Content/ct-c/about/major-projects-infrastructure/transmission-rates-tariffs-interconnections/ferc-order-890-posting-and-676-e-requirements



#### **Local System Planning Process**

- Local studies can result from:
  - Load growth
  - Area reliability assessments
  - Point of delivery requests from customers
  - Public Policy Requirements (State, Federal, or Local)
  - Other efforts that may impact local facilities (e.g., elective transmission upgrades, reliability transmission upgrades, generator interconnections, short circuit or temporary overvoltage studies)
- The Local System Plan:
  - Summarizes the needs
  - Summarizes the selection of preferred solution
  - Includes Local Projects that are related to projects listed in the RSP

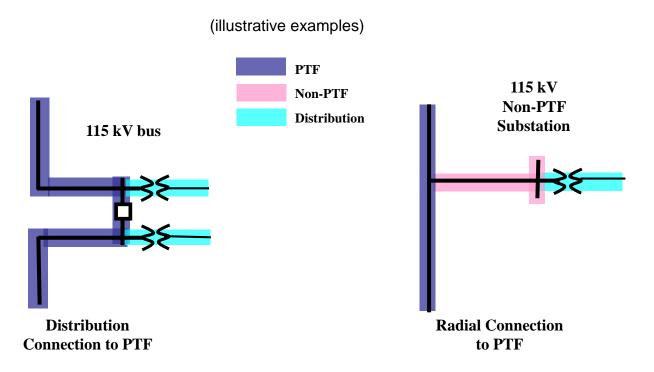


### **Criteria and Assumptions**

- All Eversource local transmission facilities (69 kV and above) are part of the interconnected Eversource system and shall be designed in accordance with criteria described in the Eversource transmission reliability guidelines.
- Eversource complies with NERC, NPCC, and ISO-NE planning criteria.
- The annual ISO-NE CELT Report forecasts for the New England area (90/10) load, with appropriate municipal customer forecasts and/or subarea forecasts, are used.
  - When local area loads peak at times that are different from the ISO-NE System Peak (basis of CELT Report forecast loads), local substation peak loads may be substituted for the ISO-NE CELT forecast loads.
- Studies use the ISO-NE provided base cases and the ISO-NE short circuit database.



### This Local System Plan includes the following types of Transmission System connections



Eversource has distribution connections and radial transmission connections.



## NH, MA, and CT Projects in Regional System Plan

Large-scale reliability assessments may ultimately have Local ramifications. Assessment studies are described in the ISO-NE RSP. Several longer-term assessments have been completed, and others are being conducted. Information about studies being conducted that may affect the local system can be found in the ISO-NE 2019 RSP:

- New Hampshire, RSP sections 5.4 and 5.5.7
- Connecticut, RSP sections 5.4, 5.5.1, 5.5.2, and 5.5.8
- Eastern Massachusetts, RSP sections 5.5.4, and 5.5.5
- Western Massachusetts, RSP section 5.5.3

### EVERS\(\Rightarrow\)URCE

#### **Public Policy Requirements**

- On May 1, 2017, NESCOE communicated its decision not to request that ISO-NE initiate a Public Policy Transmission Study in the current planning cycle and determined that, at this time, there are no State or Federal Public Policy Requirements "driving transmission needs relating to the New England Transmission System."
- On June 21, 2017, ISO-NE communicated that it reviewed and agreed with NESCOE's position. ISO-NE also communicated that it was not aware of any local Public Policy Requirements driving the need for transmission and thus will not be conducting a Public Policy Transmission Study.
- On September 18, 2017, Eversource communicated that it has reviewed ISO-NE's and NESCOE's responses and determined that there are no Public Policy Requirements identified in the ISO-NE Public Policy Transmission Upgrade process that are potentially driving transmission needs on Eversource's Non-PTF systems.
- Eversource has not received any input since the last LSP Public Policy update in October, 2017, concluding the cycle.

