



Efficiency's Role in VELCO's Transmission Planning and Regional Advocacy Work

> Hantz Présumé Principal Engineer

Kerrick Johnson VP – Communication & Strategy

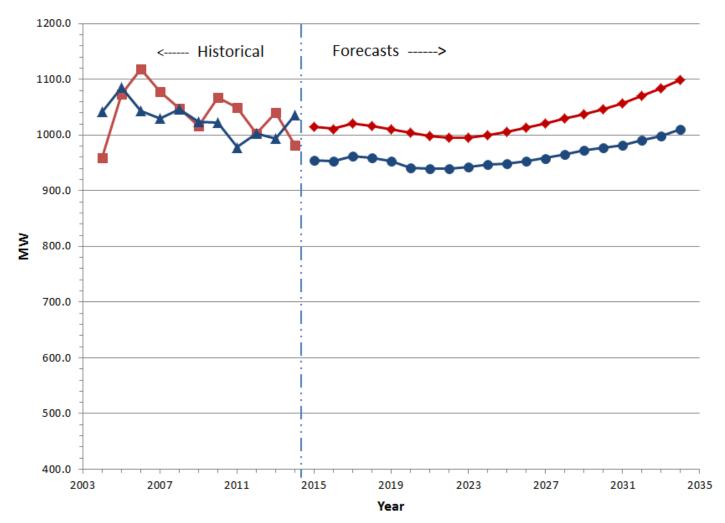
The short story

- Energy efficiency represented about 70 percent of the incremental resources that deferred nearly \$400M of upgrades.
- ISO-NE includes future energy efficiency gains based on states' long-range policy.
- ISO-NE's and VELCO's current forecasts reveal flat peak load growth and thus require few transmission upgrades —but are dependent in part on continued efficiency investment
- Forecasting is in flux but mandatory reliability standards may drive more proposed upgrades
- Regional transmission costs will continue to rise \$6.5 billion since 2002; approximately \$4.5 billion planned
- Vermont benefits from long-term energy efficiency policy stability



