# Mileage-based User Fee for EVs

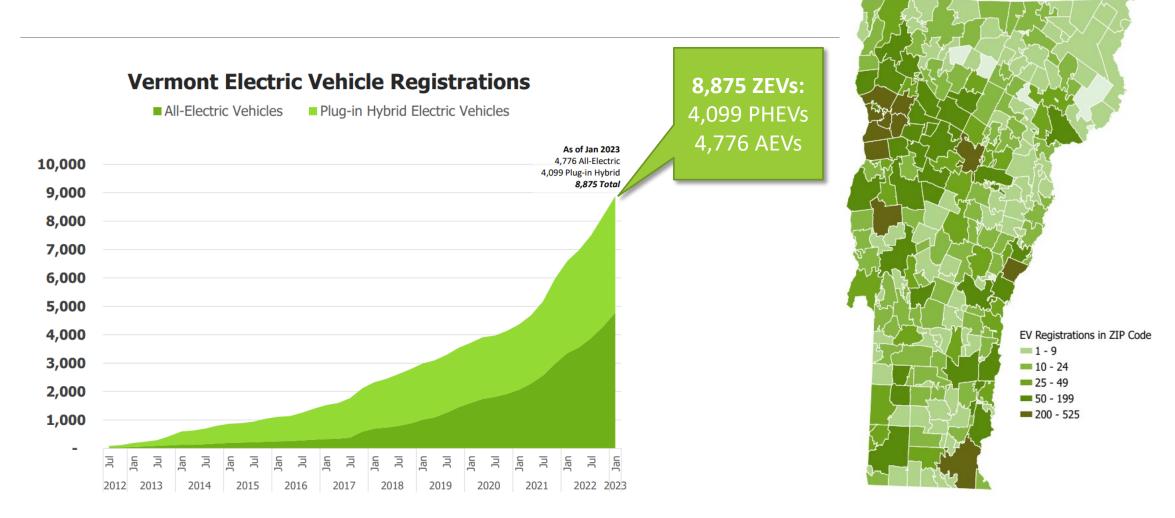
HOUSE WAYS AND MEANS COMMITTEE, FEBRUARY 24, 2023

MICHAEL SMITH, DEPUTY COMMISSIONER, DEPARTMENT OF MOTOR VEHICLES, AOT MICHELE BOOMHOWER, DIRECTOR, POLICY, PLANNING, AND INTERMODAL DEVELOPMENT, AOT PATRICK Ó. MURPHY, SUSTAINABILITY + INNOVATIONS PROJECT MANAGER, AOT



