

V S P C

Vermont System
Planning Committee

All grid solutions considered

Quarterly Meeting

April 30, 2014

9:30 a.m.–4:00 p.m.

Doubletree Hotel

South Burlington, VT

Agenda & proposed order of business

Morning


- ▶ Welcome & introductions
- ▶ Approval of Dec & Feb minutes
- ▶ Subcommittee reports
 - ▶ Geographical Targeting
 - ▶ Forecasting
 - ▶ Coordinating
 - ▶ Public Participation
- ▶ Regional update
 - ▶ New England Infrastructure Initiative & power import alternatives
 - ▶ Forward Capacity Market redesign cost implications
 - ▶ Capacity zone modeling
 - ▶ Status of ISO-NE VT/NH needs study update
 - ▶ DG Forecast Working Group update

Afternoon

- ▶ Complete regional update
- ▶ Project updates
 - ▶ Project-specific action plans
 - ▶ Rutland (GMP)
 - ▶ St.Albans/East Fairfax (GMP)
 - ▶ Distribution reliability plans (per 7873)
 - ▶ St.Albans distribution issue (GMP)
 - ▶ Screened out projects
 - ▶ VELCO:
 - Newport Substation Upgrade NTA screening
 - CT River
 - Northern Area (VELCO/VEC)
 - PV-20
 - IBM area (VELCO/GMP)
 - ▶ GMP:
 - Colchester
 - Hartford/Ascutney

Agenda link:

http://www.vermontspc.com/library/document/download/4351/2014_04_30_vspegenda.pdf



Geographical Targeting Subcommittee

This quarter's activities

- ▶ Meeting scheduled for May 13 to review DU screening of system constraints per revised geotargeting process.
 - ▶ Results of review to be presented at July VSPC meeting, initiating next steps in GT process.
- ▶ No new transmission constraints identified by VELCO.
 - ▶ 2014 long-range plan cycle may identify new transmission or sub-transmission issues. (See later agenda item.)
- ▶ Next product: checklist to aid affected utilities in compliance with geotargeting requirements.
- ▶ Public Service Dept has funding for GT impact evaluation. Subcommittee provided input on scope and methodology.
 - ▶ PSD will next frame research questions leading to scope of work.

Reliability plan status reviews

- ▶ GMP presented St. Albans reliability plan draft (subsequently filed 4/2/14, comments due to PSB 5/1/14). (See project updates.)
- ▶ GMP reviewed Rutland reliability plan status (subsequently filed 4/2/14 with PSB extension to address potential CEII). (See project updates.)
 - ▶ Alternatives analysis cannot proceed until availability of a breaker position at West Rutland Substation is known.
 - ▶ Subcommittee urged proceeding with energy efficiency potential analysis in the meantime to provide maximum time for implementation.
- ▶ May 13 meeting scheduled to review DU system constraints. DUs asked to share their screening of all identified issues. Details: 1-4 p.m., 5/13/14, at VEIC.



Forecasting Subcommittee

This quarter's activities

- ▶ Met twice: Jan 30, Mar 19.
- ▶ Reviewed and provided feedback on VELCO load forecast timeline.
- ▶ Discussed subcommittee goals for 2014.
 - ▶ Consistency of process & assumptions across utilities for dealing with new technologies such as net metering, electric vehicles, heat pumps.
 - ▶ Input to long-range plan load forecast.
 - ▶ Means to share historical data in a useful, flexible manner that avoids risks of version control and inaccuracy of postings.
- ▶ Reviewed preliminary CELT forecast and assumptions.
See: http://www.iso-ne.com/committees/comm_wkgrps/reblty_comm/ldforfst_comm/
- ▶ Reviewed data on impact of electric car penetration on forecast.
See: <http://www.vermontspc.com/library/document/download/322/DerivedElectricCars.xlsx>
- ▶ May meeting: Itron to meet with subcommittee to discuss Vermont load forecast in preparation for 2015 long-range plan update.