See Appendix – Public Policy Statement for details



#### **LSP Project List**

- The LSP Project List is a cumulative listing of proposed transmission solutions intended to meet LSP needs.
- The LSP Project List includes the status of each Local Pool Transmission Facility (PTF) project and Non-Pool Transmission Facility (Non-PTF) project. Costs are provided for Proposed, Planned, Under Construction, and In Service categories of projects, using the same guidelines as the various stages of RSP projects. Some projects may have costs yet to be determined.
  - Concept Project is under consideration as a possible solution to a need, for which there is little to no analysis available.
  - Proposed Eversource has determined that the project is an appropriate solution to the need, but a Proposed Plan Application (PPA) is not yet filed.
  - Planned PPA has been filed and approved by ISO-NE.
  - Under Construction Final engineering and internal approvals completed and project being implemented.
  - In Service Project completed.



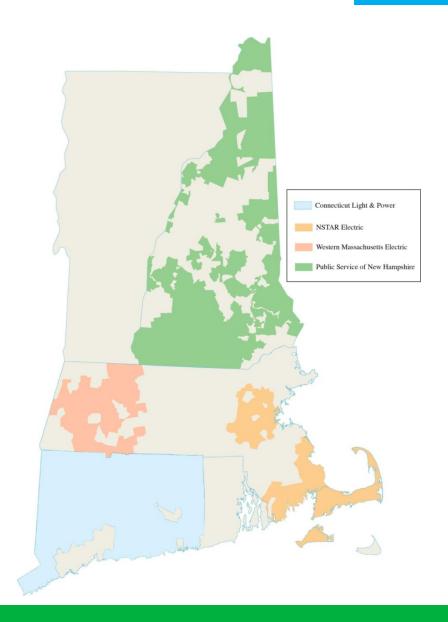
#### **Eversource Service Territories**

Eversource operates in three states:

