

House Energy & Technology Committee January 19, 2022

Municipal Energy Management and Resilience

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Efficiency Vermont

- Statewide infrastructure
- Network of partners
- Market transformation

Results

- Over \$2.8 billion in energy cost savings
- Over 12.5 million metric tons of CO₂e
- Robust efficiency workforce
- 38% lower energy bills in VT vs average

Current Landscape for Municipalities

Efficiency Vermont

- 8 staff members supporting Munis
- Free walk throughs; technical and project support
- Incentives for upgrades to equipment, buildings, operations
- 60 Munis served/year

BGS: SEMP-Ex

- Program created in 2019
- Program design only to date
- 0 Munis served to date

VGS

- 1 staff member for walk throughs upon request
- Incentives for thermal and gas upgrades

RPCs

- 2021 budget included new \$\$\$
- 1-2 staff per RPC
- Support planning and development of critical infrastructure

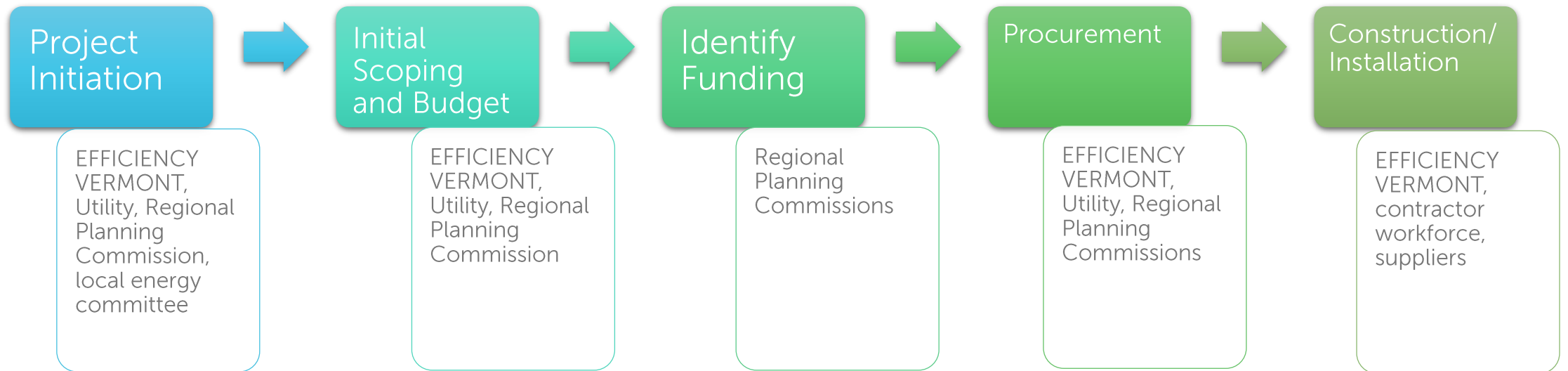
VLCT

- General support and advocacy (not energy specific)
- Insurance coverage
- Municipal Assistance Center

Electric Utilities

- Tier III incentives
- Pilot initiatives including GMP's Resiliency Zone work

Project Workflow and Support



SEMP Expansion (“Muni SEM P”)

**Jan – Sept
2019**

SEMP expansion to municipalities conceptualized by BGS and DPS

Efficiency Vermont consulted as design and implementation experts, and given experience with market and players

Funding opportunities explored through VLITE and CEDF

**Sept 2019 –
Dec 2020**

VLITE and CEDF award funding for design of SEM P Expansion Pilot

Partners initiated program design discussions

COVID disrupted progress on program development

**Jan – June
2021**

The Legislature considered, but ultimately scrapped, funding SEM P Expansion

Pilot design continued

**Jul 2022 –
Jan 2022**

Discussions continue between State Agencies, Legislators, and industry experts on supporting municipal efficiency and resilience

Needed funds estimated

Efficiency Vermont Enhanced Support for Municipalities

New offers launched in 2020 for
High Energy Burden Towns

- In 2020 Efficiency Vermont provided \$25,427 in incentives for 6 towns (Barre City, Irasburg/Barton/Orleans, Island Pond/Brighton/East Brighton, Johnson),
 - Towns will save a **combined \$167,787** over the lifetime of the projects
- In 2021, 5 projects completed so far, with 3 more underway.
- Projects included lighting upgrades, heat pumps and installing other efficient products in municipal buildings





Village of Orleans

“This project was proof that when everyone works together with a common goal, we can do amazing things in a short amount of time.”

John Morley, Orleans Town Manager

The Village of Orleans focused its efforts on upgrading its wastewater treatment facility, which uses as much as 10 times more than other municipal facilities in Orleans.

\$167,787

Amount 6 towns in 2020 pilot program saved

Case Study: School IAQ Program

90%

of all eligible schools have received services

62,000+

students now attend schools with improved HVAC systems

6,500+

teachers work in schools with improved HVAC systems

13m ft²

of space now has improved ventilation and/or filtration

50%

of schools that previously had *no* ventilation installed HVAC equipment for the first time

150+

companies employing hundreds of engineers, architects, and tradespeople worked on these projects

Pillars of Success and Future Focus

Pillars:

- Robust engagement of stakeholders, workforce, and supply chain
- Build equity into the program design
- Repurpose existing implementation infrastructure to maximize efficiency

Future Focus:

- Municipalities need more funding and project management support to accelerate this work
- Inter-related benefits: efficiency and cost savings, resilience, health

