

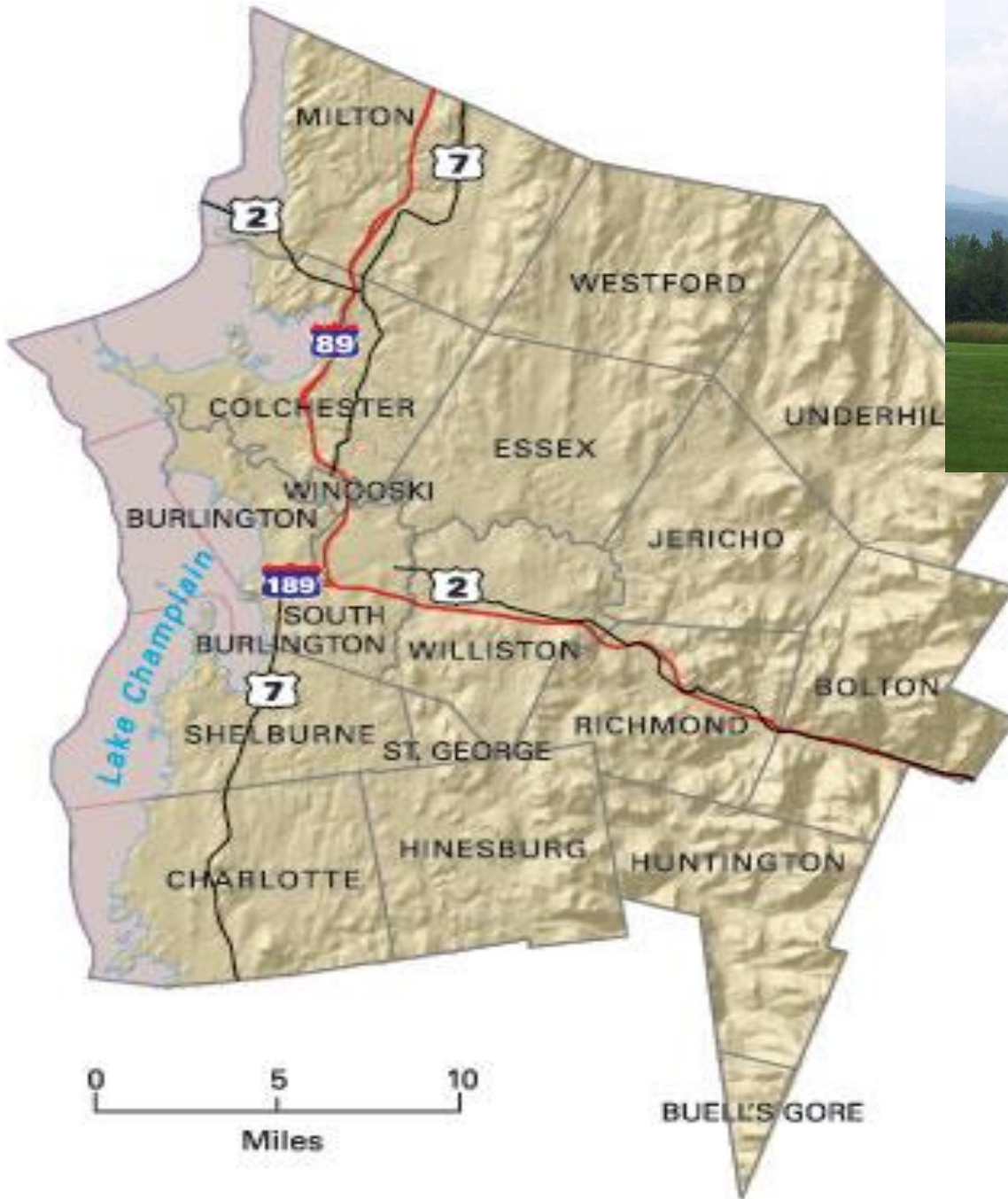
# THE VERMONT TRANSPORTATION ENERGY PROFILE