Connecticut

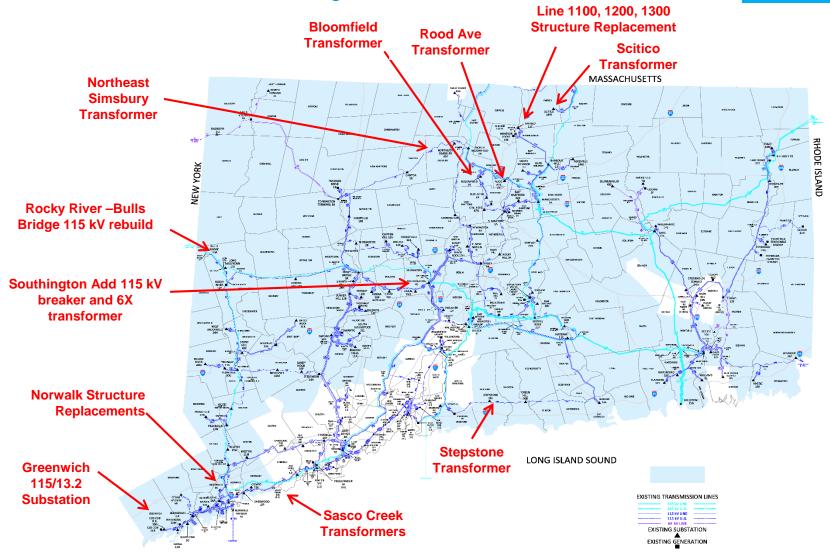
Massachusetts

New Hampshire





#### **Connecticut Projects**





#### **Local System Plan – Connecticut**

	Eversource Local Area Projects - Connecticut								
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution				
Local Reliability	Dec-18	Greater Hartford	Bloomfield Substation- Transformer replacement (Bloomfield)	In-Service	Replacement of aging 2X 115/23-kV, 45 MVA transformer with a new 115/23-kV, 60.0 MVA transformer.				
Local Reliability	Feb-19 \$7.9M	Northern	Line 1100, 1200, 1300 Structure Replacements	In-Service	Replace existing structures on the Barbour Hill to Enfield 115-kV 1100, 1200, 1300 lines due to Asset Condition.				
Local Reliability	May-19 \$16.8M	Northwest	Rocky River to Bulls Bridge 115-kV 1555 Line Rebuild	In-Service	Rebuild the entire line with 556 kcmil ACSS conductor.				
Local Reliability	Dec-19	Southwest	Southington Substation - Add a 115-kV circuit breaker with Southington 6X Distribution Transformer	Under Construction	Add a 115 kV circuit breaker with the Southington 6X distribution transformer at the Southington substation.				
Local Reliability	Dec-19	Springfield (MA)	Scitico Substation - Transformer addition (Enfield)	Under Construction	Add a third 115/23-kV, 62.5 MVA transformer and one 115-kV circuit breaker.				
Local Reliability	Dec-19	Eastern	Stepstone Substation - Transformer addition (Guilford)	Under Construction	Install a second 115/23-kV, 62.5 MVA, transformer to increase capacity and improve reliability.				
Local Reliability	May-20	Greater Hartford	Northeast Simsbury Substation - Transformer addition (Simsbury)	Under Construction	Install a 2nd 115/23-kV, 62.5 MVA, transformer to increase capacity and improve reliability.				





			<b>Eversource Local Area Projects</b>	- Connect	icut
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution
Local Reliability	Jun-20 \$85.0M	Norwalk/ Stamford	Greenwich 115/13.2-kV Substation Project (Greenwich)	Under Construction	Add a new 115/13.2-kV bulk power substation in the Greenwich area with two 62.5 MVA transformers and one circuit breaker to increase capacity and improve reliability. Also, two new 115-kV cable circuits from Cos Cob to Greenwich.
Local Reliability	Dec-20	Greater Hartford	Rood Avenue Substation - Transformer addition (Windsor)	Proposed	Add a second 115/23-kV, 62.5 MVA, transformer to increase capacity and improve reliability.
Local Reliability	Dec-20	Southwest	Sasco Creek Substation - Metro North to replace transformers (Westport)	Proposed	Replacement of aging 1X and 2X 115/27.6-kV transformers.
Local Reliability	2021	Southwest	Norwalk -CDOT replace structures at Norwalk River crossing (Norwalk)	Proposed	Replace 115 kV structures at Norwalk River crossing
Local Reliability	2021	Greater Hartford	Newington Substation - Transformer replacements (Newington)	Concept	Replacement of aging 1X and 3X 115/23-kV, 45 MVA transformers with two new 115/23-kV, 62.5 MVA transformers.
Local Reliability	2021	Northwest	Franklin Drive Substation - Transformer replacements (Torrington)	Concept	Replacement of aging 4X and 5X 115/13.2-kV, 25 MVA transformers with two new 115/13.2-kV, 62.5 MVA transformers.
Local Reliability	2021	Southwest	Sandy Hook Substation - Transformer addition (Newtown)	Concept	Add a second 115/23-kV transformer 62.5 MVA to the substation to increase capacity and improve reliability.
Local Reliability	2021	Northwest	Carmel Hill Substation - Transformer addition. (Woodbury)	Concept	Add a second 115/23-kV transformer 62.5 MVA to the substation to increase capacity and improve reliability.





	Eversource Local Area Projects - Connecticut								
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution				
Local Reliability	2021	Northwest	Falls Village Substation - Transformer replacement (Canaan)	Concept	Replacement of aging 69/13.2 kV transformer with a new 62.5 MVA transformer.				
Local Reliability	2022	Eastern	Mansfield Substation - Transformer additions and removal (Mansfield)	Concept	Install two 115/23-kV, 62.5 MVA transformers and eliminate the single 27.6-kV transformer.				
Local Reliability	2023	Southwest	West Brookfield Substation - Transformer replacement (Brookfield)	Concept	Replace two 115/13.8-kV, 25 MVA transformers with two 62.5 MVA transformers to improve capacity and improve reliability.				
Local Reliability	2023	Eastern	Bokum Substation - Transformer replacements (Old Saybrook)	Concept	Replacement of aging 115/27.6 kV transformers with new 62.5 MVA transformers.				
Local Reliability	2023	Eastern	Southington Substation - Transformer replacement (Southington)	Concept	Add a 115/13.8 kV 62.5 MVA transformer to increase capacity and improve reliability.				

