



Transportation Electrification Updates 2018 VECAN Conference

December 1, 2018

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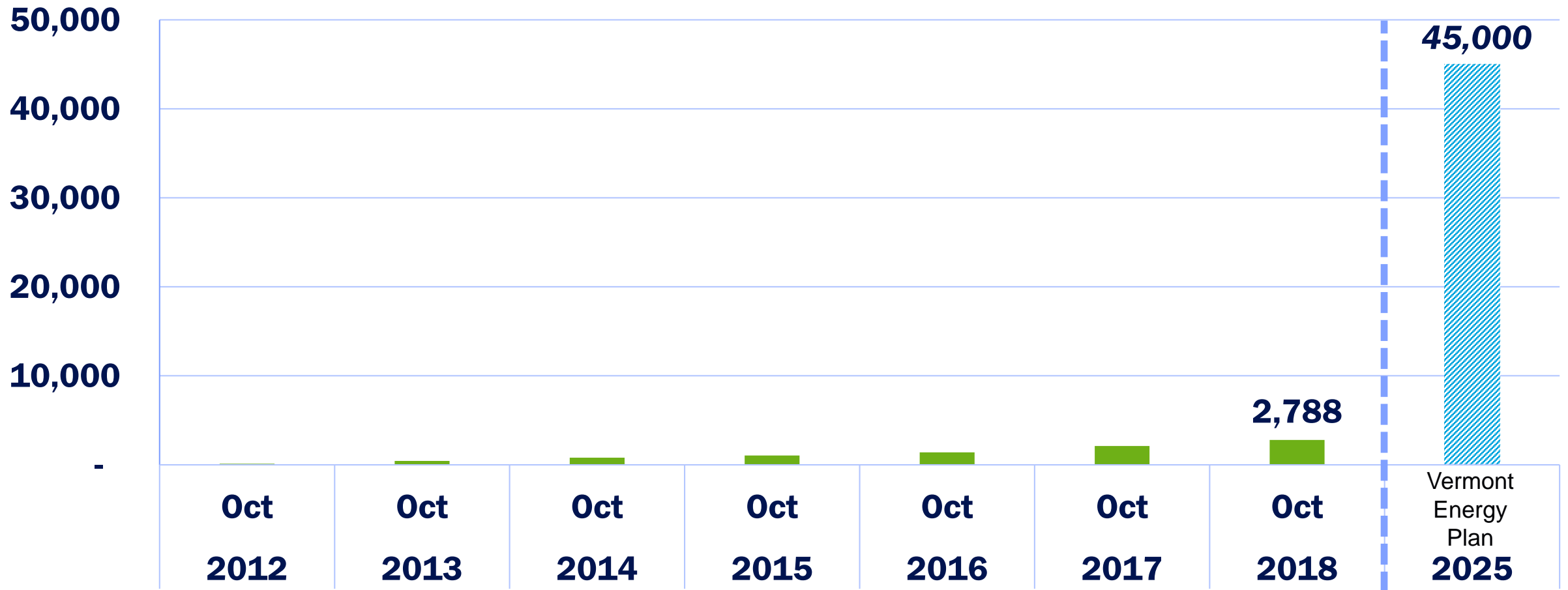