HOUSE WAYS AND MEANS COMMITTEE PRESENTATION - FEBRUARY 2023

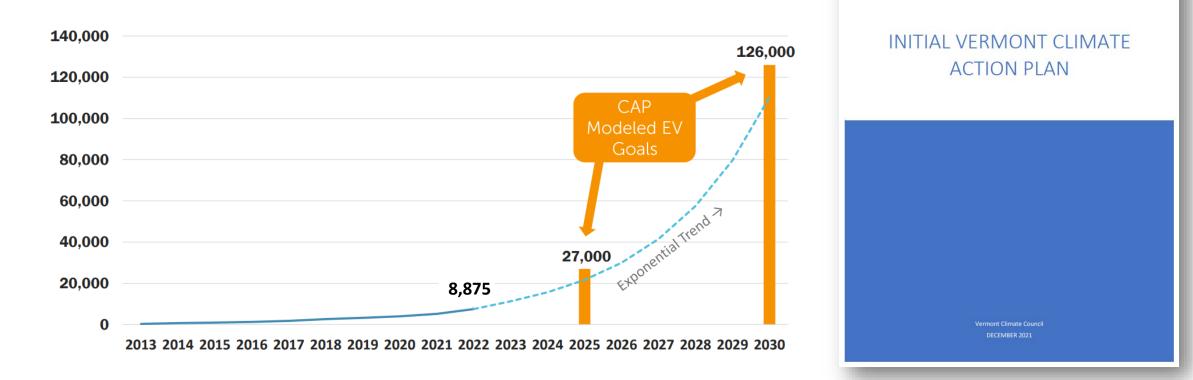
## EV Adoption in Vermont





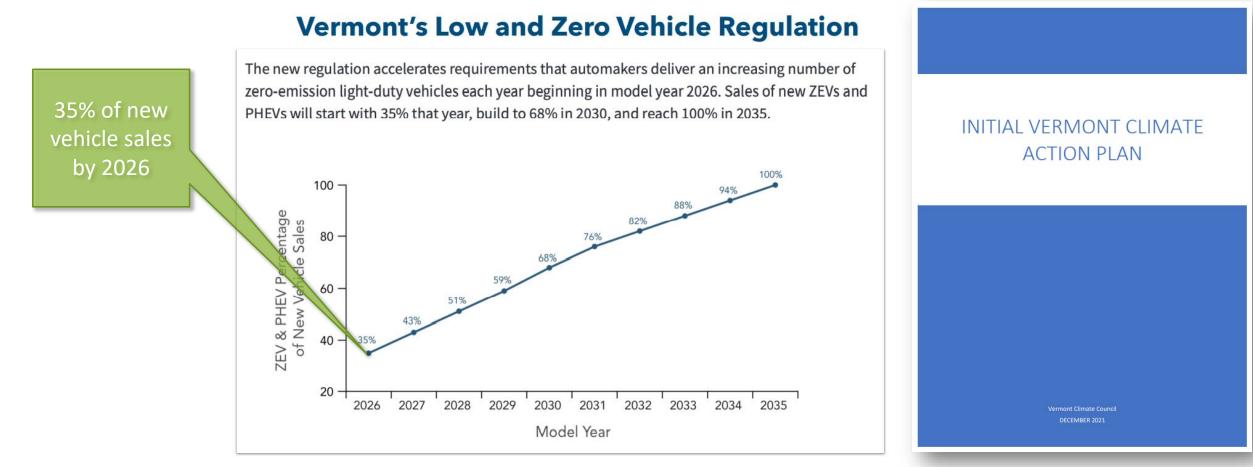
### EV Adoption in Vermont

#### How many vehicles does Vermont need to electrify?



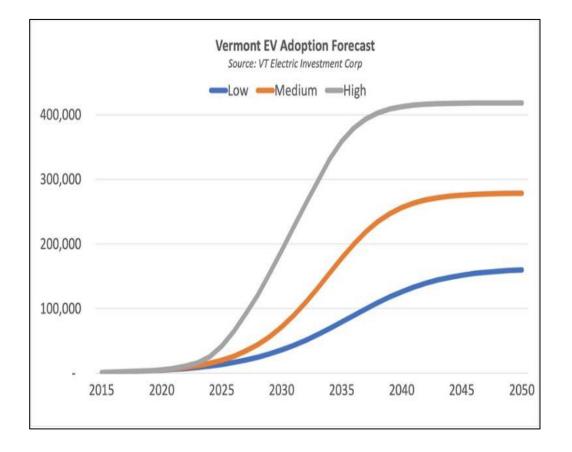


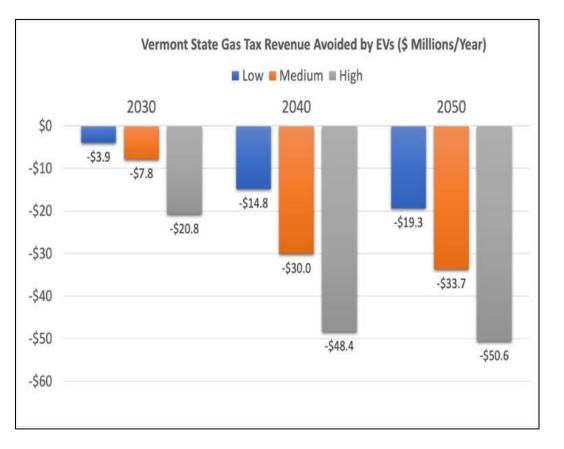
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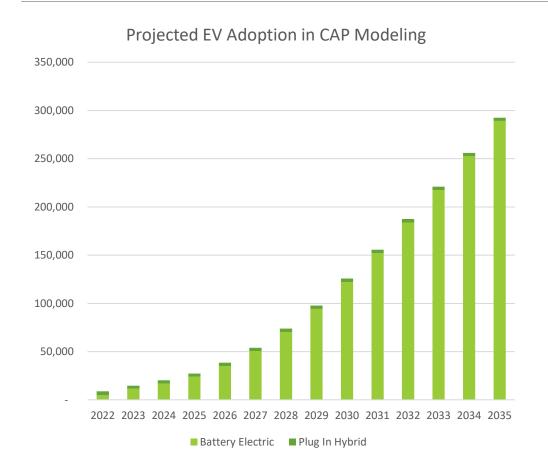
### Potential Revenue Losses due to Electrification

