

Vermont's Local System Plan

November 16, 2026

TOPAC Meeting

Presenter: Frank Ettori

Vermont's Local System Plan

- Required by Attachment K
  - The LSP, or Local System Plan, addresses non-PTF transmission (115 kV or greater) and subtransmission facilities (69, 46, or 34.5 kV)
    - Attachment K requires stakeholder input on LSP
  - Several companies own and operate Non-PTF facilities in VT
    - Two largest utilities are
      - Green Mountain Power (GMP)
      - Vermont Electric Coop (VEC)
  - The VT LSP is posted to the VELCO Planning website (link below):
    - https://www.velco.com/planning
  - Vermont has both networked transmission and underlying subtransmission networks
    - Some LSP projects have RSP elements and vice versa
    - LSP considerations for those types of projects are noted here

Project Status Definitions

This presentation describes projects that are at different maturity levels

Concept	**Project is under consideration as a possible solution to a need, but little or no analysis is available**
Proposed	**The local distribution utility or VELCO has determined that the project is an appropriate solution to a need, but a budget has not yet been approved, or the project has not yet obtained Proposed Plan Approval (PPA or I.3.9 Approval) from ISO-NE**
Planned	**I.3.9 Approval has been obtained or a budget has been approved**
Permitting	**Project is in the permitting stage**
Under Construction	**Project is under construction**
In-Service	**Project is complete**

List of Vermont LSP Projects

Items in red are new or have been updated

Project Name	Project proponents / low voltage system	Critical Load Level	Current Status (Projected in-service date)	LSP Elements
Newport T1	VELCO/VEC	N/A	Complete (2026)	120/46 kV Asset Condition
St Johnsbury Substation	VELCO/GMP	N/A	Complete (2026)	115/34.5 kV Asset Condition
Tafts Corner Transformer	VELCO/GMP/VEC	N/A	Complete (2026)	2nd 115/12.5 kV transformer

List of Vermont LSP Projects

Project Name	Project proponents / low voltage system	Critical Load Level	Current Status (Projected in-service date)	LSP Elements
Windsor Substation	VELCO/GMP	N/A	Planned (2028)	115/46 kV Asset Condition
Global Foundries sub #86	VELCO/GF	N/A	Concept (2028)	115/13.8 kV Asset Condition
South Hero Substation	VELCO/VEC	N/A	Concept (2029)	115/13.2 kV Asset Condition
East Fairfax Substation	VELCO/GMP/VEC	N/A	Concept (2030)	115/34.5 kV Asset Condition
Cold River Substation	VELCO/GMP	N/A	Concept (2030)	115/46 kV Asset Condition

Individual Project Info

REPEATED FROM LAST YEAR



Windsor substation refurbishment

- New control building
- New protection and control system
- Replace 46 kV oil circuit breakers
- Replace 115 kV circuit switcher
- Replace the substation fence
- Replace station service
- Install transformer secondary oil-containment system
- Upgrade telecommunication, security, and monitoring systems
- Cost Estimate
  - $21M with 20% contingency

Contact Information

- Questions on this presentation:

Frank Ettori

Director – ISO-NE/NEPOOL Relations and Power Accounting

VELCO

366 Pinnacle Ridge Road

Rutland, VT 05701

(802) 236-6911