

Operating Committee meeting

May 19, 2011 meeting

# **ISO-NE VT/NH 10-YR STUDY**

# Study Update

- Completing Solutions study
  - Evaluating Deerfield-Webster and Deerfield-Webster-Coolidge options
  - Considering longevity of options with similar costs
  - Conducting other studies, e.g. short circuit, light load
- Additional NTA results will be presented at the May 26th PAC meeting
- Final T&D solutions will be presented at the PAC meeting in July

# Leading Candidates for Preferred Transmission Solutions

- Southeast VT/Southwest NH
  - 115 kV line upgrades in southwest NH with 75 MVAR capacitor bank at Amherst 345 kV
    - Evaluating the Deerfield-Webster-Coolidge 345 kV line as an option
- Connecticut River & Central Vermont
  - K-31 (Coolidge-Ascutney) line upgrade with capacitors at Ascutney, Breakers at Chelsea and second auto at Coolidge
    - K-31 may be a second line as opposed to a line rebuild
  - Second 115 kV line between Coolidge and West Rutland
    - Alternative to second 350 line or rebuild of parallel 115 kV lines
- Proposing to build new lines at 345 kV may operate initially at 115 kV

# Leading Candidates for Preferred Transmission Solutions

- Northern VT
  - 115 kV capacitor banks at Jay
- Northwest VT
  - 115 kV line rebuild from West Rutland to Tafts Corner (approximately \$200M, with 50% contingency)
  - Being able to bring in 100 MW across PV-20 will be evaluated as an alternative to avoid these upgrades

# PV-20 Flow as a Market Response

- Need to take steps to obtain guarantee of PV-20 flow
  - ISO-NE will not be a party to a market transaction
  - Physical and market constraints need to be resolved
- Physical constraints
  - Separate 230 kV lines (still exposed to N-1-1 loss of the 230 kV lines)
  - Restore SPS to protect VT against N-1-1 loss of 230 kV lines
- Market constraints
  - Capacity contract between what parties?
    - Saranac and some VT DUs?
    - Saranac and VELCO with cost allocation to all DUs?
  - Would another type of contract meet ISO-NE's needs?
  - Do we need a P Node at Plattsburgh?
  - Does ISO-NE need to schedule PV-20 flows separate from NY-NE ties?