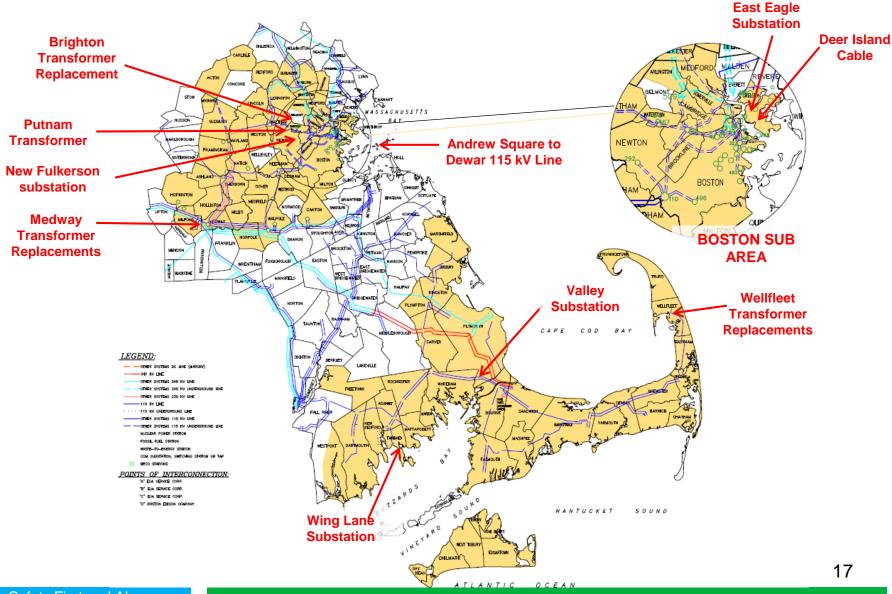




	Eversource Local Area Projects - Connecticut									
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution					
Local Reliability	2024		Salisbury Substation - Transformer replacement (Salisbury)		Replacement of aging 69/13.2 kV transformer with a new 62.5 MVA transformer.					
Local Reliability	2024	Eastern	Skungamaug Substation - Transformer replacement (Coventry)		Replacement of aging 69/13.8 kV transformer with a new 62.5 MVA transformer.					
Local Reliability	2024	SOUTHWAST	Peaceable Substation - Transformer replacement (Redding)	Concept	Replacement of two aging 115/13.8 kV 25 and 30 MVA transformers with two new 62.5 MVA transformers.					



#### **Eastern Massachusetts Projects**



## **Local System Plan – Eastern Massachusetts**



	Eversource Local Area Projects - Eastern Massachusetts									
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution					
Local Reliability	Dec-18 \$7M	SEMA	Wing Lane Substation #624 - New substation and transformer addition	In-Service	Double-End Wing Lane Substation with 2nd 40 MVA 115/13.2-kV bank. Reconfigure lateral #112 line to Arsene Street with a ABB Pass MO two-breaker auto throw over scheme.					
Local Reliability	Dec-18	NEMA	Brighton Station #329 -Transformer replacement	In-Service	Replace the aging 115/13.8 kV 110B transformer with a new 90 MVA transformer.					
Local Reliability	Dec-18	SEMA	Valley Substation #715 - Transformer replacement	In-Service	Replace the 115/23-kV 20 MVA transformer (#1) with a new 50 MVA transformer.					
Local Reliability	Dec-19	NEMA	Replacement of 115 kV 132-538 Line between K St. substation and Deer Island substation	Under Construction	A new submarine 115-kV cable will be installed from K St. substation to Deer Island substation.					
Local Reliability	Jun-20	NEMA	Putnam Station #831 - Transformer addition	Planned	Add a fourth 115/14kV 65.5 MVA transformer. (Interim mitigation plan until Cambridge Station at Fulkerson in-service.					
Local Reliability	Dec-20	SEMA	Rochester Substation #745 - Transformer replacement	Concept	Replace the 115/13.8 kV 12.5 MVA transformer with new 62.5 MVA 115/14-kV transformer.					
Local Reliability	Dec-20	SEMA	Fisher Road Supply Upgrade, 115-kV 4.4 miles line from Cross Road to Fisher Road.	Concept	Install a 2nd 115-kV transmission line.     Construct additional distribution circuit backup.					
Local Reliability	Dec-20	SEMA	Wellfleet Substation #976- Transformer replacements	Planned	Replace two 115/23-kV 26 MVA transformers with 50 MVA transformers.					