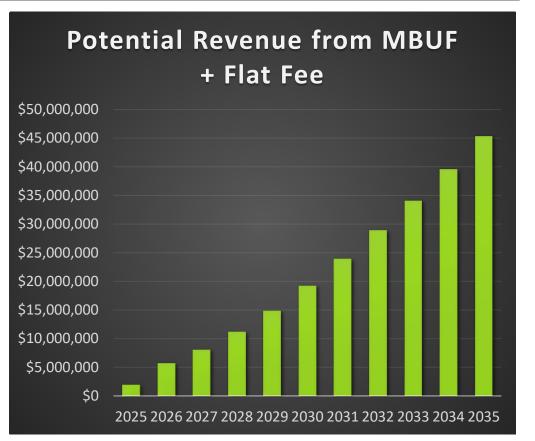






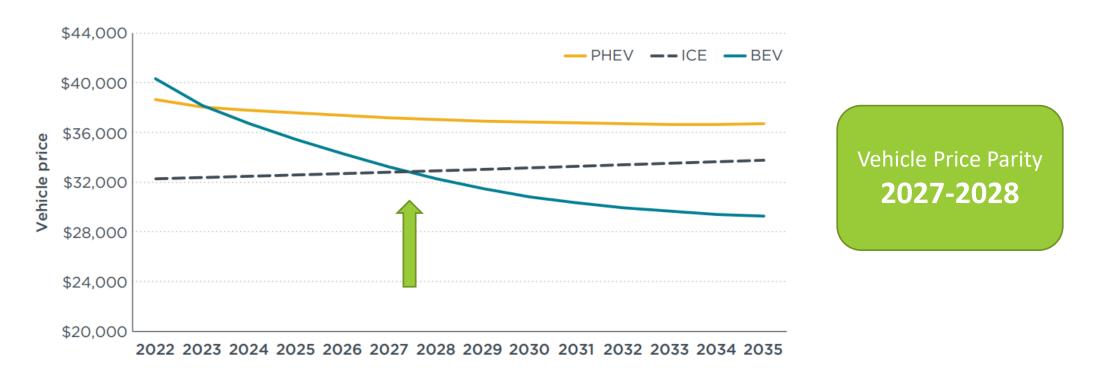
### Climate Action Plan Modeling and MBUF Projections