Drive Electric Vermont Overview

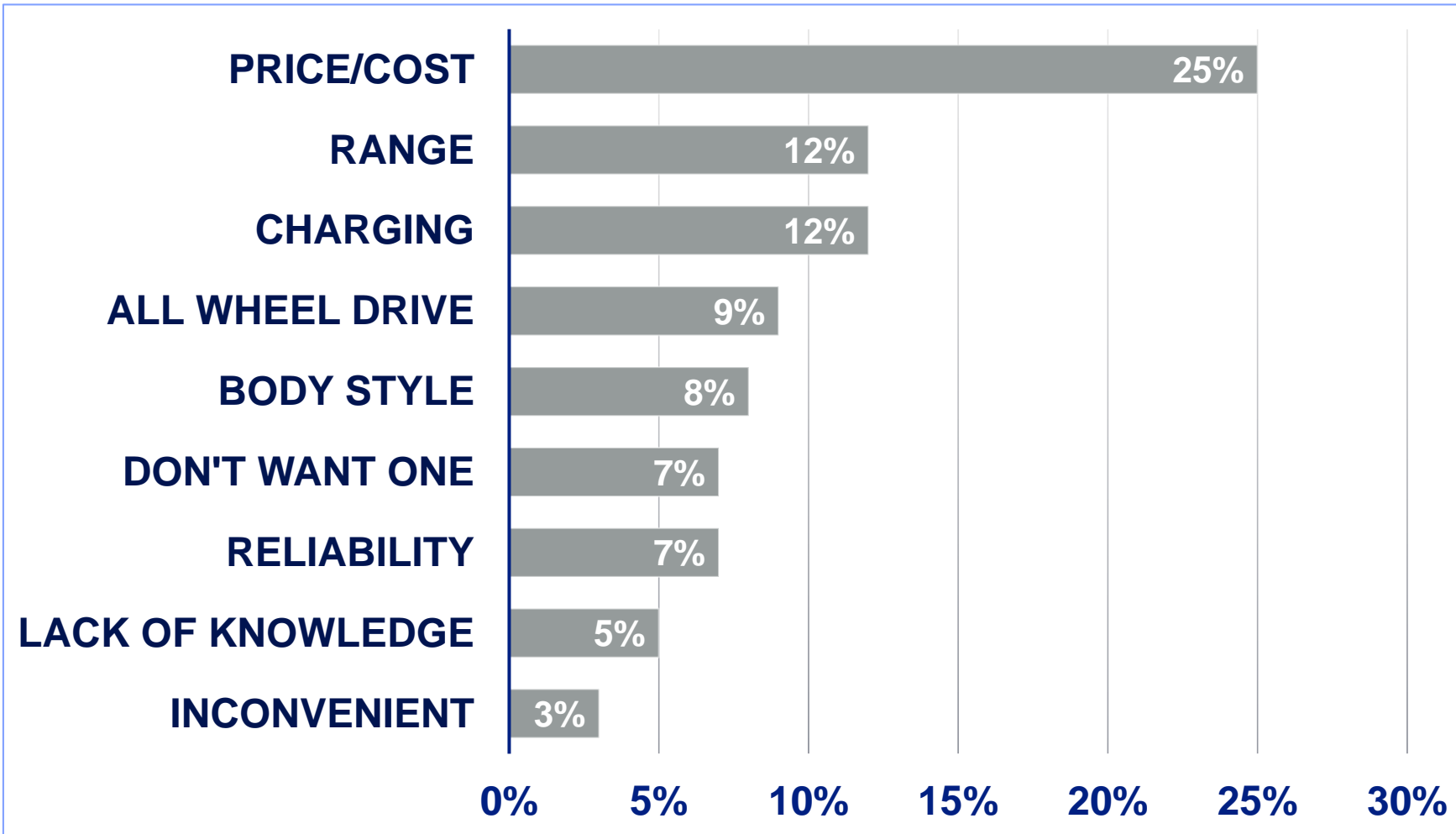
- Public-private partnership
- Coordinated by VEIC
 - Separate from Efficiency Vermont
- Quarterly stakeholder meetings
- Marketing, education and outreach
- Policy engagement
- Charging infrastructure development