	Eversource Local Area Projects - Eastern Massachusetts									
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution					
Local Reliability	2021	SEMA	Medway Substation #65 - Transformer replacement	Planned	Replace the 115/13.8-kV 110A transformer with a 62.5 MVA transformer.					
Local Reliability	2021	NEMA	Carver St. Substation #71 - Transformer replacements	Concept	Replace both 115/13.8-kV 110A and 110B transformers with 90 MVA transformers.					
Local Reliability	2021	SEMA	Tremont Substation #713- Transformer Replacement	Concept	Replace the 115/23-kV 20 MVA transformer with a new 50 MVA transformer.					
Local Reliability	2021	SEMA	Kingston Substation #735 - Transformer replacements	Concept	Replace both 115/23-kV 20 MVA transformers with 50 MVA transformers.					
Local Reliability	2022	NEMA	Maynard Station #416 - Transformer addition	Concept	Add a 115/14-kV 110A transformer with a 62.5 MVA transformer.					
Local Reliability	2022	SEMA	East Eagle Substation #131 - New substation	Planned	Install two 115/13.8-kV 62.5 MVA transformers; relieves Chelsea Sta #488.					





	Eversource Local Area Projects - Eastern Massachusetts								
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution				
Local Reliability	2022	NEMA	Hawkins Street #2 - Transformer addition	Concept	Add a 115/14-kV 110A transformer with a 90 MVA transformer.				
Local Reliability	2022	SEMA	Medway Substation #65 - Transformer Replacement	Planned	Replace the 115/13.8-kV 110B transformer with a 62.5 MVA transformer.				
Local Reliability	2022	SEMA	Falmouth Tap Switching Station Upgrade	Concept	Upgrade Falmouth Tap Switching Station from a 1-breaker series bus arrangement to a 115-kV breaker and a half scheme. Install a 115/23-kV bulk distribution station with one 30/40/50 MVA transformer to address area load growth				
Local Reliability	2022	NEMA	Reconductor 250-516/517 Lines North Washington St Bridge	Concept	The city of Boston is replacing the North Washington St. bridge. The lines will be relocated to the new bridge and reconductored utilizing XLPE cable.				
Local Reliability	2022	NEMA	Andrew Square to Dewar, new 115-kV Line	Proposed	Install new 115-kV transmission line between Andrew Square and Dewar stations to provide alternative source to either station under N-1 contingencies.				
Local Reliability	2023	NEMA	Hawkins Street #2 - Transformer addition	Concept	Add a 115/14-kV 110B transformer with a 90 MVA transformer.				
Local Reliability	2023	NEMA	Maynard Station #416 - Transformer addition	Concept	Add a 115/14-kV 110B transformer with a 62.5 MVA transformer.				
Local Reliability	2023	NEMA	North Burlington – New Substation	Concept	Install first of two 62.5 MVA 115/14-kV transformers.				