### Projected Vehicle Price Parity

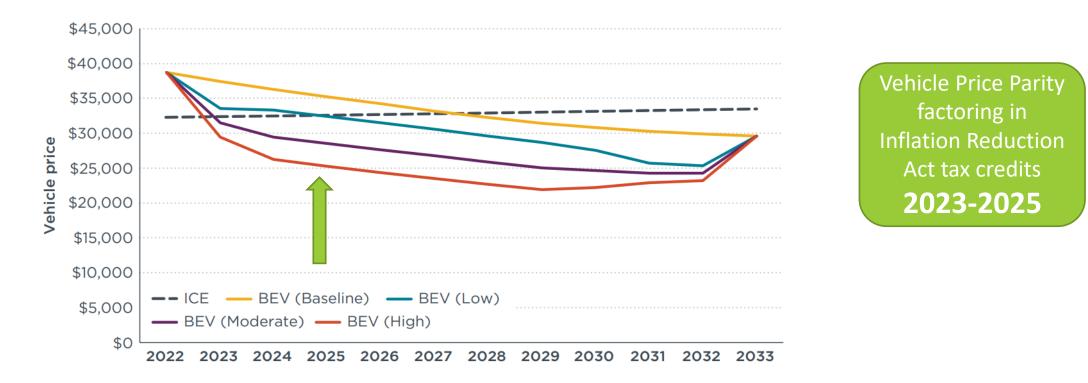




Source: January 2023 ICCT Report



### Projected Vehicle Price Parity with IRA



**Figure 4.** Sales-weighted average new ICE and BEV prices with IRA incentives and tax credits applied

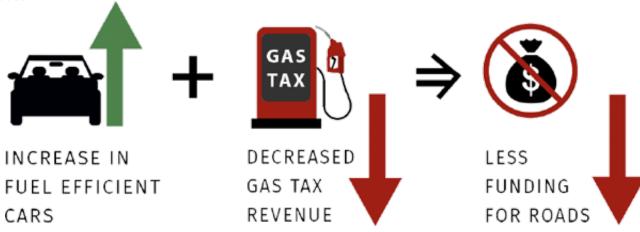
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## What is a road usage charge?

A *road usage charge* is a fee on vehicle use of the public road system





Examples:

- A mileage-based user fee (MBUF)
- An annual flat fee
- A per kilowatt hour fee

**Basis of MBUF**: A roadway consumption tax, with distance, stated in miles, as the measure of consumption.

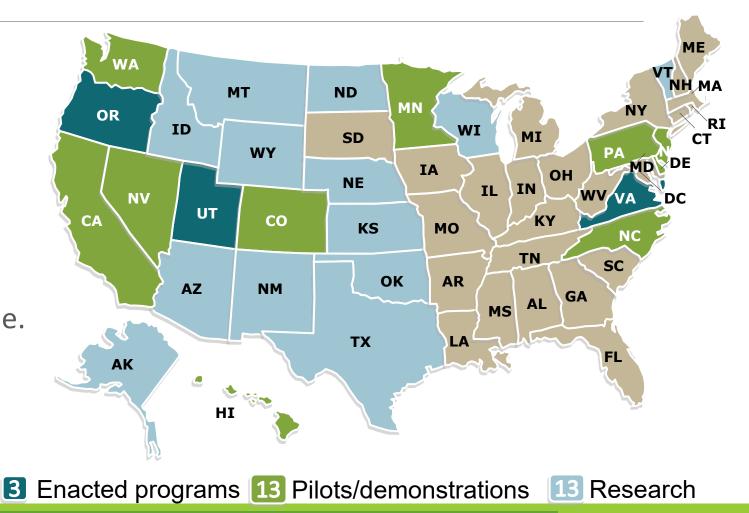
An annual flat fee is collected at vehicle registration.



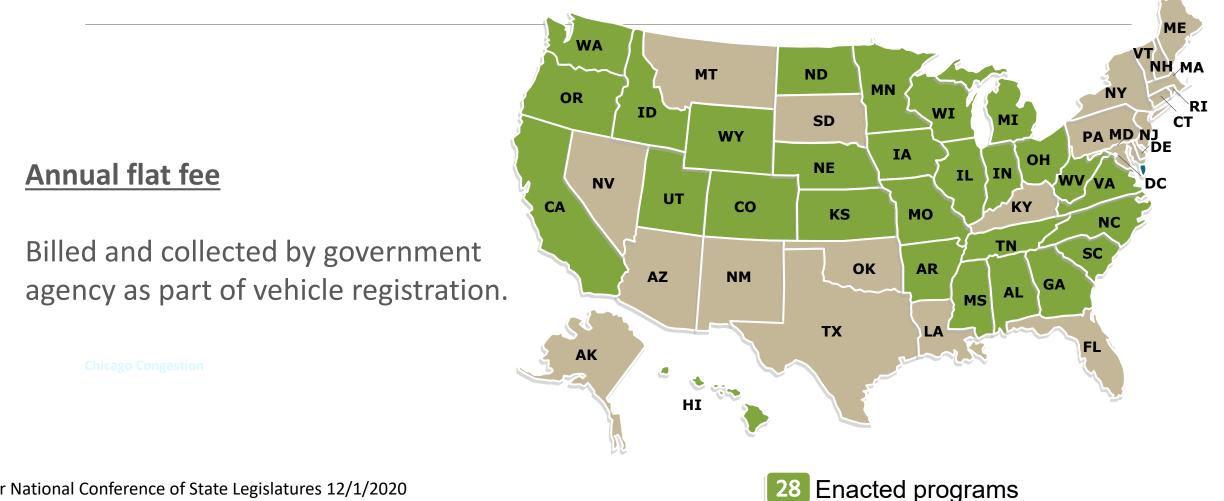
# Where are mileage-based user fees happening in US?