Vermont EV Registrations

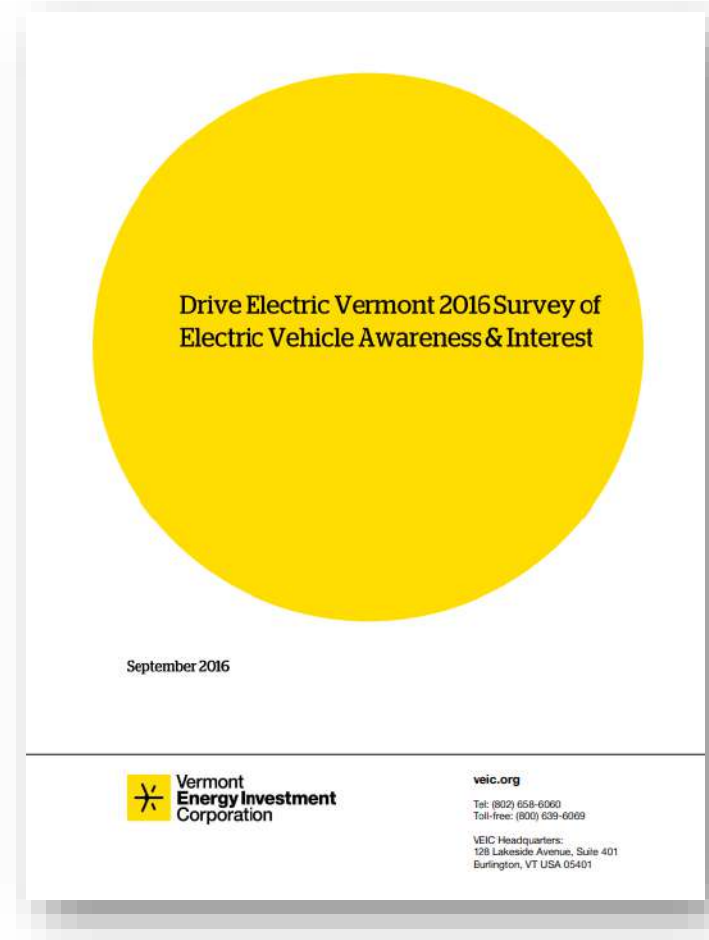


Survey of Vermonters' EV Purchase Barriers



Source: Drive Electric Vermont 2016 Consumer Awareness Survey

n = 397



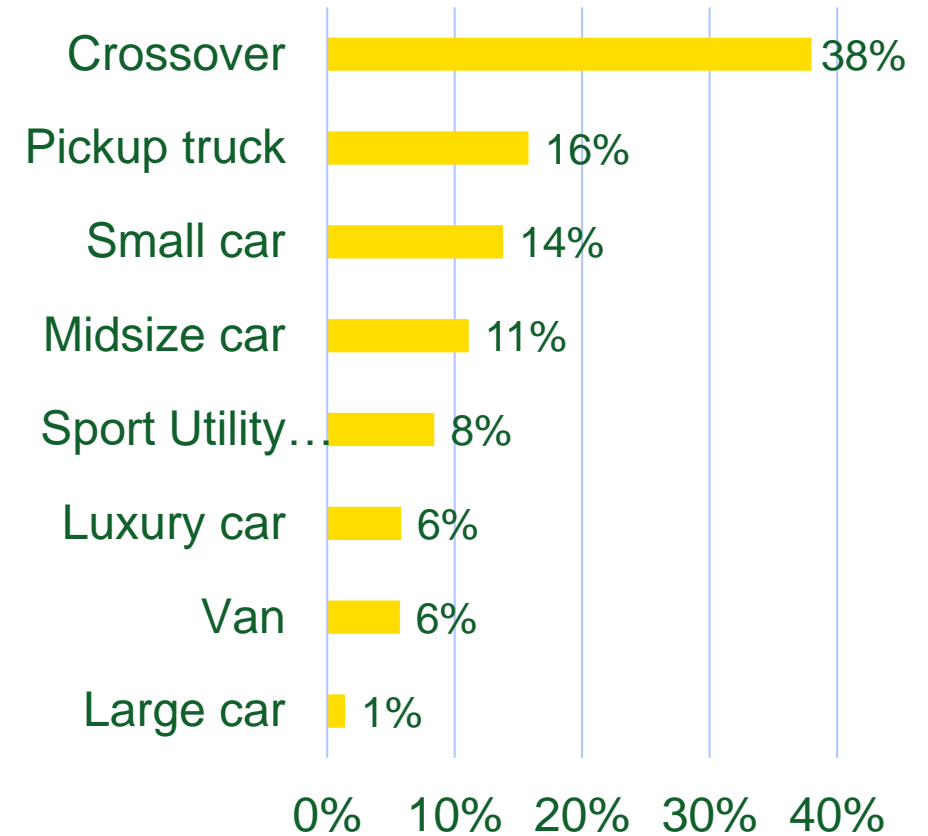
<https://www.driveelectricvt.com/benefits-for-vermont/reports-resources>