HOUSE TRANSPORTATION COMMITTEE  
JANUARY 22, 2014

GINA CAMPOLI  
VT AGENCY OF  
TRANSPORTATION







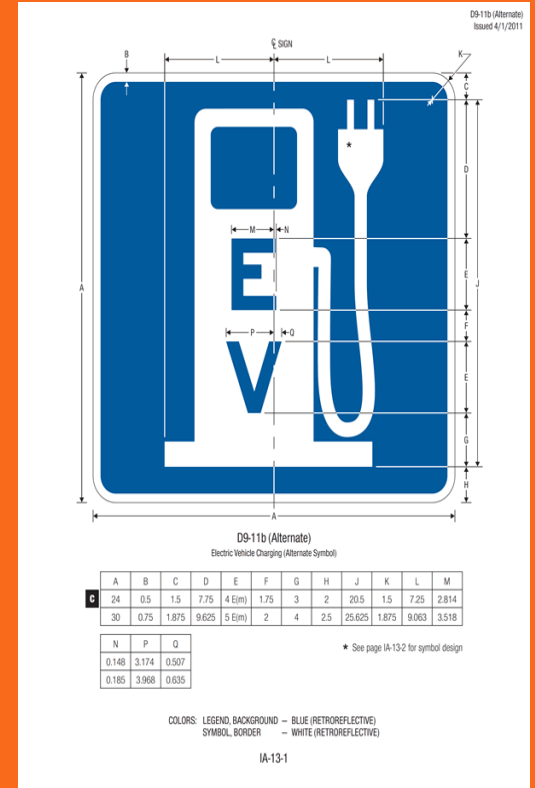
# GHG Reductions from Transportation

**Vehicles**

**Fuels**

**VMT**

**Vehicle/System Operations**





**VERMONT**  
ALL YOU NEED  
TO KNOW TO GO.





# COMPREHENSIVE ENERGY PLAN 2011: VERMONT'S ENERGY FUTURE

- ✓ Reduce transportation petroleum consumption
  - fuel switching and increased fleet efficiency
- ✓ Reduce energy use in the transportations sector by reducing and making trips more efficient
- ✓ Address the transportation funding dilemma – need more \$\$\$ but not through more use of fossil fuel
- ✓ Measure and evaluate progress



# CEP Transportation Objectives Metrics - Example

Ensure that 25% of all vehicles registered in Vermont are powered by renewable sources by 2030.

Metric	2013 Value	CEP 2030 Goal Value
Number of renewably-powered vehicles registered in Vermont, expressed as a percentage of all registered cars and trucks in Vermont	0.05%	25%



