

NON-TRANSMISSION
ALTERNATIVES
ASSESSMENT FOR THE
ASCUTNEY RELIABILITY
PROJECT

PUBLIC EXECUTIVE SUMMARY

PREPARED FOR

Vermont Electric Power Company

PREPARED BY

La Capra Associates, Inc.

One Washington Mall, Boston, MA 02108

70 Center Street, Portland, ME 04101

277 Blair Park Rd, Williston, VT 05495

Consultant Report

April 28, 2011

I. EXECUTIVE SUMMARY

Vermont Electric Power Company (“VELCO”) retained La Capra Associates, Inc. (“La Capra Associates”) to evaluate possible non-transmission alternatives (“NTAs”) to the Ascutney Reliability project, a proposed substation and other ancillary transmission upgrades in Ascutney, VT. La Capra Associates developed the following Alternative Resource Configurations (“ARCs”) that could serve as NTAs over the 2013 to 2025 planning horizon for this project.

- ARC 1: Distributed Generation in the form of 5 MW peaking units as needed over the 13 year time horizon. Exclude the existing Ascutney generating unit as an NTA resource.
- ARC 2: Distributed Generation in the form of 5 MW peaking units as needed over the 13 year time horizon. Include the existing Ascutney generating unit as an NTA resource.
- ARC 3: Distributed Generation in the form of 10 MW peaking units as needed over the 13 year time horizon. Include the existing Ascutney generating unit as an NTA resource.
- ARC 4: Distributed Generation in the form of 1 MW peaking units as needed over the 13 year time horizon. Include the existing Ascutney generating unit as an NTA resource.
- ARC 5: Estimated Combined Heat and Power (“CHP”) plus Distributed Generation in the form of 5 MW peaking units as needed over the 13 year time horizon. Include the existing Ascutney generating unit as an NTA resource.

This evaluation was also performed with and without consideration of potential out-of-market generation costs as well as with and without contingency costs included in the capital costs of the proposed transmission additions.

We conclude from this data that the transmission solution has a significantly lower cost than any NTA scenarios studied with or without PTF treatment and with or without contingency included in the cost of the transmission solution.