Stakeholder Meeting
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Welcome and Introductions

Vermont Fuel and Fleet Updates – Annual Report from 2018

Brief overview of regional, state, and local transportation energy plans

Expanding Biofuels in Vermont’s Transportation Sector – Matt Cota

VT Clean Cities Projects Update

Local Sustainable Transportation Options from GreenCab – Charlie Herrick

Updates from Stakeholders

Closing Remarks
Annual Report 2018 by the numbers

2018 Gallons of Gasoline Equivalent Reduced
1,303,458 gallons

- Vehicle Miles Traveled Reductions (5.1%)
- Off-Road Vehicles (0.06%)
- Idle Reduction (4.0%)
- Hybrid Vehicles (9.4%)
- Alternative Fuel Vehicles (31%)
- Electric & Plug-In Vehicles (4.3%)
- Fuel Economy Improvements (46%)

2018 Greenhouse Gas Emissions Reduced
11,363 tons

- Vehicle Miles Traveled Reductions (7.2%)
- Off-Road Vehicles (0.01%)
- Idle Reduction (5.7%)
- Hybrid Vehicles (13%)
- Alternative Fuel Vehicles (5.9%)
- Electric & Plug-In Vehicles (2.5%)
- Fuel Economy Improvements (65%)
Annual Report 2018 by the numbers

**Historical Gallons of Gasoline Equivalent Reduced**

- 2000: 790.8k gal
- 2001: 314.1k gal
- 2002: 314.1k gal
- 2003: 394.2k gal
- 2004: 548.9k gal
- 2005: 869.1k gal
- 2006: 922.7k gal
- 2007: 954.7k gal
- 2008: 1.3M gal
- 2009: 1.500k gal

**Historical Greenhouse Gas Emissions Reduced**

- 2009: 5.3k tons
- 2010: 4.2k tons
- 2011: 3.8k tons
- 2012: 4.3k tons
- 2013: 4.3k tons
- 2014: 6.4k tons
- 2015: 6.3k tons
- 2016: 6.9k tons
- 2017: 11.4k tons
- 2018: 12.5k tons

- Off-Road Vehicles
- Fuel Economy Improvements
- Vehicle Miles Traveled Reductions
- Idle Reduction
- Hybrid Vehicles
- Electric & Plug-In Vehicles
- Alternative Fuel Vehicles
Annual Report 2018 by the numbers

2018 Gallons of Gasoline Equivalent Reduced by Fuel Type for Alternative Fuel Projects
585,582 gallons
- Propane (11%)
- Biodiesel (6.5%)
- Mixed EVs and PHEVs (7.1%)
- CNG (17%)
- Hybrid (21%)
- Electric (1.5%)
- Liquidified Natural Gas (36%)

2018 Greenhouse Gas Emissions Reduced by Fuel Type for Alternative Fuel Projects
2,467 tons
- Propane (1.3%)
- Biodiesel (14%)
- Mixed EVs and PHEVs (8.8%)
- CNG (3.4%)
- Liquidified Natural Gas (6.5%)
- Electric (1.8%)
- Hybrid (61%)
Transportation Energy Plans

- Transportation Climate Initiative (TCI)
- Comprehensive Energy Plan
- Burlington Net Zero Energy Road Map
TCI

Public input on this framework document is open until November 5

https://www.transportationandclimate.org/main-menu/tci-regional-policy-design-stakeholder-input-form
Clean Cities Portfolio of Technologies

Alternative and Renewable Fuels
- Biodiesel
- Electricity
- Ethanol (E85)
- Hydrogen
- Natural gas
- Propane

Fuel Economy
- Fuel efficiency
- Behavioral changes
- Vehicle maintenance initiatives
- Vehicle miles traveled (VMT)

Idle Reduction
- Technologies
- Behavioral changes

Trip Elimination
- Telecommuting
- Ridesharing

Hybrids
- Light- and Heavy-duty HEVs
- PHEVs
EVSE & Electrification Projects

- UVM VW EVSE Grant
  - Awarded over $40,000
  - 3 dual-port L2 stations

- MUD EVSE
  - USDN Innovation Grant
  - BTV NZE EVmatch focus on MUDs

- UVM Nissan LEAF rebate
  - $5,000 for staff & students
  - Combined with federal & local incentives
  - Extended to January 2020
Idle Reduction & Fuel Efficiency

- **UVM Police Idle Reduction**
  - 8 vehicles with IdleRight 2 System
  - August 2019 Installation - data still being collected
  - From 1 vehicle in 1 month:
    - $117 in fuel/maintenance savings
    - 32 gallons of fuel saved

- **UVM Print & Mail Hybrid Upfit**
  - XL Hybrid Upfit System

- **EAN Summit Idle Reduction Pitch**
Active Transportation & VMT Reduction

• CarShare Vermont
  – 1 CarShare vehicle displaces 15 privately owned vehicles
  – Added Nissan LEAF to fleet!

• E-bikes – with incentives from utilities starting to aid in reducing VMT.

• Transportation for Vermonters – coalition work to help provide feedback to legislature on fleets, transportation issues and alternative fuels.
Outreach & Education Efforts

- Electric School Bus Pilot Outreach
  - Created a consolidated contact list
  - Shared data with VEEP & others
  - Support for school district contacts in the application process

- BTV Taxi Project with BED
  - Outreach to Burlington-based companies about potential EV incentive
  - BED Tier 3 Funds

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<th>Company Name</th>
<th>Business Start Date</th>
<th>Fleet Size</th>
<th>Fleet Vehicle Year(s) &amp; Model(s); Miles Driven/Year</th>
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<td>2014</td>
<td>2</td>
<td>2013 Honda Odysseys; ~50-60,000 miles/year</td>
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<tr>
<td>JD Taxi</td>
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<td>2017 Dodge Caravan; ~40,000 miles/year</td>
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<td>2014 Toyota Prius; n/a</td>
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<td>USA Taxi</td>
<td>2009</td>
<td>1</td>
<td>2013 Toyota Rav-4; n/a</td>
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<tr>
<td>89 Taxi</td>
<td>2012</td>
<td>2</td>
<td>2009 Honda Odysseys; n/a</td>
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<tr>
<td>Freedom Cab</td>
<td>2014</td>
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<td>2008 Toyota Sienna; n/a</td>
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<tr>
<td>S.D. Taxi</td>
<td>n/a</td>
<td>n/a</td>
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</table>
Events

• Bi-State EV Connector Recap
  – ~100 participants
  – Panel Presentations
    • Reflect on EV efforts and advancements
  – Vendor showcase:
    • Electric Vehicles
    • Utility Vehicles
    • Lawn Equipment
    • Charging Stations
    • Solar Tech
What's Next?

Stakeholder Updates; Funding & Project Support
Alternative Fuel & Advanced Tech Funding

• Volkswagen Settlement Funding
• DOE's Vehicle Technologies Office (VTO) Funding
  – FOAs
• Diesel Emissions Reduction Grants
VTCCC Resources

• Conferences, Events, & Trainings
• Grant Writing Support
• Outreach & Education
• Database Development
VTCCC Structure & Funding

- VTCCC modestly funded by Department of Energy.
  - Coordinator position is part-time & covers all VT.
  - Limited support from UVM.
- Looking to expand services to our stakeholders.
  - CC’s across country have different membership, sponsorship models to support this outreach.
- Exploring what level of interest in VT for expanding services through direct financial support from stakeholders.
Thank you!

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