# The Vermont Transportation Energy Profile

## August 2013

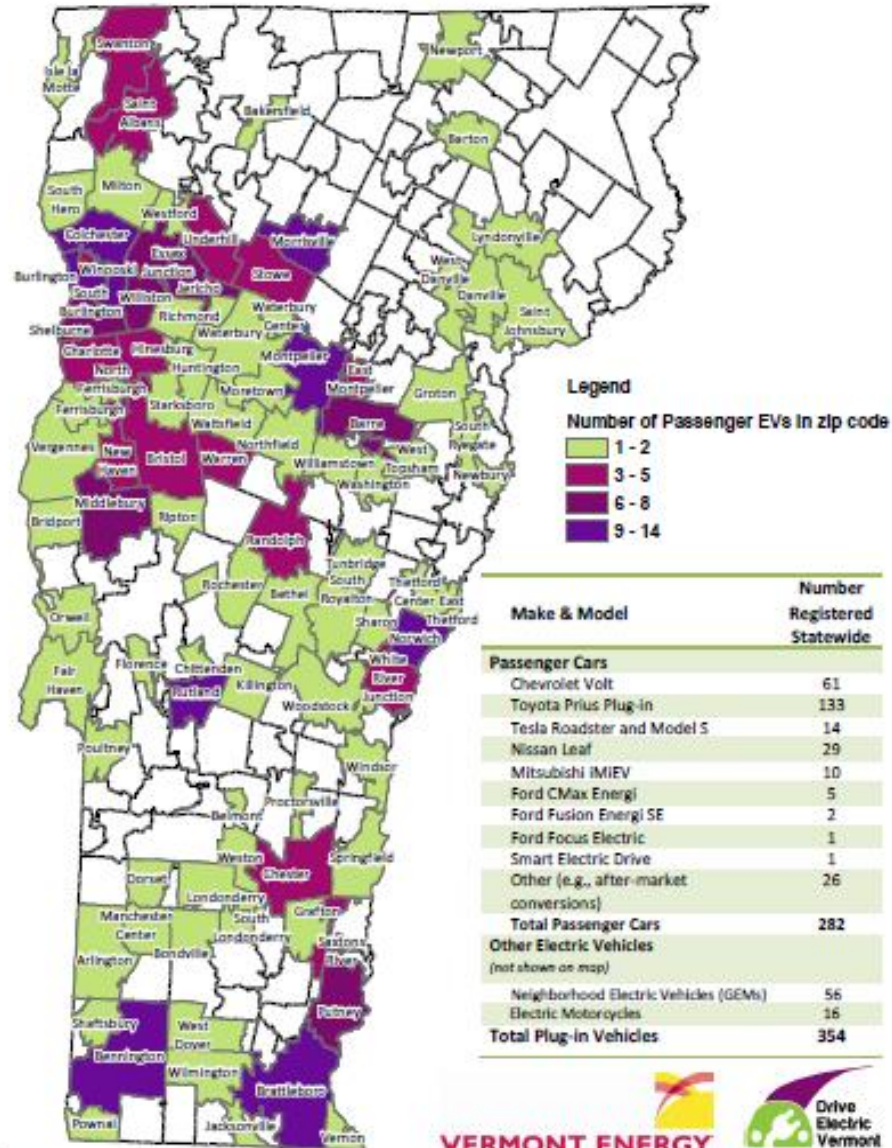


<http://vtransplanning.vermont.gov/reports>



# Electric Vehicles Registered in Vermont

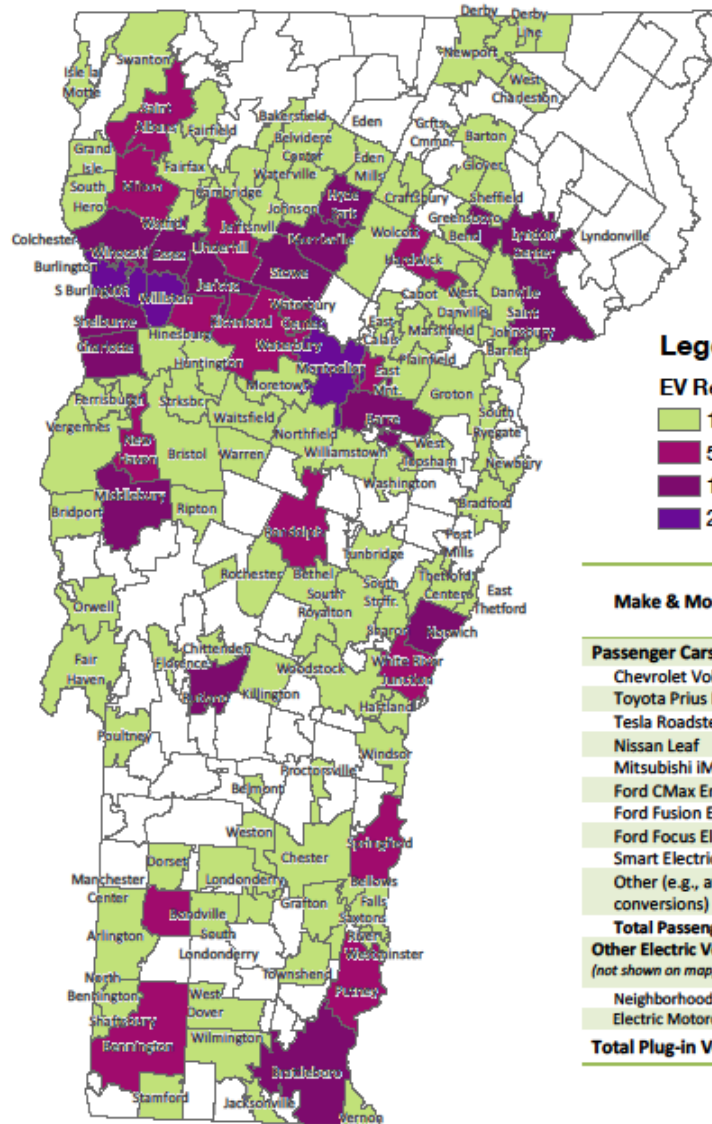
As of July 2013



Data Source: Vermont Department of Motor Vehicles vehicle registration database as of 7/2013. EVs distinguished by fuel type, model and/or VIN.