### Mileage-based user fee

- Manual reporting of odometer reading, and/or
- Automatic reporting of actual miles driven via technologies installed or embedded in vehicle.
- Payment made to government agency and/or private account manager.



# Where are annual flat fees happening in US?





## Road Usage Charge Study

Road Usage Charge Advisory Committee and subcommittees convened stakeholders several times in Fall 2021 to consider impacts of a variety of policy scenarios and alignment with shared goals:

- Vermont needs to develop long-term, sustainable revenue to maintain our roads and bridges
- Future funding must be fair where all drivers contribute to the maintenance of the road network
- Any funding policy must be aligned with Vermont's Climate Action Plan





## MBUF in Vermont

Road Usage Charge Study Advisory Committee recommended in its <u>final report</u> a mileage-based user fee for plug-in electric vehicles:

- Best opportunity to align sustainable transportation revenue and climate goals
- Cost-effectively utilizes existing inspection process with odometer reading
- Flexible payment options/frequencies
- Fairness: drivers only pay for what they use
- Avoids privacy concerns of reporting devices
- Federal money can be leveraged to assist with implementation





### Proposed Language

- 1) The Agency shall design and implement a process to collect a mileagebased user fee based on the annual vehicle miles traveled by BEVs registered in the State.
- 2) It is the intent of the General Assembly that starting on July 1, 2025 PHEVs that are a pleasure car, as defined in 23 V.S.A. § 4(28), shall be subject to an annual or a biennial registration fee that is one and three-quarters times the amount of the annual or biennial fee for a pleasure car pursuant to 23 V.S.A. § 361 and the State's gas tax but shall not be subject to a mileage-based user fee.



## MBUF + Flat fee in Vermont

#### Mileage-based User Fee for All-Electric Vehicles (AEVs)

- Create new fee based on annual miles traveled for AEVs as collected at the annual vehicle inspection, with rate to approximate equivalent gas tax (\$0.013/mile --\$150/yr)
- Vehicle owners pay on a selected frequency (monthly, annually) to a third-party account manager
- DMV to ensure compliance with MBUF program through existing policies and practices

#### Flat Fee for Plug-in Hybrids (PHEVs):

- Use existing "other specialized fuels" language for 1.75 x registration fee for PHEVs
- 1.75 X \$76 annual registration fee (\$57 additional fee vs. \$72 estimated in report)

### RUC Study Advisory Committee Survey

What is your initial reaction to introducing mileage-based user fees for fully electric, plug-in hybrid electric, or other highly fuel-efficient Vermont registered vehicles?	Percent	Count
Very Supportive	30%	116
Somewhat Supportive	30%	116
Somewhat Opposed	15%	58
Very Opposed	22%	85
No Opinion	2%	9
Total	100%	384



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### RUC Study Advisory Committee Survey