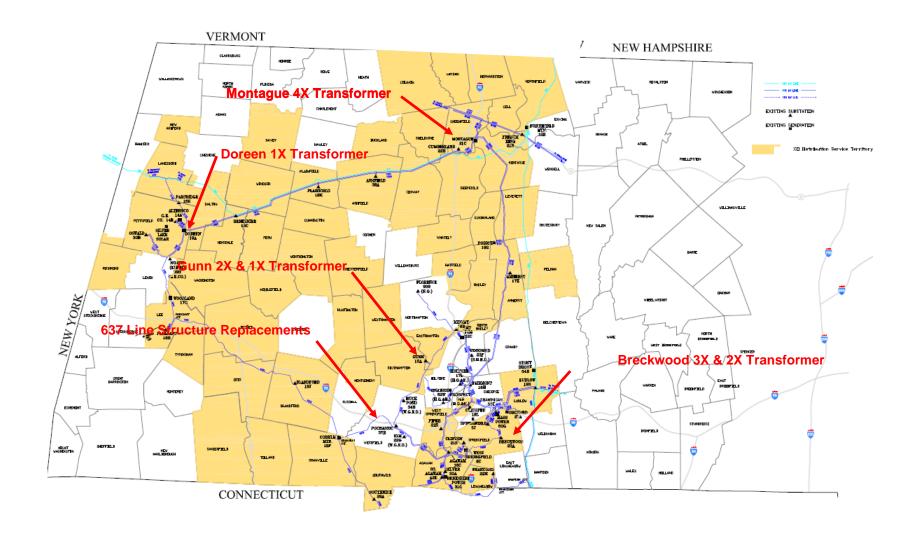




	Eversource Local Area Projects - Eastern Massachusetts									
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution					
Local Reliability	2024	NEMA	Fulkerson - New substation	Proposed	Install three 90 MVA 115/14-kV transformers which will relieve East Cambridge #875, Putnam #831 and Prospect #819. New substation will be supplied via 329-510/511 lines from Brighton which will be replaced with XLPE cables. The existing 831-538 and 875-539 lines will also interconnect with the new substation.					
Local Reliability	2024	NEMA	Hyde Park – New Substation	Concept	Install first of two 75 MVA 115/14-kV transformers.					
Local Reliability	2024	SEMA	Assonet – New Substation	Concept	A double-ended substation with two 62.5 MVA transformers and two 115 kV cables emanating from Bell Rock Substation #661.					
Local Reliability	2024	NEMA	Manomet #721 – Transformer addition	Concept	Add a second 115/23-kV 50 MVA transformer.					



### Western Massachusetts Projects







	Eversource Local Area Projects - Western Massachusetts									
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution					
Local Reliability	Dec-18	Hadley	Gunn Substation - Transformer replacement (Easthampton)	In-Service	Replace existing 2X 115/23-kV 25 MVA transformer with a 62.5 MVA transformer.					
Local Reliability	May-19	Greenfield	Montague Substation - Transformer replacement (Montague)	In-Service	Replace existing 4X 115/13.8-kV 23 MVA transformer with a 62.5 MVA transformer.					
Local Reliability	Dec-19 <b>\$7.3M</b>	Springfield	637 Line Structure Replacements	Under Construction	Replace existing 69 kV structures due to Asset Condition.					
Obsolescence and Reliability	Dec-19	Springfield	Breckwood Substation - Transformer replacement (Springfield)	Under Construction	Replace existing 3X 115/13.8-kV 30 MVA transformer with a 62.5 MVA transformer.					
Local Reliability	Jun-20	Hadley	Gunn Substation - Transformer replacement (Easthampton)	Planned	Replace existing 1X 115/23-kV 25 MVA transformer with a 62.5 MVA transformer.					
Local Reliability	Nov-20	Pittsfield	Doreen Substation - Transformer replacement (Pittsfield)	Proposed	Replace existing 1X 115/23-kV 25 MVA transformer with a 62.5 MVA transformer.					

