G3: 1.1.c: Increase the number of plug-in electric vehicles registered in Washington from ~8,000 in 2013 to 50,000 by 2020

SUSTAINABLE ENERGY & A CLEAN ENVIRONMENT
CLEAN TRANSPORTATION

Department of Ecology
Stu Clark
Air Quality Program Manager
July 10, 2017
3.1.1. Reduce transportation-related greenhouse gas emissions from 44.9 mmt/yr to 37.5 mmt/yr by 2020.

### Background

**Onroad vehicles:** Dominant source of transportation GHG (2013)

- Onroad Gasoline: 53.4%
- Onroad Diesel: 19.7%
- Jet Fuel and Aviation Gasoline: 16.0%
- Natural Gas, LPG: 8.1%
- Marine Vessels: 1.5%
- Rail: 1.6%

- Onroad Gasoline
- Onroad Diesel
- Jet Fuel and Aviation Gasoline
- Natural Gas, LPG
- Marine Vessels
- Rail

3.1.1.c: Increase the number of plug-in electric vehicles registered in Washington from 8,000 in 2013 to 50,000 by 2020.

### Current State:

The state is not currently on target to meet the 2020 goal.

#### 1.1.c. Number of plug-in electric vehicles registered

- Target No. of EVs
- Actual No. of EVs

![Graph showing number of plug-in electric vehicles registered from 2012 to 2020](image-url)
3.1.1.c: Increase the number of plug-in electric vehicles registered in Washington from 8,000 in 2013 to 50,000 by 2020.

Background

Challenges/Opportunities

EV Infrastructure

Range Anxiety
3.1.1.c: Increase the number of plug-in electric vehicles registered in Washington from 8,000 in 2013 to 50,000 by 2020.

Strategies:

It’s an exciting time in Washington for electric vehicles.

Action Plan

<table>
<thead>
<tr>
<th>Tasks</th>
<th>Lead</th>
<th>Partners</th>
<th>Expected Outcome</th>
<th>Status</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conduct rulemaking for the new electric vehicle infrastructure pilot program.</td>
<td>WDOT</td>
<td>COM, DES, ECY, Parks, PLIA, UTC</td>
<td>WSDOT will have a draft rule publicly available by 8/16.</td>
<td>Completed</td>
<td></td>
</tr>
<tr>
<td>Develop draft guidance for the new electric vehicle infrastructure pilot program.</td>
<td>WSDOT</td>
<td>COM, DES, ECY, Parks, PLIA, UTC</td>
<td>Guidance for use of initial funding for siting and installation of publically-accessible EV charging infrastructure.</td>
<td>Completed</td>
<td>06/30/2017</td>
</tr>
<tr>
<td>Implementation of the electric vehicle Infrastructure pilot program</td>
<td>WSDOT</td>
<td>COM, DES, ECY, Parks, PLIA, UTC</td>
<td>Installation of priority DC fast charging stations</td>
<td>In Progress</td>
<td>06/30/2019</td>
</tr>
</tbody>
</table>
GOAL 5: 2.3 INCREASE MPG & INCREASE THE NUMBER OF ELECTRIC AND HYBRID VEHICLES

Department of Enterprise Services
George Carter III

7/9/2017

WA State Electric Fleets Initiative

5.2.3 Increase MPG to 18.4 by 2018

5.2.3a Increase the number of Hybrid, PHEV, and BEV

<table>
<thead>
<tr>
<th>Top 16 Fuel Use Agencies/Higher-Ed</th>
<th>Hybrid</th>
<th>PHEV</th>
<th>BEV</th>
<th>Target Date 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtotals</td>
<td>2,394</td>
<td>66</td>
<td>190</td>
<td>3,436</td>
</tr>
<tr>
<td>16 Agency Total</td>
<td>2,650</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5.2.3b Increase BEV from 11 in 2014 to 611 by 2020

Progress to date:
- Coordination with stakeholders
- 101 new Chevy Bolts
- 40 charging ports installed statewide
- Vehicle availability on Master Contract
- Vendor engagement (Green Lots, EVGO, Voyager, ChargePoint)
- DES awarded “Best Achievement in Electricity” from Western WA Clean Cities

Keys to Success:
- Collaboration and engagement
- Driver training – Ride & Drives
- Identify and address infrastructure needs
- Find “EV Ready” vehicles
- Support from executive leadership