Efficiency Vermont

Vermont System Planning Committee

July 17, 2019

Efficiency Vermont's Focus

After a near 20 year history, Efficiency Vermont needs to evolve. In 2019, we began that evolution in two ways:

1. Increase statewide benefits by helping partners succeed
2. Address emerging energy system challenges

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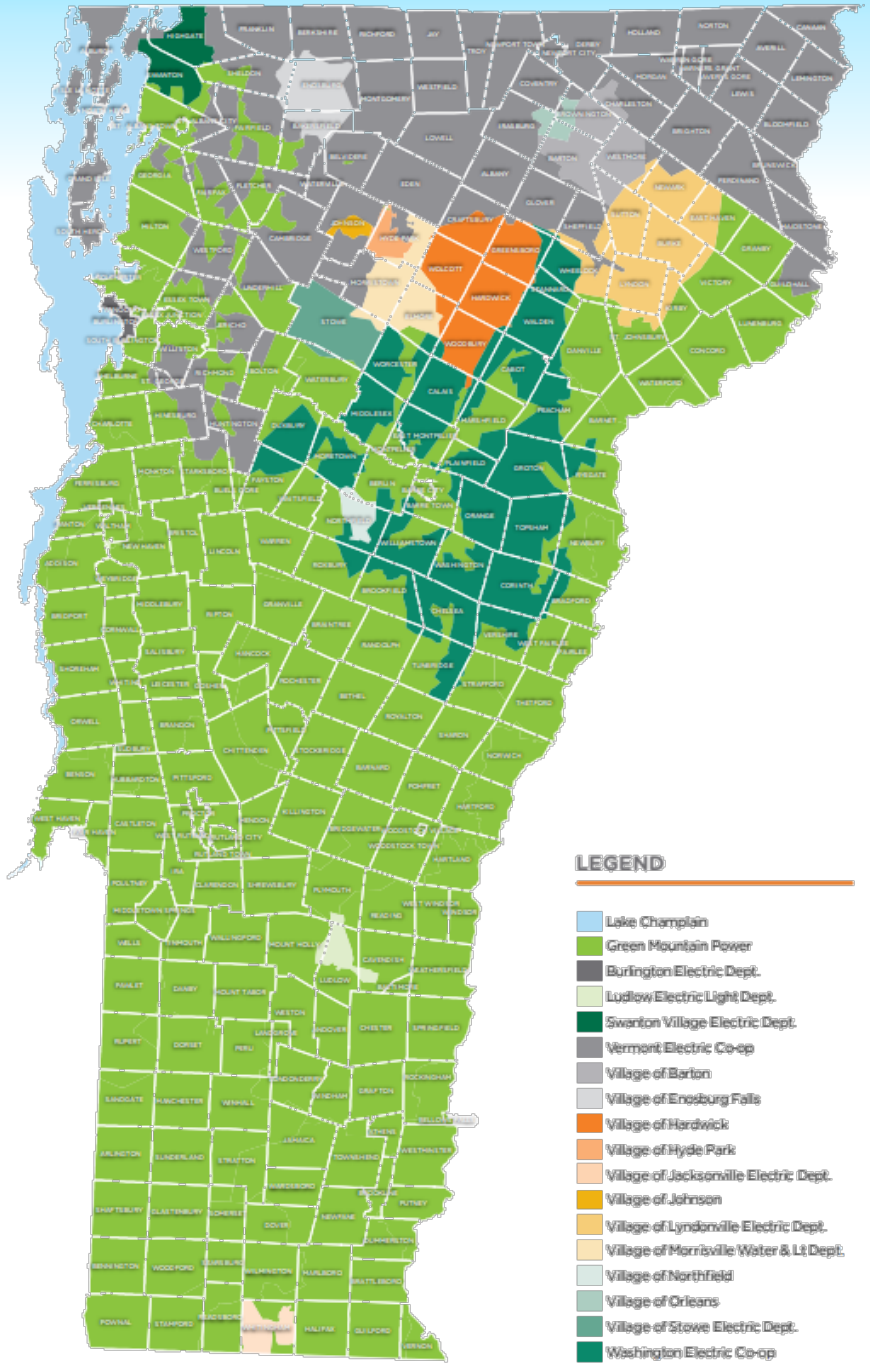

How We Got Here

Utility Listening Tour (2017)

- Common values
- EVT's role
- Rapidly changing energy system
- Not acting quickly enough

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Increase Statewide Benefits by Helping Partners Succeed

- Goal
  - Work together to serve Vermonters
  - Integrated, not independent
- Our Approach
  - Shift in internal culture
  - Operational efficiency
  - Changes in business process, e.g., opening up infrastructure to others

Partners:

✓ Distribution utilities
✓ Weatherization agencies
✓ Regional planning commissions
✓ Energy advocates
✓ Energy committees
✓ Regional development corporations
✓ Housing organizations
✓ Supply chain (OEMs, distributors, contractors)

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Examples: Helping Partners Succeed

Technology and Supply Chain Development

Measure identification and characterization
Supply chain development (EEN, Product availability, Midstream platform)

Technical Expertise and Program Design

Program design (CCHP, Targeted low income, Weatherization bundling)
Technical project analysis (Tier III + Efficiency)
Customer insights (Energy objectives, Project opportunities, Operations)
Cooperative marketing (Content + Cross-links)

Collaborative Service Delivery

Beneficial electrification + Efficiency projects
Community targeting (Partner with towns, businesses, residents, utilities)
Regional implementation planning (RPCs, DUs, DPS, EVT)
Business recruitment offers (RDCs and ACCD for economic vitality)

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Address Emerging Energy System Challenges

- Goal
  - Help Vermont reduce GHG while maintaining low energy costs for all Vermonters
- Our Approach
  - Strong regulatory involvement to ensure we are within bounds
  - Creative approach to pilot design
  - Training in new areas, e.g., FLM

Challenges:

- ✓ Some MWh are “bad”
- ✓ Some MWh are “good”
- ✓ Time and location of energy use will matter
- ✓ Changing electric peaks
- ✓ Vermont duck curve
- ✓ SHEI
- ✓ Thermal, transportation sectors are largest sources of GHG

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Examples: Emerging Energy System Challenges

Enable Load Flexibility for the DUs

Residential equipment control (WEC water heater pilot)

Residential behavioral pilot (Aries/Sense messaging)

C&I equipment control (GMP FLM pilot)

C&I behavioral pilot (BED Defeat the Peak)

Beneficial Electrification + Energy Savings + GHG reduction

Refrigeration (Leak repair and natural refrigerant use)

Portfolio assessment against GHG

Anaerobic digestion (Project convener)

Time and locational impacts of generation, usage, and efficiency

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Upcoming Work

- Demand Resources Plan
  - Plan for 2021-2023 program cycle
  - Needs to reflect both focus areas
  - Seeking technical input from Forecasting Subcommittee on preliminary model

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Discussion

Thank you!

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