## Local System Plan – Western Massachusetts (continued)



	Eversource Local Area Projects - Western Massachusetts								
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution				
Obsolescence and Reliability	2021	Springfield	Breckwood Substation - Transformer replacement (Springfield)	Proposed	Replace existing 2X 115/13.8-kV 30 MVA transformer with a 62.5 MVA transformer.				
Obsolescence and Reliability	2021	Springfield	Clinton Substation - Transformer replacement (Springfield)	Concept	Replace existing 3X 115/13.8-kV 30 MVA transformer with a 62.5 MVA transformer .				
Obsolescence and Reliability	2021	Springfield	Breckwood Substation - Transformer replacement (Springfield)	Concept	Replace existing 1X 115/13.8-kV 30 MVA transformer with a 62.5 MVA transformer.				
Local Reliability	2021	Greenfield	Cumberland Substation - Transformer replacement (Greenfield)	Concept	Replace existing 2X 115/13.8-kV 30 MVA transformer with a 62.5 MVA transformer.				
Local Reliability	2022	Greenfield/ Springfield	Fairmont-Montague corridor transmission supply upgrade	Concept	Rebuild the 115-kV transmission lines supplying the Amherst, Tillson, Podick, and Five Corners load pocket. Remove existing Type III Special Protections System.				
Obsolescence and Reliability	2022	Springfield	Clinton Substation - Transformer replacement (Springfield)	Concept	Replace existing 2X 115/13.8-kV 30 MVA transformer with a 62.5 MVA transformer.				
Obsolescence and Reliability	2022	Springfield	Clinton Substation - Transformer replacement (Springfield)	Concept	Replace existing 1X 115/13.8-kV 30 MVA transformer with a 62.5 MVA transformer.				
Local Reliability	2022	Greenfield	Montague Substation - Transformer replacement (Montague)	Concept	Replace existing 3X 115/13.8-kV 23 MVA transformer with a 62.5 MVA transformer.				

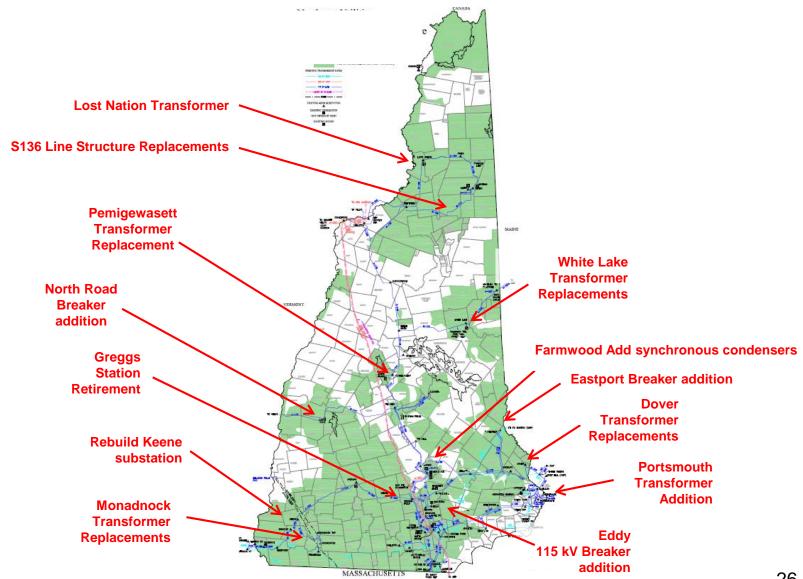




	Eversource Local Area Projects - Western Massachusetts									
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution					
Obsolescence and Reliability	2023	Pittsfield	Pleasant Substation - Transformer replacement (Pittsfield)	Concept	Replace existing 2X 115/13.8-kV 30 MVA transformer with a 62.5 MVA transformer .					
Obsolescence and Reliability	2024	Pittsfield	Woodland Substation - Transformer replacement (Pittsfield)	Concept	Replace existing 1X 115/23-kV 25 MVA transformer with a 62.5 MVA transformer.					
Local Reliability	2024	Springfield	Ludlow Substation - Transformer replacement (Ludlow)	Concept	Replace existing 1X 115/13.8-kV 25 MVA transformer with a 62.5 MVA transformer.					
Local Reliability	2024	Springfield	Silver Substation – Transformer Replacement (Agawam)	Concept	Replace existing 1X 115/13.8 kV 47 MVA transformer with a 62.5 MVA transformer.					



