



Thermal Energy Efficiency

SENATE COMMITTEE ON NATURAL
RESOURCES & ENERGY

FEBRUARY 2, 2021

Agenda

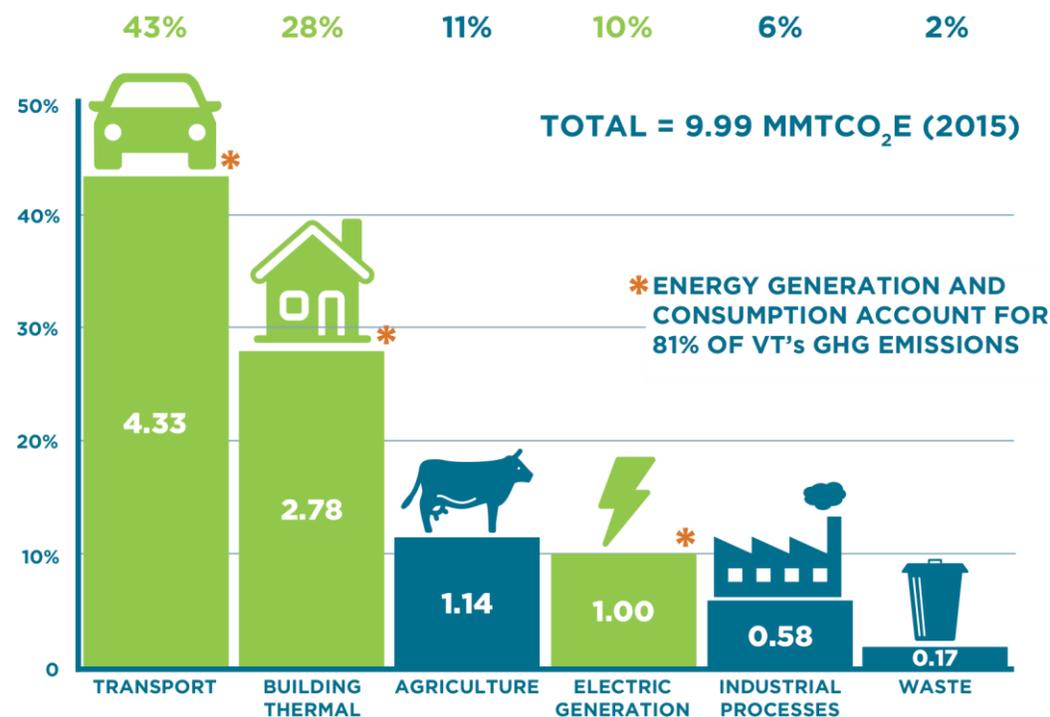
- VGS At A Glance
- The Context
- The Plan
- The Past, Present, and Future
- Questions



The Context....

- Natural gas accounts for less than 7% of the state's overall GHG emissions AND
- Has the potential to touch 54,000 customers
- VGS embraces the impact and responsibility it has to help customers lower their carbon footprint
- Most GHG emissions in VT's thermal sector come from the 6-out-of-10 homes that heat with oil or propane