Solutions – Incentives and Models

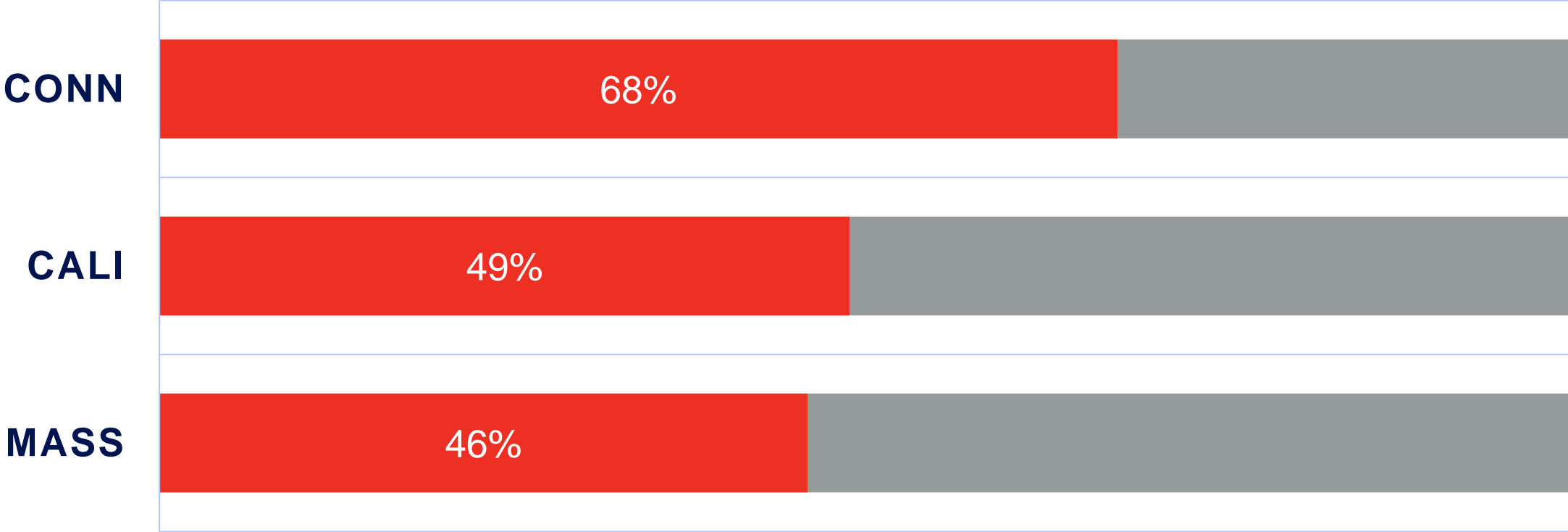
- Vermont utility incentives
- Potential state incentives
- OEMs are increasing availability of EV models in growing market segments
- Consumer marketing

