## House Transportation Committee EV Rates

J. Riley Allen

Deputy Commissioner
2/17/2021
2.3 MMTCO2e reduction by 2025 is required to meet the Paris Agreement ${ }^{1}$


[^0] Efficiency Vermont (2019), Department of Public Service (2019), Biomass Energy Research Center (2019), Department of Forests, Parks \& Recreation (2019), Efficiency Vermont (2019), Department of Public Service (2019), Biomass Energy Research Center (2019), Department of
4. Electric data from the Department of Public Service (2019) and ePUC (Certificates of Public Good: September 2019).

Source: Energy
Action
Network

## Electric Vehicle Futures

```
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
```


## VELCO Peak Load Forecast Components



Technology forecasts do not include effect of load control

## Electric Cars Are Coming, and Fast. Is the Nation's Grid Up to It?

GM's decision this week to phase out gasoline vehicles is the latest in a major shift that will mean drastic new demands on electric utilities.

New York Times, January 29, 2021

OVERVIEW OF LSAM ${ }^{\text {TM } " U T I L I T Y ~ C O S T ~ K P I S " ~}$


## Fuel Cost Comparison

| \$/Gallon of Gas Equivalent | Annual Household Transportation Fuel Spending (Sedan/Wagon) |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | \$0 | \$1,000 |  | \$2,000 |
| \$2.40 | Gasoline |  |  | \$1,801 |
| \$1.80 | Average Electric | ty Rate | \$1,348 |  |
| \$1.29 | EV-Specific Rate | \$964 |  |  |
| \$2.34 | High Electricity R |  |  | \$1,755 |

(1) $\$ 2.40 /$ gallon of regular gas is AAA reported Vermont average for 2/1/2021; (2) Average residential electricity rate of $\$ 0.179 / \mathrm{kWh}$ );
(3) GMP Time-of-Use Off-Peak EV Rate of $\$ 0.128 / \mathrm{kWh}$; (4) WEC marginal residential rate of $\$ 23.292$ for block over $100 \mathrm{kWh} / \mathrm{month}$

## Observations

- EV Rates/load management are important to Vermont electricity consumers and Vermont climate objectives
- PUC can be used to sensibly apply standards set in law to address individual utility circumstance
- Now is the time for policy and regulatory reform


[^0]:    Vermont Agency of Transportation/UVM Transportation Research Center (2019), and Drive Electric Vermont (Oct 2019). 3. Thermal data from EIA (2019),