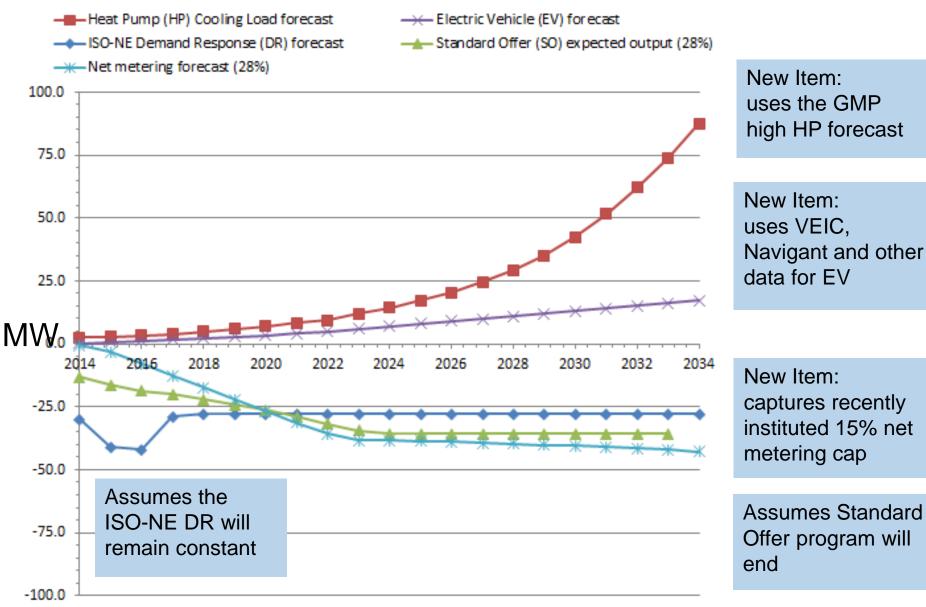
The load forecast







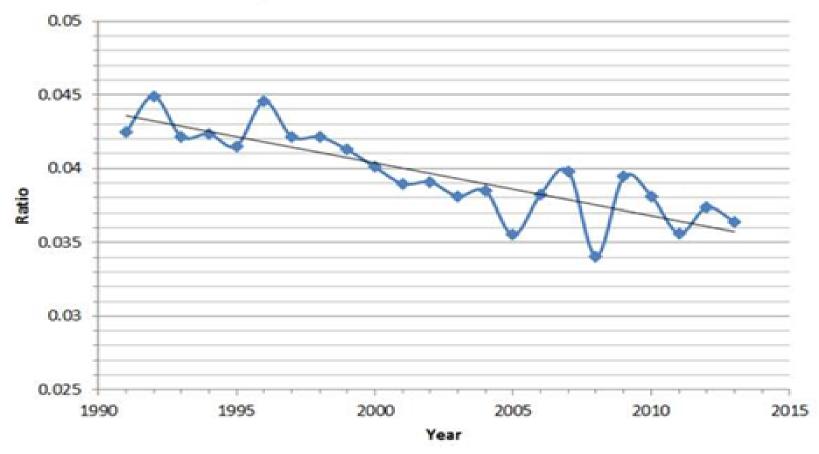
Separate forecast generated for these items





Vermont's coincident peak dropping

Ratio VT/ISO coincident Summer Peak





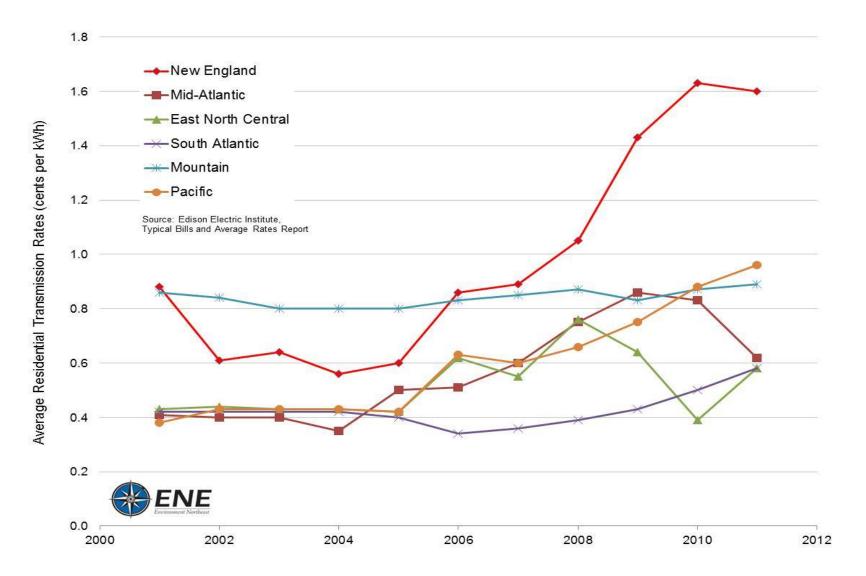
Regional Grid Operator: ISO-New England



- Approximately \$6.5 billion in transmission investment since 2002; approximately \$4.5 billion planned
- Population 14 million
- Approximately 350 generators
- Approximately 31,000 MW of total generation for 2014
- Over 8,500 miles of transmission lines
- Total Market value in 2013: \$8.82 billion



Costs: New England vs. Rest of U.S.







2015 strategic plan Champion initiative update

Champion an energy future aligned with Vermont interests – <i>Team Vermont</i>	Actions that advance the initiative
 Champion an energy future aligned with Vermont values Infuse critical decisions with Vermont values and interests Define success in local and regional terms Recognize the essential importance of stakeholders' understanding and reflect their input as far as possible at all stages Drive solutions that move the region forward in policy and practice 	 <u>NE Governors' Infrastructure Initiative advocacy</u> Significant impact on regional discussion, including incorporation of NTA and cost control dimensions Ultimate demise of proposal <u>Increased cost control measures in regionally funded projects</u> Delivered VT message on NTAs and transmission cost estimation Advocating new PP4 language for greater cost adherence Expanded stakeholder coalition including: VEIC, HQ, DPS (and CLG), and Synapse Advocated 30/70 region-state cost allocation for Order 1000 public policy projects <u>Greater consideration for distributed renewables in planning</u> DG Forecast Working Group progress ISO-NE movement toward incorporation in FCM 10 Vermont Weather Analytics Center Project