# Electric Vehicles Registered in Vermont

As of January 2014



## Legend

EV Registrations in Zip Code

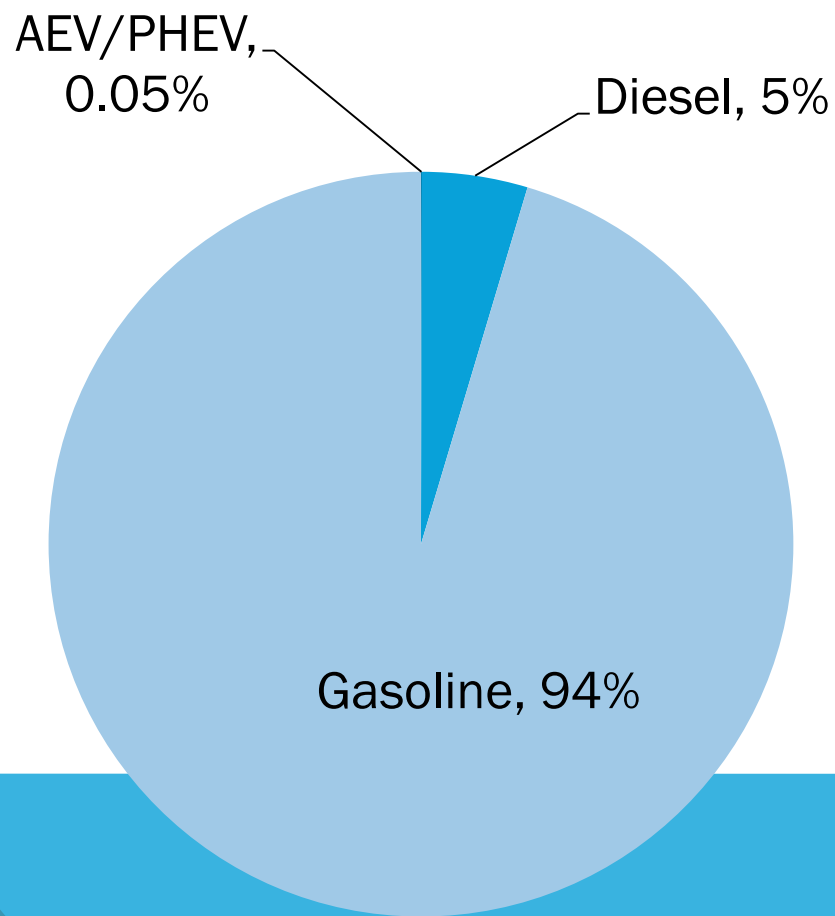
- 1 - 4
- 5 - 9
- 10 - 19
- 20 - 33

Make & Model	Number Registered Statewide
<b>Passenger Cars</b>	
Chevrolet Volt	91
Toyota Prius Plug-in	248
Tesla Roadster and Model S	21
Nissan Leaf	58
Mitsubishi iMiEV	23
Ford CMax Energi	79
Ford Fusion Energi PHEV	48
Ford Focus Electric	5
Smart Electric Drive	4
Other (e.g., after-market conversions)	19
<b>Total Passenger Cars</b>	<b>596</b>
<b>Other Electric Vehicles</b> <i>(not shown on map)</i>	
Neighborhood Electric Vehicles	70
Electric Motorcycles and Mopeds	13
<b>Total Plug-in Vehicles</b>	<b>679</b>