U.S. car market in April 2018, by segment



Impact of Incentives

- Incentive Required for Purchase
- Would Purchase Without Incentive

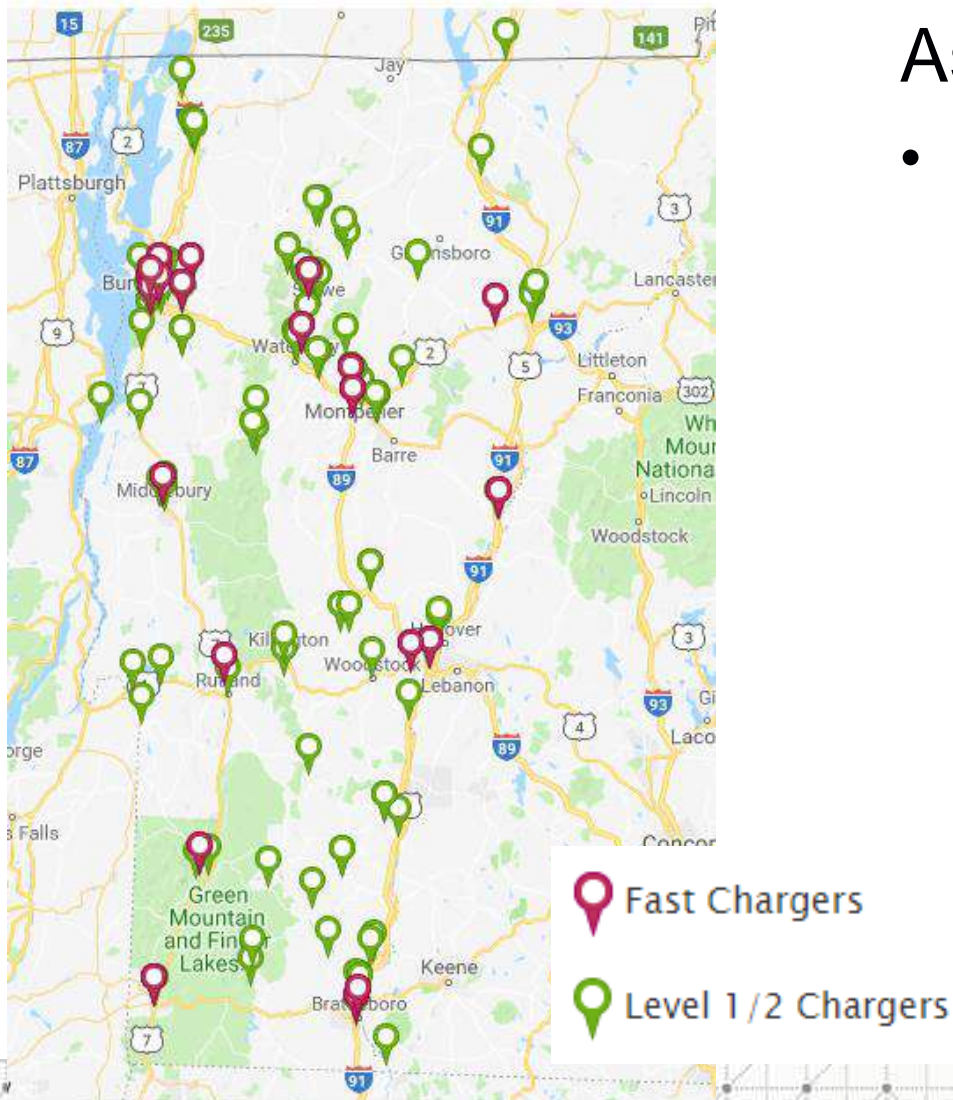


Source: Center for Sustainable Energy - MOR-EV , CVRP and CHEAPR Program Survey Analysis

