

# SHEI UPDATE

Draft for Discussion  
VSPC Meeting 7-18-2018

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- ▶ Estimating Capital Cost of Potential Solutions identified in the Northern VT Export Study
  - ▶ SHEI working group has developed capital estimates for discrete solutions
    - ▶ Initial estimates have varying levels of certainty; expect estimates to evolve through screening process.
  - ▶ Working to refine costs & characteristics of battery storage solution
    - ▶ Net costs/benefits will depend on sizing, configuration, services it could provide, economic life
- ▶ Benefits of increasing line thermal rating(s)
  - ▶ To what extent will this low-cost measure increase SHEI thermal limits?
- ▶ Anticipated Steps
  - ▶ Continue to refine capital estimates.
  - ▶ Initial screening of potential solutions (individually or in combinations that could work together)
  - ▶ Method(s) to estimate benefits of applying potential solutions
    - ▶ Net power cost impact to Vermont DUs (reduced curtailment of existing sources; reduced LMP congestion)

- ▶ Sheldon Springs AVR
  - ▶ GMP is moving forward implementing project, in collaboration with plant owner Enel
  - ▶ A partial solution
    - ▶ NVT Export Study estimates ~27 MW interface benefit “all lines in”
    - ▶ Much less benefit in some line outage conditions
  - ▶ GMP assessment: relatively low-cost, quick to implement
    - ▶ Low potential regrets. Makes sense to pursue now, before all potential solutions are evaluated
  - ▶ Planned in-service date by Winter 2018