

V S P C

Vermont System
Planning Committee

All grid solutions considered

Quarterly Meeting
Courtyard Marriott
Middlebury, VT
April 27, 2016
9:30am–4:00pm

Agenda

▶ Morning

- ▶ Subcommittee reports
 - ▶ Geographic Targeting
 - ▶ Forecasting
 - ▶ Public Participation
- ▶ VSPC evolution
- ▶ Regional updates
 - ▶ VELCO
 - ▶ ISO New England

▶ Afternoon

- ▶ Presentations
 - ▶ Storage
- ▶ Policy & project updates
 - ▶ Legislative update
 - ▶ RES/Docket 8550
 - ▶ Net metering
 - ▶ Interconnection
 - ▶ VT Weather Analytics Center
- ▶ Reliability updates

Geographic Targeting Subcommittee

John Woodward, oral update

Subcommittee work this quarter

- ▶ Met Feb 10 for update from GMP on the Hinesburg area, leading to VSPC support of GMP request for extension to fine reliability plan in October
- ▶ Two joint meetings with Forecasting for work on VSPC evolution: March 9, April 5
- ▶ Next steps:
 - ▶ Late May meeting to review identified reliability issues NTA/NWA screenings as part of annual process under Docket 7874 Screening Framework
 - ▶ If any issues “screen in” further analysis needed this summer for October recommendations to VSPC

Forecasting Subcommittee

Carole Hakstian, oral update

Forecasting subcommittee update

- ▶ Forecasting met twice jointly with Geotargeting to discuss VSPC evolution: March 9, April 5
- ▶ Next steps are highly dependent upon completion of Docket 8550—Renewable Energy Standard implementation
 - ▶ Future work plan will be clarified as 8550 outcomes become clear and...
 - ▶ As load forecasting begins for next VT Long-Range Transmission Plan cycle

Coordinating Subcommittee

Membership update

2016-2017 meeting dates

Membership update

- ▶ Membership developments:
 - ▶ Hervey Scudder, residential rep is stepping down
 - ▶ Checking on status of residential alternate seat
 - ▶ Environmental alternate position vacant since Gabrielle Stebbins' departure
- ▶ Next step: ensuring Board is informed of vacancies
 - ▶ Board will solicit letters of interest and request input from VSPC and stakeholders
 - ▶ Input can be collective or individual
 - ▶ Discussion of solicitation and input process

2016-2017 meeting dates

2016 dates:

- ▶ July 20, 2016—Middlebury
- ▶ October 19, 2016—Rutland

Proposed 2017 dates:

- ▶ January 25, 2017
- ▶ April 26, 2017
- ▶ July 19, 2017
- ▶ October 18, 2017

VSPC evolution

- ▶ Two joint meetings of Forecasting and Geographic Targeting Subcommittees
- ▶ Reviewed staff-prepared background paper (posted with meeting materials)
- ▶ Extensive discussion about history and purpose
- ▶ Product prepared for discussion at this meeting: draft VSPC charter
 - ▶ Two versions included in material: a clean version of draft 2 and extensive comments on draft 2 that have not yet been incorporated pending discussion at full VSPC (both versions incorporated into one PDF)



Regional update

Mark Sciarrotta, VELCO

Eric Johnson, ISO New England

Molly Connors, ISO New England

Regional reports

VELCO

- ▶ Update on ROE cases
- ▶ RNS treatment for PTF components of projects addressing local needs

- ▶ Update memo included with meeting materials

ISO New England

- ▶ Separate slide deck included with meeting materials

ROE: Return on Equity
RNS: Regional Network Service
PTF: Pooled Transmission Facility



Presentation:
VELCO Grid Storage Study

Hantz Pr sum , VELCO

See presentation in meeting materials

NOTE: there are currently no presentations associated with these updates.

Policy & Project Updates

Legislative: Shana Louiselle, VELCO

RES/Docket 8550: Dave Westman, VEIC

Net metering: Melissa Bailey, VPPSA

Interconnection Rule: Carolyn Anderson, GMP

VT Weather Analytics Center: Kerrick Johnson, VELCO

NOTE: there are currently no presentations associated with these updates.

Project reports

VELCO: CT River Valley, Northern Area,
PV-20, Structure Replacement Project

GMP: Rutland, Hinesburg



Regional Projects

Hantz Pr sum , VELCO

New England Clean Energy RFP— MA, RI, CT

- ▶ 2013 governors announced need for strategic infrastructure investment to fulfill renewable energy goals and aspirations
- ▶ Nov. 2015 MA, RI, CT and utilities issued RFP for clean energy and transmission
- ▶ Jan. 2016 two dozen bids submitted
- ▶ Next steps:
 - ▶ Apr. 16-Jul. 26, 2016—selection of bidders
 - ▶ Jun. 23-Sep. 22, 2016—Electric Distribution Companies (EDCs) execute contracts
 - ▶ Jul.26-Oct. 25, 2016—Contracts submitted for regulatory approval
 - ▶ EOY 2016—regulatory approval

Notable RFP submissions

Northern Pass (Eversource): 1,090 MW HVDC transmission project; \$1.6B cost; in service date of May 2019

Vermont Green Line (Anbaric, others): 400 MW of around-the-clock clean energy and RECs from wind and hydro (bundled) energy. Approximately 40 miles of HVDC line under Lake Champlain, delivering to VELCO's New Haven substation; in service by end of 2019; \$600 million cost (transmission) and \$880 million (wind)

Clean Energy Connect (Eversource, others): 600 MW proposal including six new NY wind facilities coupled with NY hydro; transmission in NY and MA.

Evergreen Express (NextEra, others): new wind, battery storage, and solar in western Maine plus 114 mile 345 kV transmission project.

Notably absent: TDI-NE Clean Power Link

Link to NE Clean Energy RFP: <http://cleanenergyrfp.com/>

ISO-NE interconnection study update

- ▶ Northern Pass (NH)
 - ▶ System impact study nearly complete
- ▶ Vermont Green Line
 - ▶ System impact study nearly complete
- ▶ Clean Energy Connect (MA)
 - ▶ System impact study has just started
- ▶ Evergreen Express (ME)
 - ▶ No info
- ▶ New England Clean Power Link
 - ▶ System impact study is 40% complete
 - ▶ Study completion expected in July
- ▶ Swanton Wind
 - ▶ System impact study has just started