Vermont's GHG emissions by sector

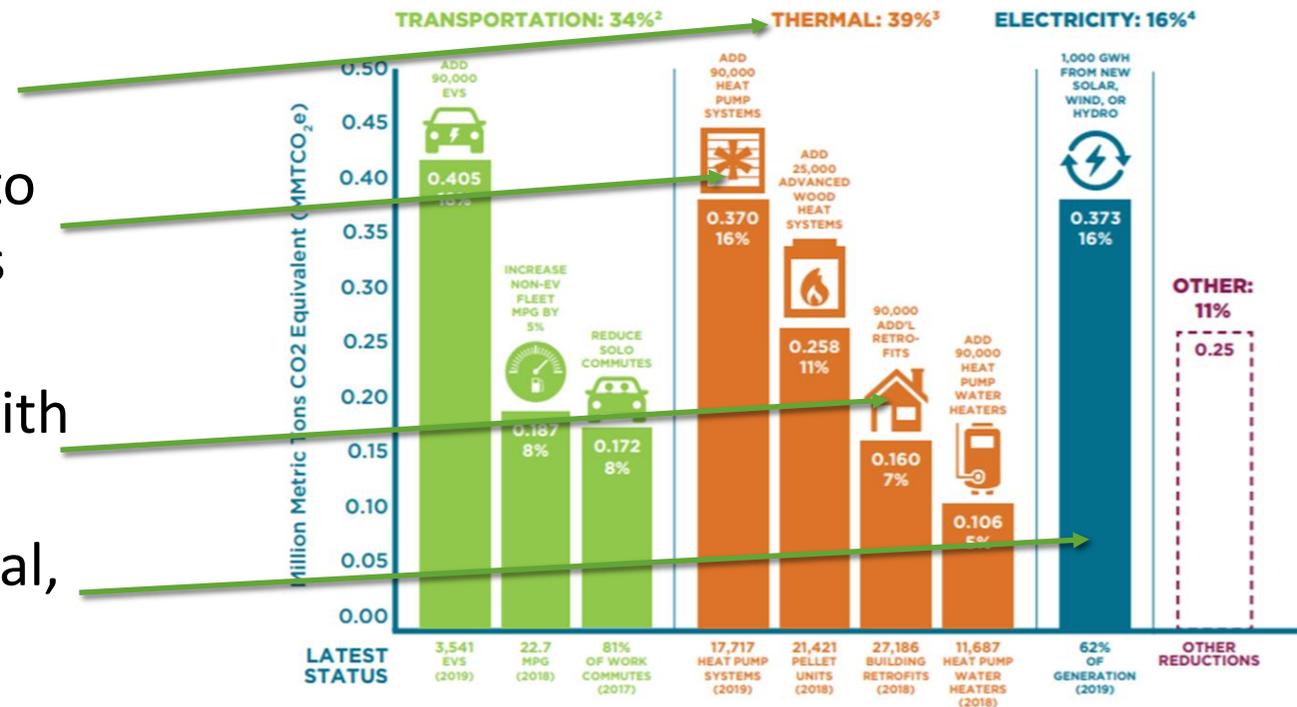


* 2019 ENERGY ACTION NETWORK PROGRESS REPORT

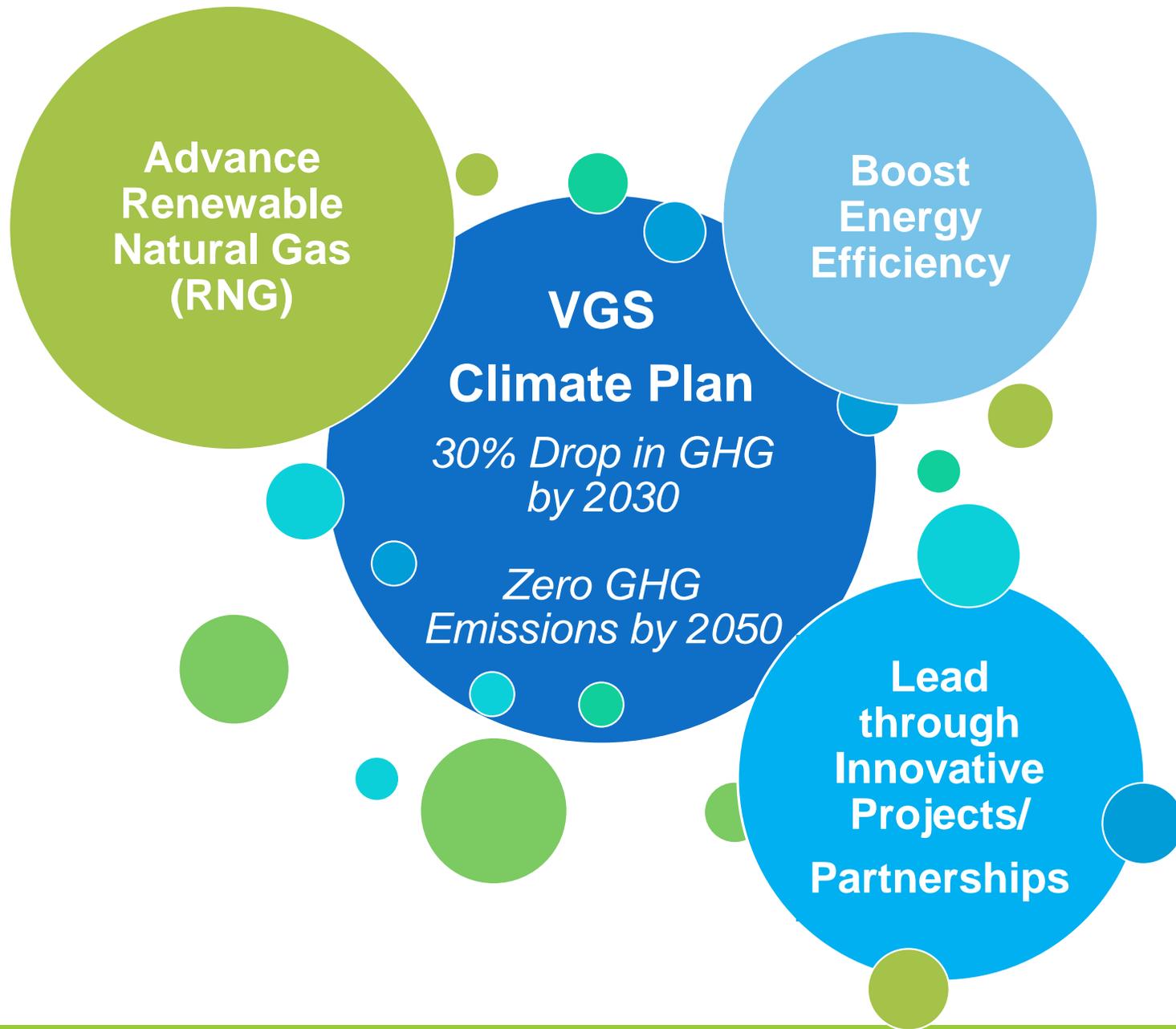
Uniquely Positioned to Decarbonize Thermal Sector