#### **New Hampshire Projects**





#### **Local System Plan – New Hampshire**

	Eversource Local Area Projects - New Hampshire									
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Status	Solution					
Local Reliability	Dec-18 \$23.M	Central	Farmwood Substation - Add Synchronous Condensers (Concord)	In-Service	Add two +25/-12.5 MVAR synchronous condensers at Farmwood Substation.					
Reliability	Jul-19	Northern	Lost Nation Substation - Transformer addition. (Northumberland)	In-Service	Add a second 115/34.5 kV transformer (44.8 MVA) and associated line terminal equipment.					
Reliability	Sep-19	Western	North Road Substation - Breaker additions. (Sunapee)	In-Service	Replace existing 115 kV Circuit Switchers with 115 kV Breakers					
Obsolete Equipment	Sep-19	Central	Greggs Substation - Retire substation (Goffstown)	In-Service	Reconductor the 328, 34.5 kV line, and remove the 115/34.5 kV transformer and associated 34.5 kV equipment at the existing Greggs substation. The 115 kV substation will remain.					
Local Reliability	Dec-19 \$6.2M	Northern	S136 115 kV Line Structure Replacements	Under Construction	Replace existing structures due to Asset Condition.					
Local Reliability	Dec-20 \$5.1M	Eastern	Eastport Substation - Breaker additions (Rochester)	Planned	Add 115-kV breakers to complete ring bus configuration.					
Local Reliability	Dec-20	Eastern	Eddy Substation – 115 kV Breaker addition (Manchester)	Planned	Add a 115-kV breaker.					



## **Local System Plan – New Hampshire** (continued)

Eversource Local Area Projects - New Hampshire									
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Current Status	Solution				
Load Growth/ Reliability	Aug-20	Northern	Pemigewasset Substation - Transformer replacement (New Hampton)	Under Construction	Replace 20 MVA transformer with 62.5 MVA to address overload condition.				
Load Growth/ Reliability	Jul-20	Eastern	Portsmouth Substation - Transformer addition (Portsmouth)	Under Construction	Replace the existing 44.8 MVA transformer with a 62.5 MVA transformer and add a second 62.5 MVA transformer.				
Obsolete Equipment/ Reliability	2021	Western	Emerald St. (Keene) Substation - Rebuild substation and add transformers (Keene)	Under Construction	Rebuild Emerald Street (Keene) Substation equipment with two new 30 MVA transformers and associated switchgear. The existing TB3 transformer (22.4 MVA) at Keene will remain.				
Load Growth/ Reliability	2022	Western	Monadnock Substation - Transformer replacements (Troy)		Replace the existing 115/34.5-kV, 20 & 28 MVA transformers at Monadnock substation with two new 115/34.5 kV, 62.5 MVA transformers.				
Load Growth/ Obsolete Equipment/ Reliability	2022	Eastern	Cocheco St. (Dover) Substation - Transformer replacements (Dover)	Proposed	Replace the existing two 115/34.5-kV, 44.8 MVA transformers at Cocheco Street (Dover) Substation with two new 115/34.5 kV, 62.5 MVA transformers.				
Load Growth and Reliability	2023	Northern	White Lake Substation - Transformer replacements (Tamworth)	Proposed	Replace the existing two 115/34.5-kV, 28 MVA transformers at White Lake substation with two new 115/34.5 kV, 62.5 MVA transformers.				
Load Growth and Reliability	2023	Southern	South Milford Substation - Transformer addition (Milford)	Concept	Add a second 115/34.5 kV transformer at South Milford substation. Transformer to be a 62.5 MVA unit.				



## **Local System Plan – New Hampshire** (continued)

Eversource Local Area Projects - New Hampshire									
Need	Projected ISD Month/Year (Cost >\$5M dollars)	Project Area	Project	Current Status	Solution				
Load Growth and Reliability	2023	Northern	D142 115-kV Line Rebuild and Asset Condition Project	Concept	Rebuild the aging 115-kV line with larger conductor.				
Load Growth and Reliability	2023	Northern	O154 115-kV Line Rebuild and Asset Condition Project	Concept	Rebuild the aging 115-kV line with larger conductor.				





Please provide any written comments for consideration by November 21, 2019 (as defined in the ISO-NE Open Access Transmission Tariff Section II – Attachment K Appendix 1 [Attachment K – Local], section 1.4).

#### **Digaunto Chatterjee**

Director, System Planning Eversource 56 Prospect Street Hartford, CT 06103

Phone: (860) 728-4832

email: digaunto.chatterjee@eversource.com



# Thank you for participating in the Eversource LSP Presentation.

Questions?