

Renewable Energy Vermont (REV)

- Renewable energy trade association in Vermont
- Members include:
 - Businesses
 - Non-profits
 - Utilities
 - Individuals
 - All committed to reducing our reliance on dirty fossil fuels by increasing clean renewable energy and energy efficiency in Vermont
- REV's members include EV businesses such as vehicle manufacturers and charging providers
- Equitable access to the benefits of renewable energy, heating, and transportation, and energy efficiency.



Need for Electric Vehicles in Vermont

- Pollution reductions
- Economic and health benefits
- Saves Vermonters money



Pollution Reductions

90,000 new EVs needed to meet VT's 2025 pollution reductions commitments



Economic and Health Benefits

- Electric vehicles keep money in Vermont
- Vermont stands to save \$313 million in total health and climate costs by transitioning to a majority of EVs by 2024
- Renewable transportation creates new jobs





Saves Vermonters Money

- Gas vehicle drivers spend nearly \$10,000 more on operations and maintenance over 150,000 miles.
- > Point of sale incentives are important and effective ways to realize these savings

	GAS VEHICLE	
Fuel	\$2.74/gallon ²	\$1.50/gallon equivalent ³
Oil Changes & Filter Replacement	\$900	None
Tire Changes	\$600	\$600
Engine Air Filter Replacements	\$207	None
Cabin Air Filter Replacements	\$273	\$273
Spark Plug Replacements	\$439	None
Coolant Flush and Replacement	\$110	\$110
Severes and Meters Fuel costs from thereing information demonstration 2018 everage Regular das price in New Endered. Electric costs from Drive Electric Vermont. Note does not ac- course for instal begins in other programs that may reduce charging costs. Autorements costs advanded to Vermont herm doing troop Pump to Puig. Union of Concerned Scientists. 2017.		



DOE study shows EV Incentives Work

- Every \$1,000 offered in EV rebates has been shown to increase EV sales by 4.8%
- One additional charging station per hundred-thousand people of driving has been shown to increase EV adoption by 3.1%



DOE (NREL) study looking at 400 different EV incentive programs offered over eight years; <u>https://www.nrel.gov/news/program/2018/nrel-research-shows-hov-lanes-and-purchase-rebates-are-effective-incentives-for-plug-in-electric-vehicle-purchase.html</u>

Equitable EV policy

- Tier III of Vermont's Renewable Energy Standard requires equity of participation and benefit
- Geographic equity concerns vast difference in benefit or incentive offered to Vermonters depending on which DU service territory
 - Burlington Electric Department customers may receive a point of sale incentive or rebate of up to \$1,800 on a new electric vehicle but Vermont Electric Coop customers may only receive a \$500 rebate for the same vehicle. Some utilities offer no EV incentive
- Burlington Electric Department's early leadership to offer scaled incentives based on a customer's income should be relied upon as a model and best practice
- Equity guide checklist that offers best practices
 - Developed by the Vermont Energy Access Coalition, in partnership with the U.S. Urban Sustainability Directors Network
 - Available online at www.revermont.org/forall

OTHER STATES INCREASING RENEWABLE ENERGY, JOBS, & CLIMATE ACTION

CA, CT, DE, LA, MD, NY, OR, PA, TX, DC offer electric vehicle purchase incentives

California required all new buses be carbon free within next 10 years





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Net-Metering is how Vermonters can generate their own electricity and share what they don't use with their neighbors through the grid.

Source: https://greenmountainpower.com/help/net-metering/what-is-net-metering/

Net Metering 3.0

- Compensation based on whichever is lower, the utility's blended residential rate or the statewide average blended residential rate (\$0.15417/kWh)
- May not use net metering credits toward non-bypassable charges:
 - Customer Charge
 - Energy Efficiency Charge
 - Energy Assistance Program Charge
 - On-bill financing
- ▶ Four categories of Net Metering systems, plus hydro
 - Category I: 15 kW and under = +1 cent/kWh siting adjustor for 10 years
 - Category II: 15-150 kW on preferred sites = +1 cent/kWh siting adjustor for 10 years
 - Category III: 150-500 kW on preferred sites = 2 cent/kWh siting adjustor for lifetime
 - Category IV: 15-150 kW not on preferred sites = 3 cent/kWh siting adjustor for lifetime
- 150-500 kW projects allowed only on "preferred locations"
- REC adjustors:
 - > +2 cents/kWh credit for ten years if RECs go to utility
 - drops to +1 cent/kWh for CPGs filed after July 1, 2019
 - > -3 cents/kWh (debit) for the life of the system if RECs are held by the generator
- Biannual PUC proceeding to revisit adjustors

