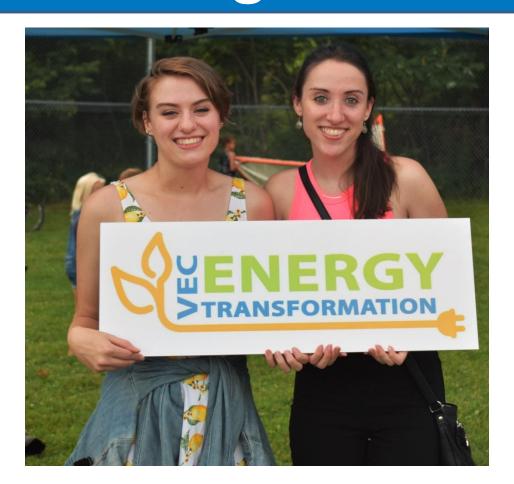
VEC's Energy Transformation Program





Tier III Planning & Decision Process

- Carbon Reduction Opportunity
- Meaningful and Relevant to our Members
- Financial Responsibility
- Regulatory Compliance

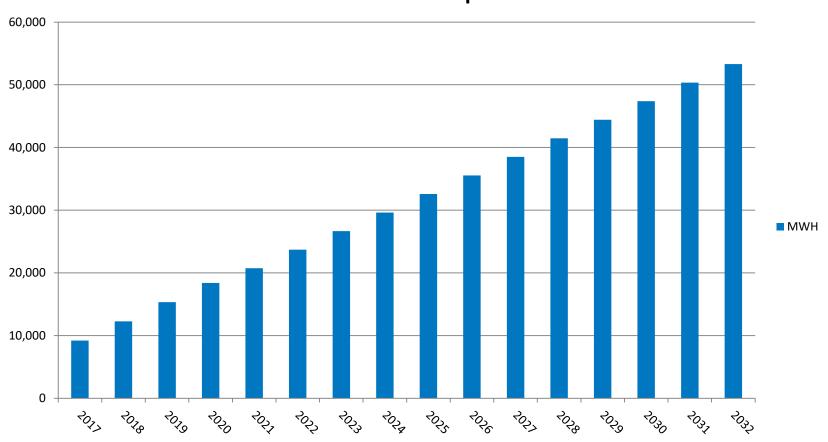
VEC Team:

Energy Planners, Financial, Regulatory, Engineering. Comprehensive approach.



Tier III Requirements

Estimated Tier III Requirements





Tier III Results to Date (MWh)

	2017	2018	2019	
Requirement	8,883	12,267	15,333	
Actual	11,467	18,427	22,988	
Percent Met	129%	150%	150% VERMO	

Clean Air Program

Purpose: Provide discounted electric infrastructure to offgrid or underserved homes and businesses

Total projects completed: 13

Project cost: \$3k - \$171k, average of \$70k

VEC share of cost: \$1k - \$83k, average of 30%

Total VEC program cost: \$250k, \$150k annual budget

Total expected lifetime MWh: 33,658

CAP projects continue to drive our Tier III success



Clean Air Program









Thermal Measures

Cold Climate Heat Pumps – 200 units - \$300 or \$450
Heat Pump Water Heaters – 30 units - \$150
Pellet Stoves – 30 units - \$150 or \$300
Centrally Ducted Heat Pump – 2 units - \$300/ton
Air to Water Heat Pump – 2 units - \$500/ton









Transportation Measures

Electric Vehicles - \$500 for purchase, \$100/yr for lease *Plug-in Hybrid EVs* - \$250 for purchase, \$50/yr for lease

Public Level 2 Charging Stations - \$500/head **Home Level 2 Charging Stations** - \$250







Tools & Equipment

Electric forklifts – 5 units - \$1,000

Residential mower – 50 units - \$50 **Commercial mower** – 2 units - \$1,000







Education & Outreach

- At least two bill inserts
- Direct emails to approximately 17,000 email contacts
- An article in each issue of VEC's quarterly newsletter
 Co-op Life, which is sent directly to all VEC members
- Social media promotion through Facebook, Twitter and Instagram
- Press releases when a new incentive is offered
- Events such as VEC's Annual Meeting of the Members, farmers' markets, town energy committees, and energy fairs



Education & Outreach







Tier III Results to Date

(1/1/17 - 2/17/20)

	Units	Incentive	MWh Credit	MWh/Unit	Payback
Clean Air Program	13	Varies	33,658	2,589	< 5
Cold climate heat pump	788	\$300 – 450	10,706	14	1-2
Heat pump water heater	75	\$150	240	3	1
Pellet stove	77	\$150 - \$300	3,452	45	1.5
Electric vehicle	89	\$500	2,283	26	2
Plug-in hybrid EV	61	\$250	907	15	2
Public charging station	20	\$500	200	10	8
Electric forklift	1	\$1,000	47	47	1
Residential mower	42	\$50	68	2	3



Questions?