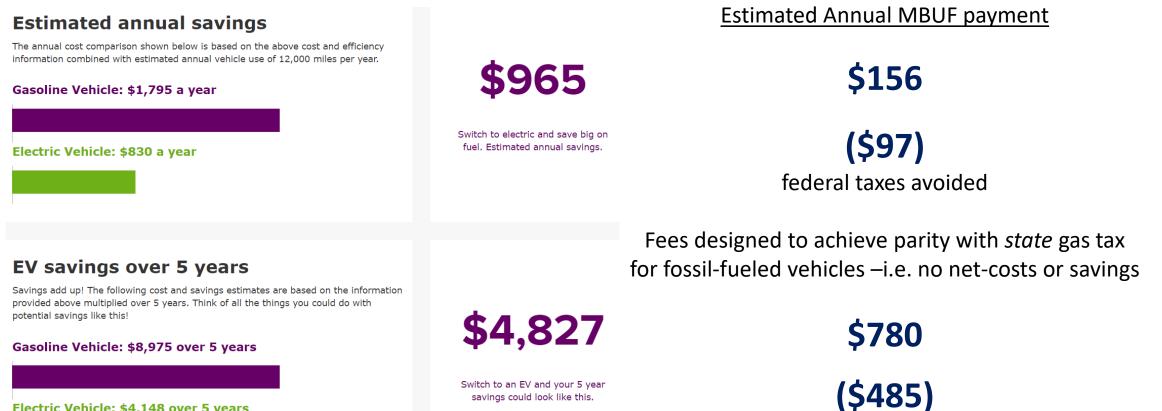
#### Table 6. EV Purchase Likelihood with Road Usage Fees

If mileage-based fees or flat fees are implemented in the state of Vermont for electric vehicles and highly efficient fuel vehicles, how likely are you to purchase an electric vehicle in the next few years?		Count	
--	--	-------	--

More likely	6%	8	
About the same	78%	109	
Less likely	16%	22	
Total	100%	139	



## Mileage-based User Fee vs. Cost of Ownership



Electric Vehicle: \$4,148 over 5 years

savings could look like this.

federal taxes avoided



## The Road Ahead

The MBUF Assessment is evaluating how Vermont can build a cost-effective system. AOT is considering:

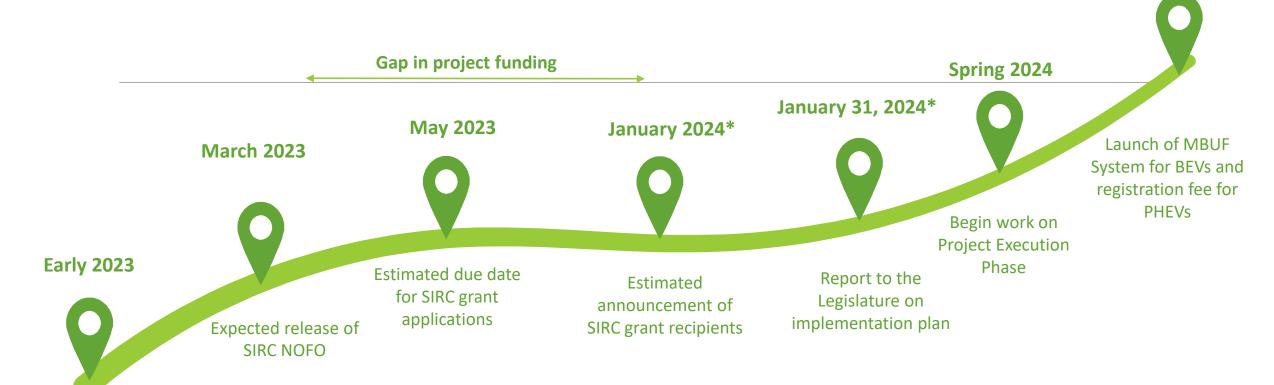
- Implementation and long-term operational/staffing costs
- System design and processes
- Rate-setting, rulemaking elements
- Transition timeline
- Federal grant application to US DOT (\$3.5 million request with 80/20 cost share)





## Project & Federal Grant Timeline





Completion of Project Discovery Phase

> \*USDOT announcement of Federal SIRC grantees varies from cycle to cycle. January 2024 may be an optimistic date



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