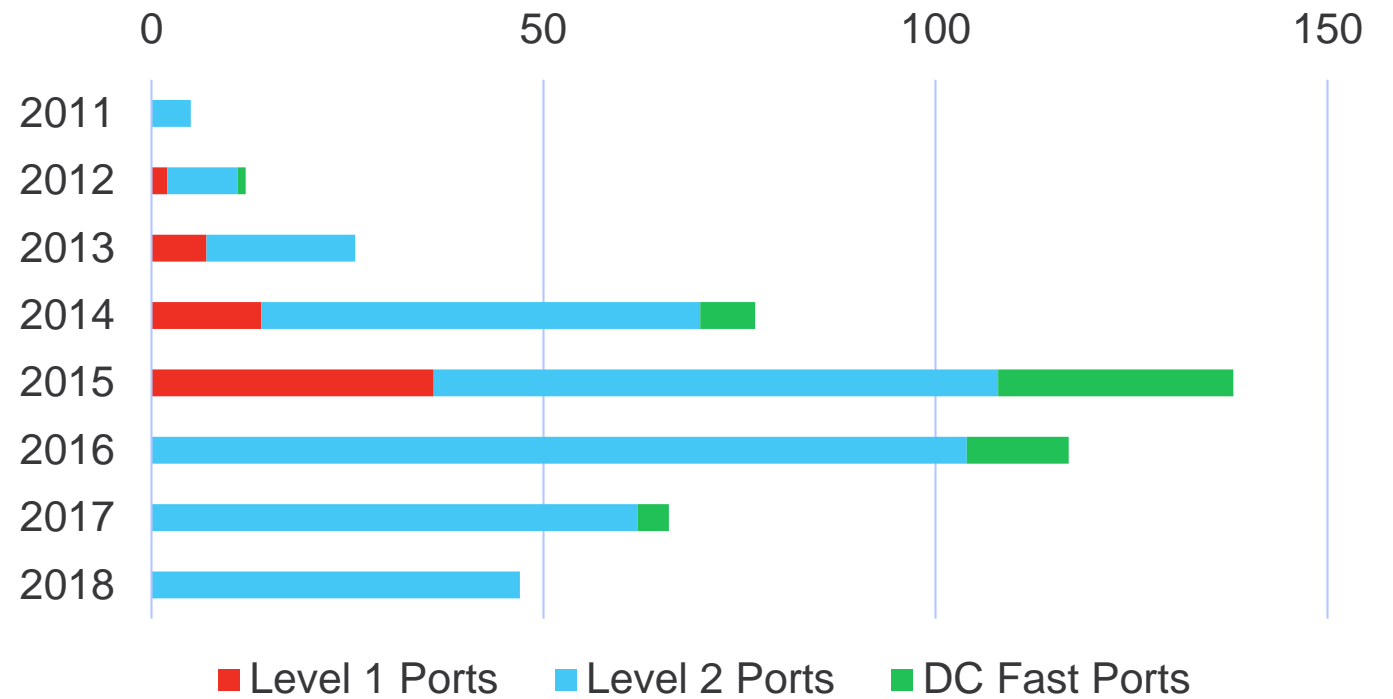
Public Charging Availability

As of September 2018

- 169 Public Locations, 23 with DC Fast Charging

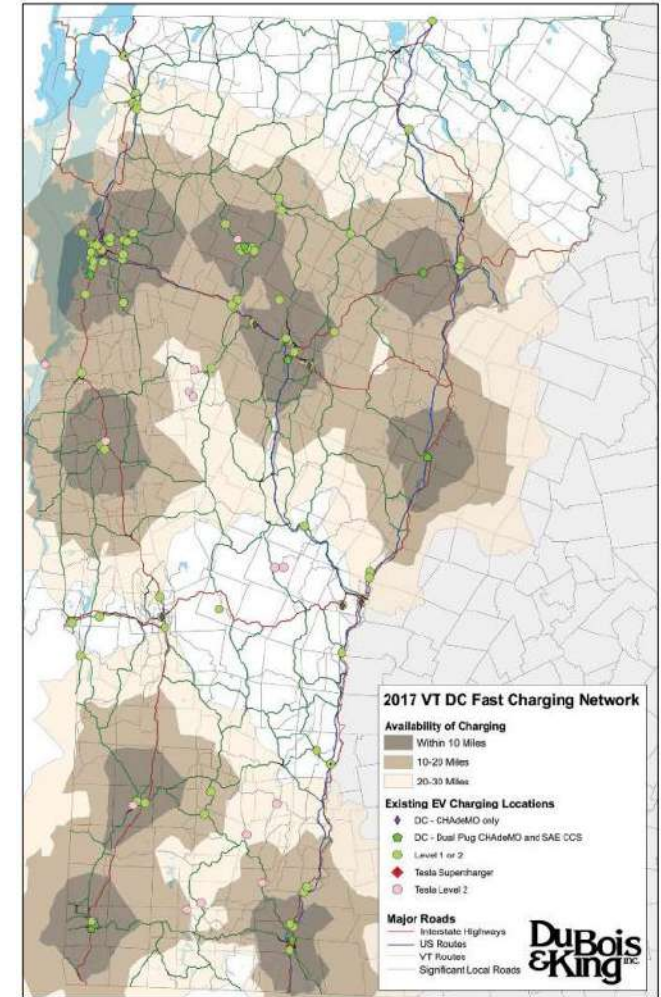


Public EV Charging Ports Installed by Year



Solutions – Charging Infrastructure

- VW settlement funded state grant program
- Building energy stretch code requirements
- VTrans park & ride EV charging grants
- VT PUC investigation underway
- Private investment



Solutions – Community Planning

- VT ACCD Guidance on preparing and updating local regulations to encourage electric vehicle charging.
- Includes tips to update use, parking, sign, performance, and procedural standards that easily accommodate this new technology in local bylaws.

ELECTRIC VEHICLE CHARGING STATION REGULATION
A Welcoming Approach to Electric Vehicle Plug-In Technology
Agency of Commerce | Department of Housing & Community Development
Community Planning and Revitalization Division
November 2018

Would it be difficult for your community to permit an electric vehicle charging station?

YES NO NOT SURE MAYBE IN MUD SEASON

What if it's a fueling island? What if it's only for fleet vehicles? What if it's not publicly accessible?

What if it's in an existing parking space? What if it's in the road's right-of-way? What if it's inside a building?

What if it's a proposed parking lot? What if it's ADA accessible?

Graphic Source: [New York State, Signs and Design Guidelines, 2012](#)

Get charged up! You got this.

[Link to Guidance](#)

Local Solutions

- EV demonstration events
 - Including e-bicycles
- Local media stories
- Charging network development
 - For visitors, customers and employees
 - State grant programs
- Fleet electrification

News > Business

Electric Vehicles a Big Draw at White River Junction Expo



Dozens of electric and hybrid vehicles filled the Dothan Brook School parking lot as hundreds of people attended the Upper Valley Electric Vehicle Expo on Saturday afternoon. (Photo by Ben DeFlorio)



By Rob Wolfe
Valley News Staff Writer

Solutions – Electric Buses

- GMT electric buses coming to Burlington and Montpelier!
- VT ANR pilot program launching in 2019 will include evaluations of both electric transit and school bus options

<https://anr.vermont.gov/node/1284>

Bring electric school buses to your district

VEIC is helping schools across the country make the switch to electric transportation. We've developed a number of resources to help you get started. These materials are informed by successes and lessons learned from deploying buses at other schools, including managing the Massachusetts Department of Energy Resources electric school bus pilot project.

Ready to get on the bus?



Getting started



Compare bus models



Know your utility bill



Charging guide



Funding buses



Draft bus specifications

<https://www.veic.org/electric-school-buses>

Summary

- EV use is growing, but challenges remain
- Many actions needed to overcome barriers
- Uncertain outlook for incentives
- More models needed to support market growth
- Charging infrastructure needs to expand