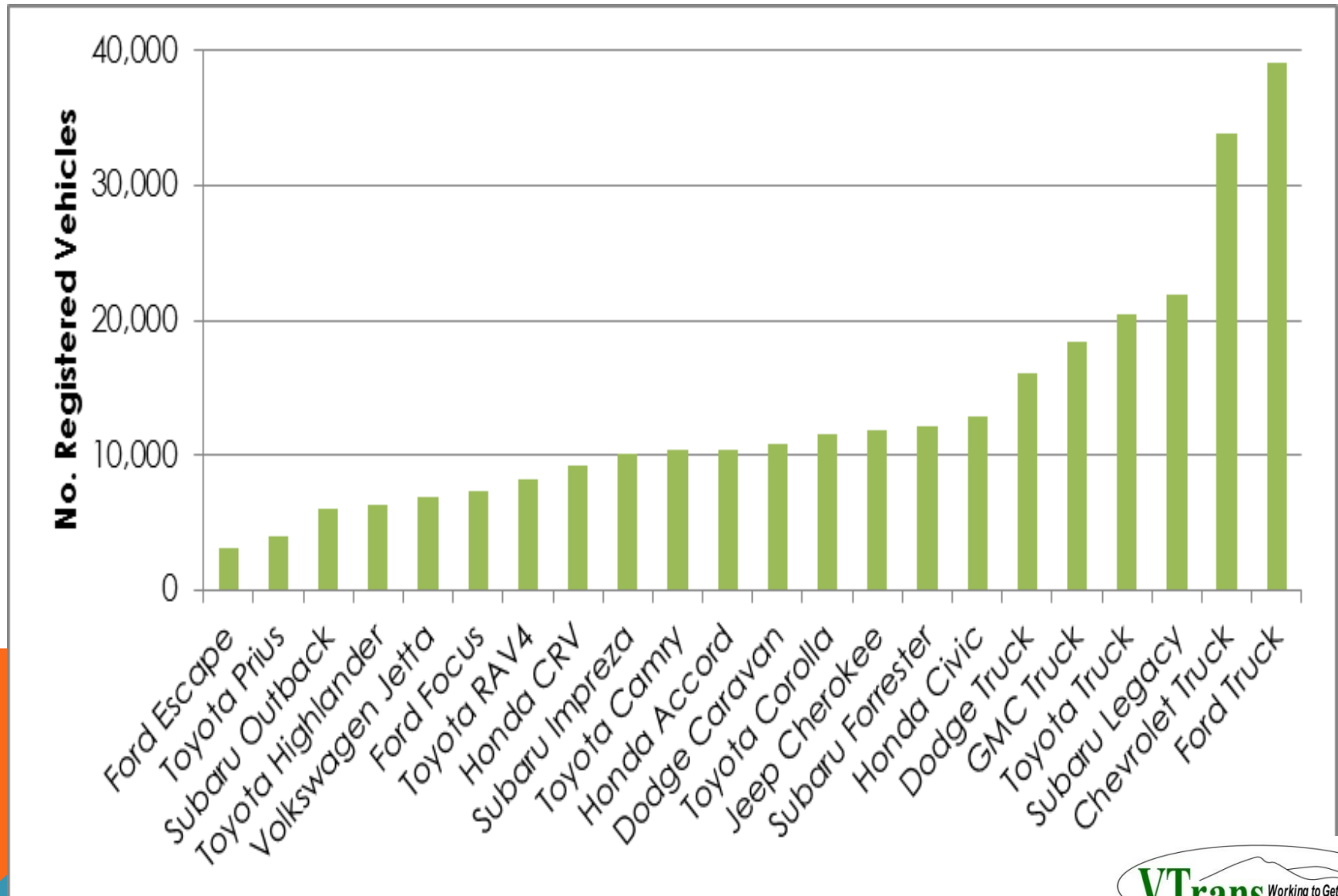
Data Source:  
Vermont Dept of Motor Vehicles vehicle registration database as of 12/28/2013.  
Data processed by Vermont Agency of Natural Resources Dept of Environmental Conservation. EVs distinguished by fuel type, model and/or VIN.