VELCO VT load forecast timeline

Tasks	Date
1 Complete Database Update	30-Apr
2 Estimate Class Sales and Peak Models	16-May
3 Finalize Basecase Forecast Assumptions	30-May
4 Complete Preliminary Forecast	9-Jun
5 Present Preliminary Forecast Results	16-Jun
6 Estimate Zonal Load Models	30-Jun
7 Complete Preliminary Zonal Forecast	11-Jul
8 Complete Preliminary Fcst Doc	31-Jul
9 Update Forecast	1-Oct
10 Complete Scenarios	1-Oct
11 Complete Final Report and Presentation	31-Oct

GMP Integrated Resource Plan timeline

PROPOSED MILESTONES IN THE 2014 IRP PROCESS

TASK	FOCUS & PLANNING MILESTONE	DATE	WEEKS
1	<u>Load Forecast</u> : Methodology, Inputs & Assumptions	Friday March 14 th	9
	<u>Load Forecast</u> : Results – Review High, Base & Low Cases	Friday April 18 th	
2	<u>Methodology</u> : Price Forecast & Portfolio Planning	Friday May 16 th	8
	<u>Methodology</u> : T&D Capital Forecast & Planning	Friday June 13 th	
3	<u>Initial Insights</u> : Portfolio Planning	Friday July 18 th	9
	<u>Initial Insights</u> : T&D Planning	Friday August 15 th	
4	<u>Review</u> : Draft IRP Sections: Content To Be Determined	Friday September 19 th	9
	<u>Review</u> : Send Complete IRP to PSD for Review.	Friday October 17 th	
5	<u>File</u> : 2014 IRP is filed with the PSB.	Friday November 21 st	5
		Total	40

- Completion date of GMP's load forecast is several weeks ahead of VELCO's proposed preliminary load forecast.
- GMP has contracted with Itron to prepare load forecast



Coordinating Subcommittee

2014 meeting dates

2015 meeting date discussion

Future meeting dates

- ▶ July 23, 2014 Quarterly meeting
9:30am-4:00pm Capitol Plaza, Montpelier
- ▶ Oct 8, 2014 Quarterly meeting
9:30am-4:00pm Holiday Inn, Rutland
- ▶ Jan 28, 2015 Quarterly meeting
9:30am-4:00pm Langevin House, VT Tech, Randolph

- ▶ Discussion of 2015 dates



Public Participation Subcommittee

VSPC website redesign

Tour of VELCO for new VSPC members & others

Redesigned VSPC and VELCO websites “soft” launch 3/16/2014

- ▶ URL remains the same: <http://www.vermontspc.com>
 - ▶ velco.com, vermonttransco.com, opcom.velco.com and VELCO Board of Directors also redesigned
- ▶ Input at three stages by Public Participation Subcommittee: pre-design; conceptual design; beta site.
- ▶ Redesigned to improve experience of both audiences:
 - ▶ Public information
 - ▶ Support of VSPC process and participants
- ▶ Significant improvement in usability and reduction in cost (\$30k to \$6k for all three VELCO-managed external sites)

Accessing meeting materials

No login required unless/until CEII or other confidential material is posted. At that time, click the login button at the top right, enter your user name (first initial, lastname, e.g., "jdoe"), and click "I forgot my password" to receive a link to set your password. Participants who have signed a non-disclosure agreement will be able to login and view CEII in this manner.

The screenshot shows the VSPC website interface. At the top, there is a navigation bar with links for 'Logout', 'Calendar', and 'Contact Us'. Below this is a header with the VSPC logo and the tagline 'All grid solutions considered'. A secondary navigation bar contains buttons for 'VSPC Meetings', 'Subcommittees', and 'Library'. A main menu below the header includes 'About', 'Grid Planning', 'VSPC at Work', and 'Get Involved'. A search bar is also present. The main content area features a large graphic with icons representing various energy and grid-related concepts, and a headline about Vermont's Electric Grid. Several blue callout boxes with white text point to specific website features: 'Shortcut to quarterly meeting information' points to the 'VSPC Meetings' button; 'Shortcut to calendar' points to the 'Calendar' link; 'Menu of VSPC work & archive' points to the 'VSPC at Work' menu item; 'Shortcut to subcommittee information' points to the 'Subcommittees' button; and 'Shortcut to document library' points to the 'Library' button.

