

**Proposal:**  
**Peacham's First Public EV Charger at the Peacham Library**

*The Peacham Library Board of Directors has chosen to pursue the installation of a public electric vehicle charger at the Library and is requesting modest financial support from local organizations to help cover the cost of installation for this new public service.*

<b>TOTAL COST</b>	<b>\$950</b>
EV Charger	\$600
Installation	\$1000
Signage	\$100
GMP Rebate	-\$750 (rebate)

This first public EV charger in Peacham is intended to serve the entire community and is freely available to be used by anyone who lives in or is visiting our town. For this reason, the library is looking for the support of organizations in our town whose members, customers and/or participants might want to take advantage of this charger. **We are requesting a contribution of \$150 from your organization to support the installation and maintenance of this EV charger.**

**Big Picture:** Transportation is the single largest source of climate pollution in the state, representing 40% of Vermont's greenhouse gas emissions. The rapid shift to electric vehicles (EVs) represents a big piece of the multi-pronged approach needed to reach Vermont's emissions reduction targets over the next decade. (*Energy Action Network*)

Vermonters spend about half of their energy budget on transportation petroleum, totaling one billion dollars each year that flow out state. That's money households could save or spend supporting Vermont's local renewable energy economy (*VACD*). Furthermore, gasoline and diesel vehicles may no longer be produced as early as 2035, a date that GM, the largest automaker in the world, has committed to (*MSN*).

**Why:** In order to encourage the uptake of the everyday use of EVs it is necessary to build out a comprehensive network of charging stations around Vermont, both residential and public. Peacham's Town Plan states "The Town should embrace the future by encouraging public charging infrastructure in places visitors and residents are likely to stop and congregate, such as Peacham Corner (Peacham Village)." (*Town of Peacham, pg. 65*)

Not only is having an EV charging station in Peacham the right thing to do for our community and the environment, but it has the potential to increase economic activity, especially since there are still very few chargers in the immediate area (*see Plugshare.com map*). Allowing drivers to add about 25 miles of range per hour of charging can help alleviate range anxiety from "going off the beaten path." This first charger can also serve as a model for future charging stations in Peacham. Encouraging EV use in Peacham means quieter vehicles with zero tailpipe pollution. (*Drive Electric Vermont*)

**Location:** Of all the parking areas in Peacham Village, the Library is the easiest site for the immediate installation of a public EV charger. Its modern electrical system, with plenty of capacity and a short cable run, means the installation is relatively simple and inexpensive. Its location in the heart of the village is convenient to surrounding businesses and institutions. Since there are approximately eight parking spots at the Library, signage will be added to suggest that the EV spot be left open if there is available parking nearby (such as across the street). This should help lessen concerns about parking options for non-EVs. Between the Library parking lot and parking area across the street in front of the Cafe/Guild/Hapenny Store there is enough parking for the average non-event day in Peacham.

**Incentives:** Green Mountain Power (GMP) is offering a \$750 rebate per installed EV charging port.

**Let's Get Technical:** We are proposing installing a standard Non-Networked Level 2, 240V, 32A charger that would provide up to 7.7kW of power per hour, similar to many at-home chargers. It provides about 20-25 miles of range per hour of charging.

- Non-networked chargers are much less expensive upfront and much simpler to manage than networked chargers. There is no monthly fee, but the Library would have to pay for the power, which would be included in its monthly electric bill.
- A non-networked charger would cost about \$1,700 upfront (\$600 for the charger and \$1,000 to install and \$100 for signage) and the only annual cost would be the electricity consumed, which could be offset by a request for donations from users based on energy consumed, as other towns like Cabot and Plainfield have done, at the charging station.
- GMP is providing a \$750 rebate per installed charging port

○ **\$1,700 installed cost - \$750 GMP rebate = \$950 Total Out-of-Pocket**

Thank you for your consideration and support.

Please reach out to Jacob Thomas on the Maintenance & Technology Committee of the Peacham Library Board ([videojake@gmail.com](mailto:videojake@gmail.com), 413.222.1023) if you have any questions or would like to make your pledge.