# Vehicle Registrations by Fuel Type

## VT DMV 2012



# Top 20 Vehicle Models Registered in Vermont, 2012 (VT DMV 2012)



# Vehicle Registrations and Driver's Licenses in Vermont, 2007-2011

	2007	2008	2009	2010	2011	Average % Change
Vehicle Registrations <sup>1</sup>	554,917	570,901	546,245	555,005	565,232	0.1%
Driver's Licenses	534,495	541,990	506,977	513,481	521,666	-1.0%
Learner's Permits	20,190	20,229	17,392	17,768	18,661	-2.9%
Vehicles per Licensed Driver <sup>2</sup>	1.04	1.05	1.08	1.08	1.08	1.1%
Registered Vehicles per Capita	0.89	0.92	0.88	0.89	0.90	-0.2%
Estimated Number of Households	317,837	319,901	321,429	322,907	324,389	0.5%
Vehicle Registrations per Household	1.75	1.78	1.70	1.72	1.74	-0.4%

**Notes:**

1. Does not include publicly owned fleet vehicles.
2. Holders of learner's permits are not considered licensed drivers in this ratio.

Sources: FHWA, 2011; USCB, 2012

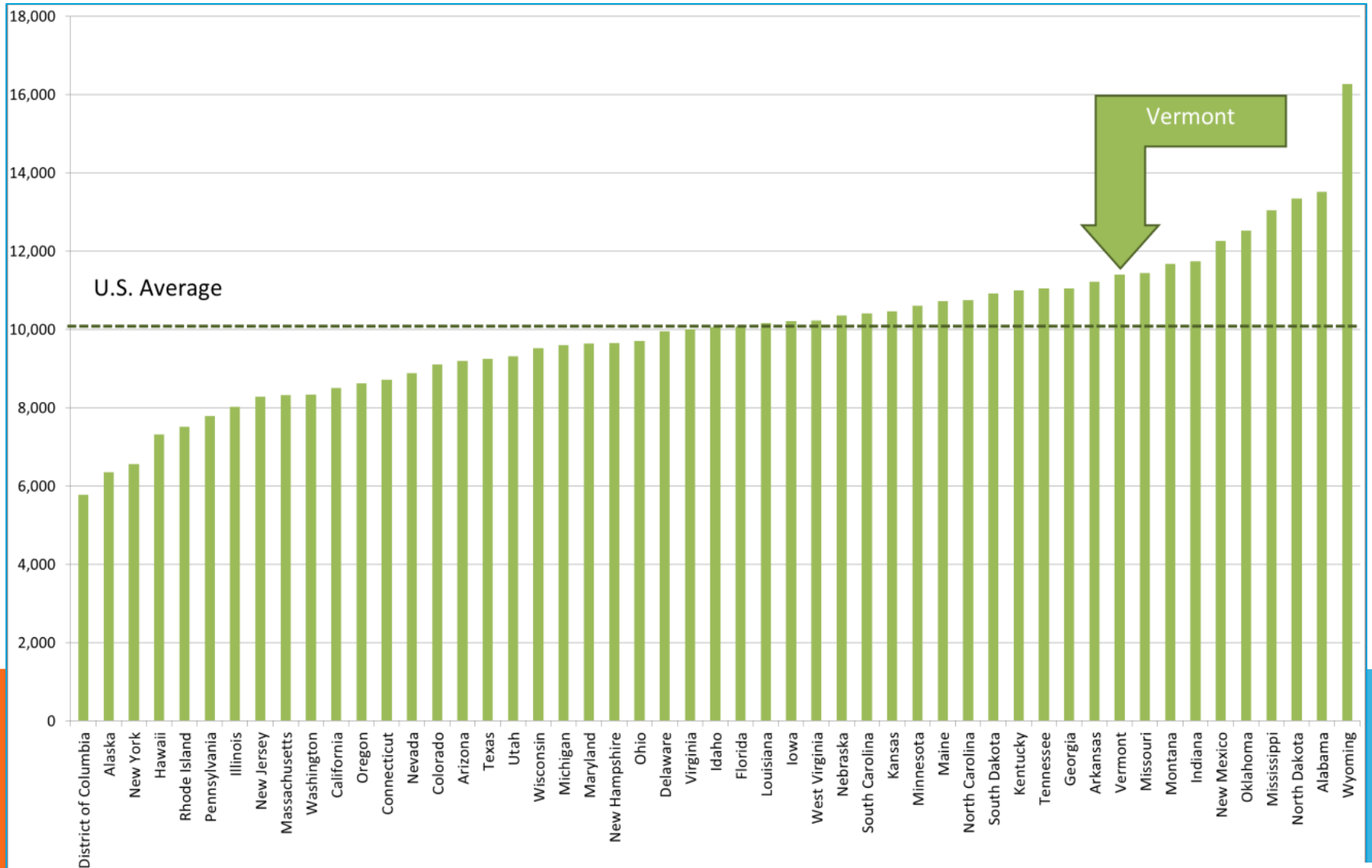


# Vehicle Miles of Travel (VMT) in VT

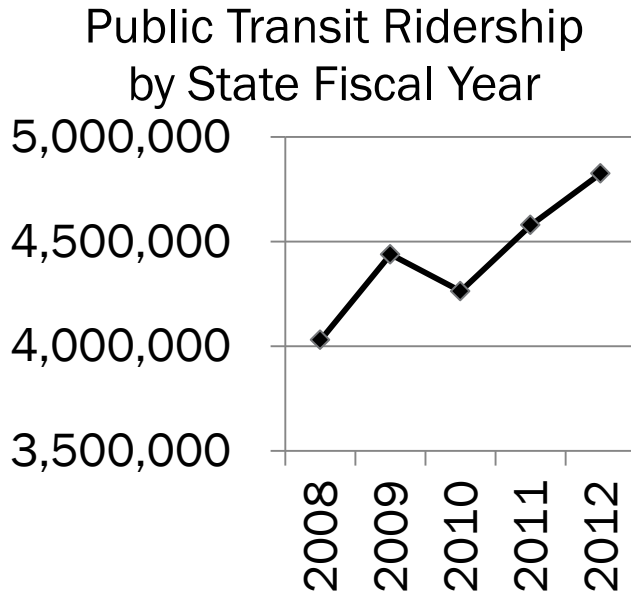
- 7.141 billion miles were traveled in Vermont in 2011
- 11.4 thousand miles were traveled in Vermont per capita
- Vermont exceeds national average VMT per capita by 20%
- Since 2008, both national and Vermont's VMT has stabilized and even decreased per capita
- Vermont's VMT per capita is decreasing at a lower rate (0.45%) compared to national reductions (0.75%)



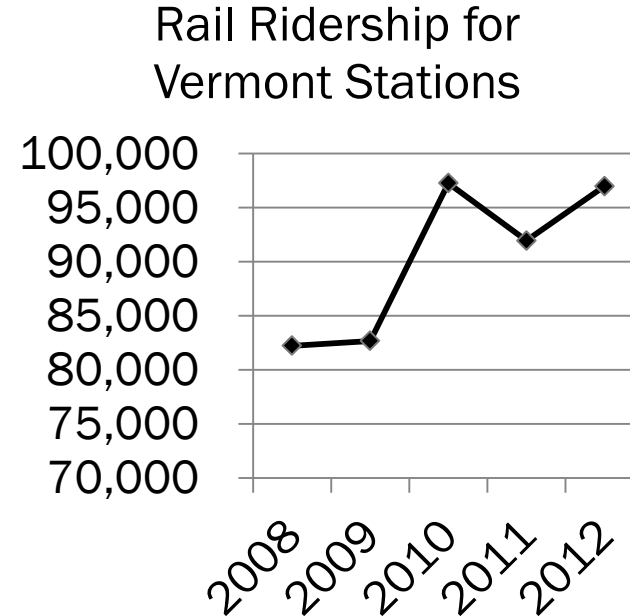
# 2011 VMT Per Capita for U.S. States (FHWA, 2011)



20% INCREASE IN PUBLIC  
TRANSPORTATION RIDERSHIP  
BETWEEN 2008 AND 2012



18% INCREASE IN RAIL  
RIDERSHIP BETWEEN 2008 AND  
2012



## VT TRANSIT AND RAIL RIDERSHIP



# The VT Transportation Energy Profile:

<http://vtransplanning.vermont.gov/reports>



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