Scheduling a tour of VELCO

- ▶ A public member suggested organizing a tour and overview of VELCO as part of orientation.
- ▶ Potential dates:
 - ▶ May 14 a.m.
 - ▶ May 28 a.m.
 - ▶ May 30 (am/pm)
 - ▶ June 13 (am/pm)
- ▶ Agenda: tour of facility in Rutland, overview of VELCO and regional transmission system.
- ▶ Interest? Best dates? What other orientation would be helpful?

2015 Vermont Long-Range Transmission Plan Update

Development & Public Outreach Timeline

Plan update timeline & process

DRAFT SCHEDULE FOR 2015 VERMONT LONG-RANGE TRANSMISSION PLAN UPDATE

Objectives: This schedule is designed to produce a 2015 Vermont Long-Range Transmission Plan (LRTP) that meets the requirements of 30 V.S.A. 218c and the Docket 7081 Memorandum of Understanding; provides effective information to the public about the load forecast, system reliability, and possible system upgrades; supports full, fair and timely consideration of cost-effective non-transmission alternatives; and is as fully coordinated with ISO-NE’s system assessment as possible.

	Milestone	Timeframe
1	In conjunction with VSPC Forecasting Subcommittee, work with Eric Fox/Itron on model for initial Vermont forecast, incorporating net metering, DG, etc.	1/30/14—4/30/14
2	Seek DU input on <u>subtransmission</u> issues	3/1/14—6/30/14
3	Obtain input from VSPC Plan scope	7/1/14—7/31/14
4	ISO-NE 2023 VT/NH needs assessment and solutions report finalized	9/30/14
5	Complete initial VT load forecast	9/30/14
6	Prepare draft plan with ISO-NE coordination	9/30/14-12/31/2014
7	Conduct sub-transmission and years 11-20 analysis (VELCO in-house)	8/1/14-10/1/14
8	Update load forecast with VSPC, DPS, EVT	11/30/14
9	Issue VSPC draft	1/2/15
10	VSPC input period	1/2/15—3/30/15
11	Incorporate VSPC input	3/30/15—4/20/15
12	Issue public draft	4/20/15
13	Public input period (including public hearings)	4/20/15—6/1/15
14	Incorporate public input	6/1/15—6/30/15
15	Submit final plan to PSB and DPS	7/1/15

http://www.vermontspc.com/library/document/download/4359/2014_04_30_Irtpschedule.pdf

Regional/ISO-New England Updates

New England Infrastructure Initiative
& power import alternatives

Forward Capacity Market redesign cost implications

Capacity zone modeling

Status of ISO-NE VT/NH needs study update

DG Forecast Working Group update

Materials for this agenda item

- ▶ VELCO Regional report to the VSPC
 - ▶ http://www.vermontspc.com/library/document/download/4360/2014_04_30_regionalreport.pdf
- ▶ VELCO regional infrastructure initiative presentation.
 - ▶ Presentation may be updated prior to the meeting to incorporate new/recent developments.
 - ▶ http://www.vermontspc.com/library/document/download/4355/2014_04_30_infrastructurearticles.pdf
- ▶ Press coverage of infrastructure initiative and related developments
 - ▶ http://www.vermontspc.com/library/document/download/4355/2014_04_30_infrastructurearticles.pdf



Project Updates

Materials for this agenda item

▶ GMP Rutland reliability plan (4/2/14)

- ▶ <http://www.vermontspc.com/library/document/download/4357/Rutland-Area%20Deficiency%20Study%20and%20Reliability%20Update%20FINAL%284-2-14%29.pdf>
- ▶ <http://www.vermontspc.com/library/document/download/4358/Rutland%20Area%20Deficiency%20Study%20and%20Reliability%20Plan%20Results%20Table.pdf>

▶ GMP St. Albans reliability plan (4/2/14)

- ▶ http://www.vermontspc.com/library/document/download/4354/SA_Reliability_Plan_02072014_FINAL.pdf

▶ VELCO Newport Substation NTA screening

- ▶ http://www.vermontspc.com/library/document/download/4352/2014_04_30_NewportNTAScreening.pdf

▶ VELCO CT River Valley (to follow)

▶ VECCO PV 20 (to follow)