**Sources:**

[Town of Peacham, Town Plan](#)

[Energy Action Network, Vermont](#)

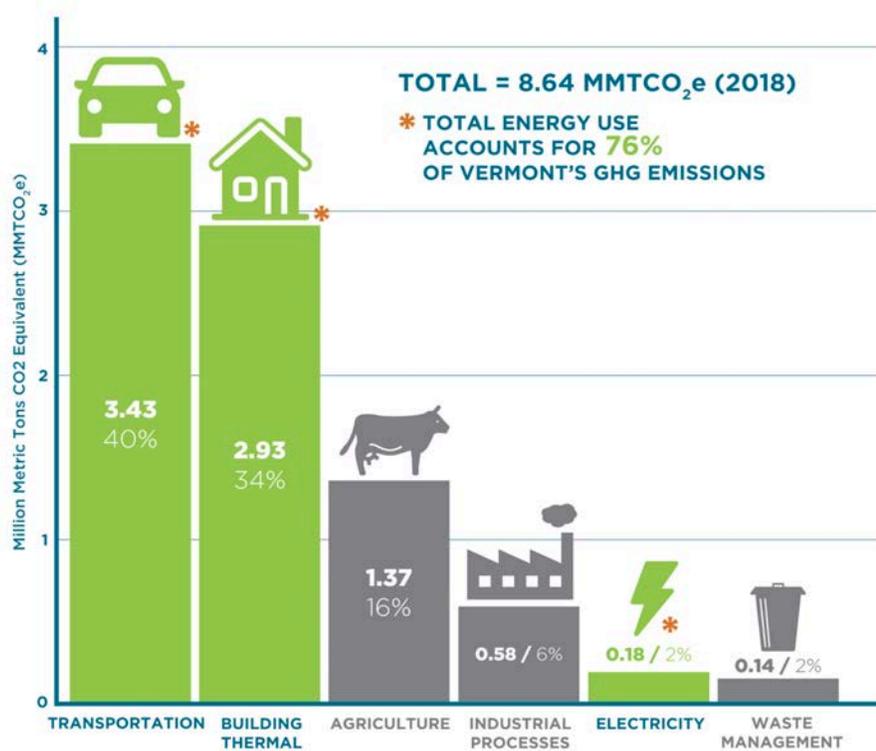
[Vermont Agency of Commerce – Department of Housing & Community Development \(VACD\)](#)

[Drive Electric Vermont](#)

[MSN](#)



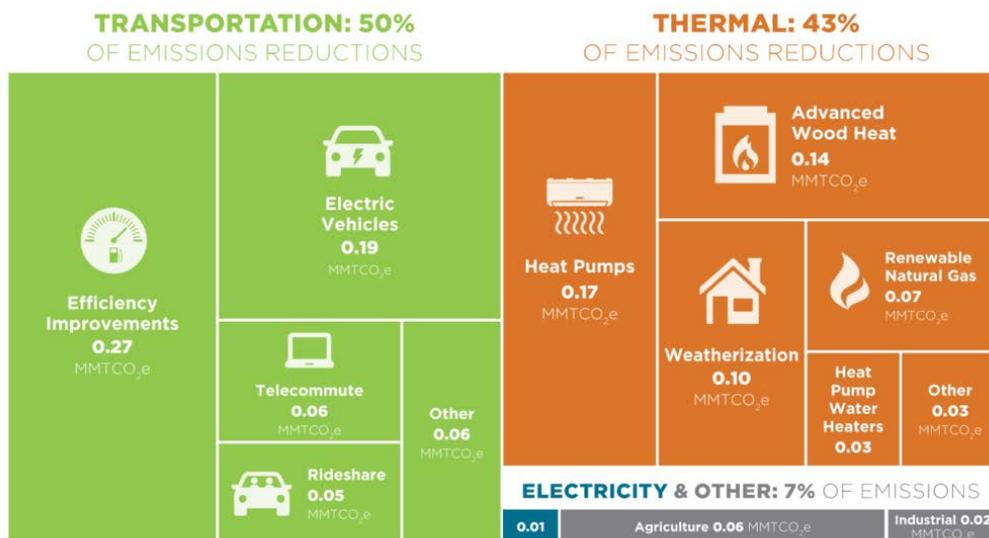
## Vermont's GHG emissions by sector, 2018



Source: Vermont Agency of Natural Resources, Vermont Greenhouse Gas Emissions Inventory and Forecast (1990-2017), 2021.

## Modeled emission reductions for 2025

Total reductions of 1.26 MMTCO<sub>2</sub>e to meet Vermont's statutory emissions reduction requirements



Source: EAN Emissions Reduction Pathways Model, 2021

### Nearest EV Chargers

Green = Level 2 Charger

Orange = DC Fast Charger

