Reducing Transportation Energy Use in Vermont

E2 Tech Expo 2016
Since 1986
reducing the economic and environmental costs of energy use
Transportation #1

Carbon Dioxide Emissions by Sector
Moving 12-Month Total

3,000 Million Metric Tonnes of Carbon Dioxide

Electric Power
Transportation

Source: DOE, EIA, May 2016 Monthly Energy Review

February 2016
Maine Greenhouse Gas Emissions By Source

- Transportation: 47%
- Electric Power: 14%
- Residential: 16%
- Commercial: 11%
- Industrial: 12%

Transportation Energy Use - Maine

- Residential: 31.39%
- Commercial: 21.42%
- Industrial: 16.20%
- Transportation: 30.99%

Source: 2014 Maine State Energy Profile
Transportation Energy Burden in VT

Figure 1. Components of total energy spending for Vermont households.

Source: Mapping Total Energy Burden in Vermont; Efficiency VT, 2016
Why Else Should We Care?

- Aging
- Obesity
- Land Use
- Air Quality
- Economic Development
- Equity
VT Comprehensive Energy Plan

2016 Vermont Comprehensive Energy Plan

90% Renewable by 2050

Reduce Total Energy by 1/3 by 2050
CEP Transportation Goals

- Reduce total transportation energy use by 20% from 2015 levels by 2025
- Increase share of renewable energy in all transportation to 10% by 2025 and 80% by 2050
- Reduce transportation-emitted GHGs by 30% by 2025
CEP Transportation Strategies: More Efficient Vehicles
CEP Transportation Strategies: Land Use and Transportation Options
Supporting Transportation Options

Bus Information
Carpool
Vanpool
Biking
Trains
Ferries
For Employer

Walk - Bike - Take the Bus
Carpool - Telecommute

Complete Streets
a guide for Vermont communities
CEP Transportation Strategies: Decarbonize transportation fuels
But Wait There’s More...
Sustainable, Efficient Mobility

8 to 80
Electrify Transportation
Big Data and Big Trends
Breakdown Silos
Thank You!
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