- ✓ VGS Service Team capable of installing and maintaining CCHPs
- ✓ VGS Energy Efficiency Team to boost home Weatherizations
- ✓ Non-pipe customer growth alternatives in partnership with electric utilities
- ✓ Other – hydrogen, geothermal, district energy

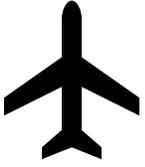
2.3 MMTCO₂e reduction by 2025 is required to meet the Paris Agreement¹



* 2019 ENERGY ACTION NETWORK PROGRESS REPORT



The Plan



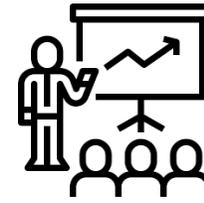
BTV Sound

- Partnership between Burlington International Airport and VGS
- Multi-year project
- 10% local match for soundproofing
- 2021 & 2022 are pilot years to develop and implement program
- Partnership with GMP, EVT, and BED



Townhouse-Condo

- Rental and owner
- Economies of scale for residential weatherization
- Vintages 1970-2000
- Multi-year opportunity
- Thermal, electric, water opportunities
- Moderate income



Workforce Innovation

- Focused on weatherization workforce
- Collaboration with EVT, BED, and OEO's
- Connecting contractors with training partners

2021 Initiatives



Residential Energy Services

Focus for 2021

- Alignment and collaboration across EEU's
 - Weatherization program framework
 - Workforce development
 - Consumer & market research
- VGS customers served directly
- Increased trade ally engagement
- New product development ----->
- Business process efficiencies
- Integrated Energy Services at VGS

Heat recovery
 Integrated controls
 Gas-fired heat pumps
 BED-VGS Net Zero Pathways



Weatherization

- Single/multi-family, condos, MFD
- 50 to 75% rebate
- 0 to 3.99% financing
- Low/mod income focus
- Health & safety issues



Efficient Equipment

- Choice of rebates or no/low-rate financing



New Construction

- Custom analysis
- Partner with Efficiency Vermont



Commercial Energy Services

Focus for 2021



Photo courtesy of Ben & Jerry's

- Key Account Management
- Proactive EEU & DU collaboration
- Automated Energy Star data upload
- New product development
- Increased trade ally engagement
- Leveraging VGS Sales, Service engagement
- Burlington 2030 District

Dynamic ventilation
Heat recovery
Mid-stream incentives



Commercial Retrofit

- Project identification
- Coordinated approach with DUs, EEUs
- Engineering services provided for scoping
- Goal setting, energy planning



Efficient Equipment

- Rebates highest efficiency equipment
- Custom analysis



New Construction

- Coordinate approach w/ DUs & EEUs
- Review plans and conduct energy analysis
- Provide design team with in-depth technical assistance

Low- and Moderate-Income Offerings

Low Income Assistance Program

- 20% discount on rates

For renters:

- VGS pays 75% of weatherization projects
- Savings from projects show up on tenant energy bills
- Apartments more comfortable and healthier

0% financing for all

Comprehensive audits are no cost to all customers

- Comprehensive audits – if customer completes project and income qualified \$500 adder

VGS supports CVOEO's weatherization program.

- Pay 50% of all projects in our territory.

Mobile home program

- We pay 100% for income qualified
- 75% for everyone else

Condo offerings

- \$750 prescriptive





Questions
