



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



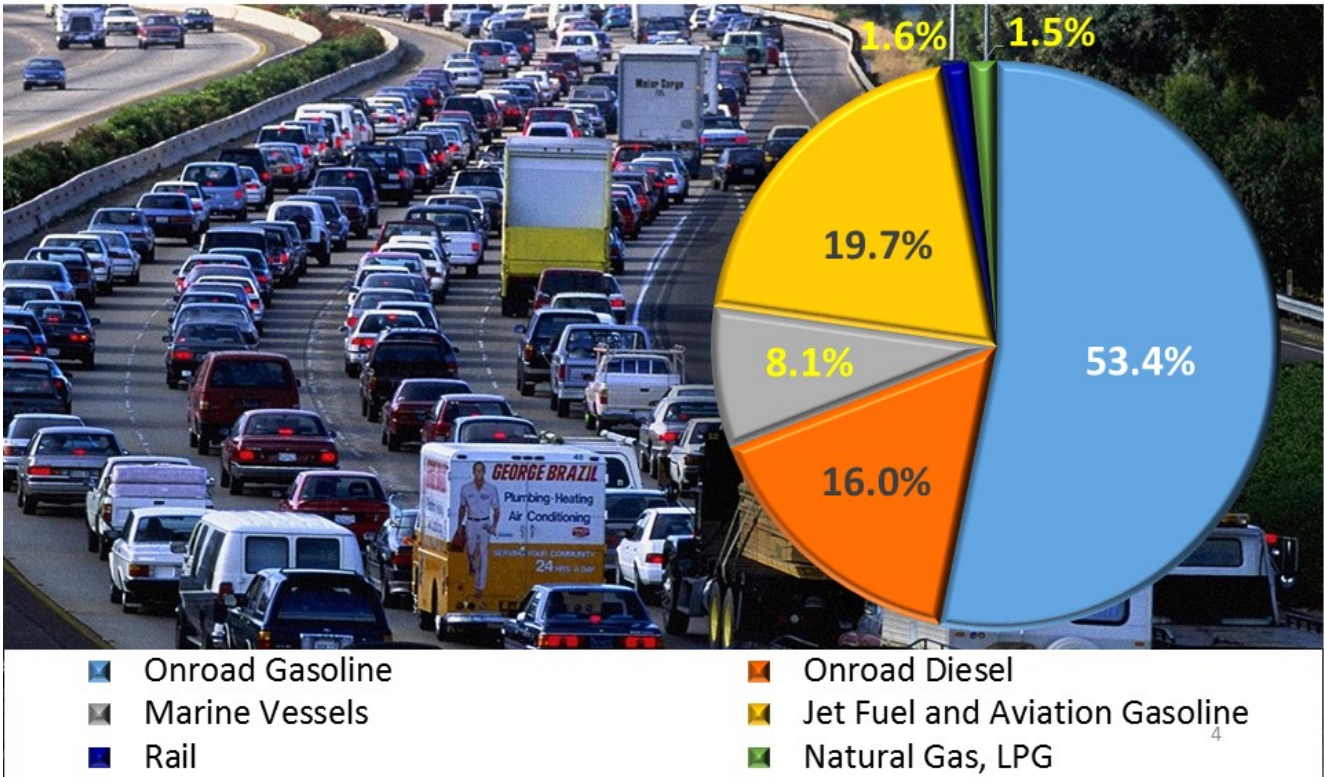
SUSTAINABLE ENERGY & A CLEAN ENVIRONMENT CLEAN TRANSPORTATION

Department of Ecology
Stu Clark
Air Quality Program Manager
July 10, 2017



Background

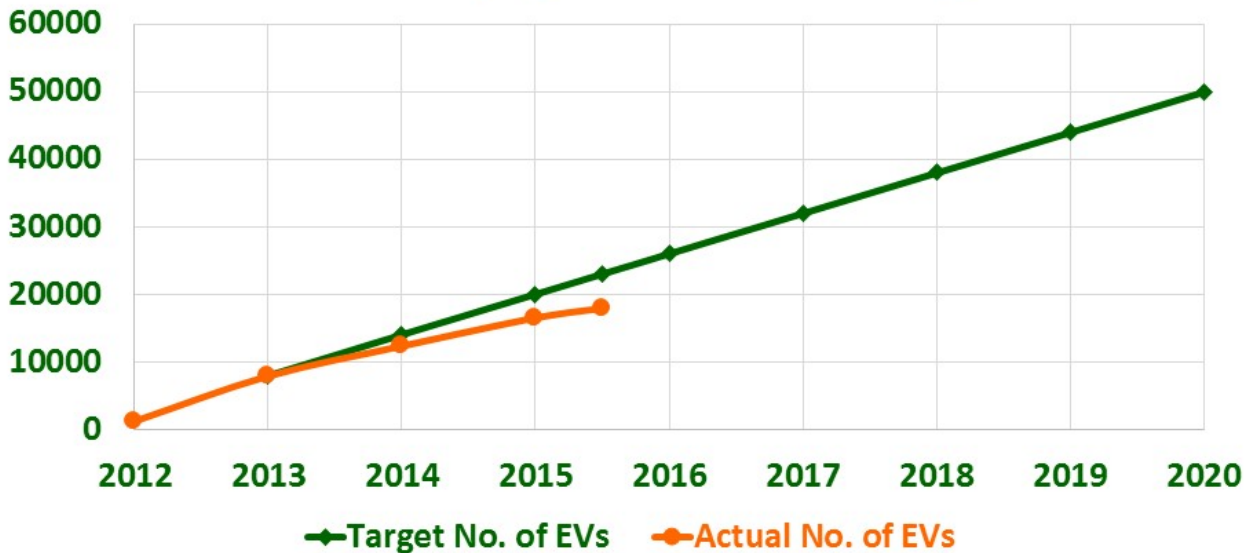
Onroad vehicles: **Dominant source of transportation GHG** (2013)



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.

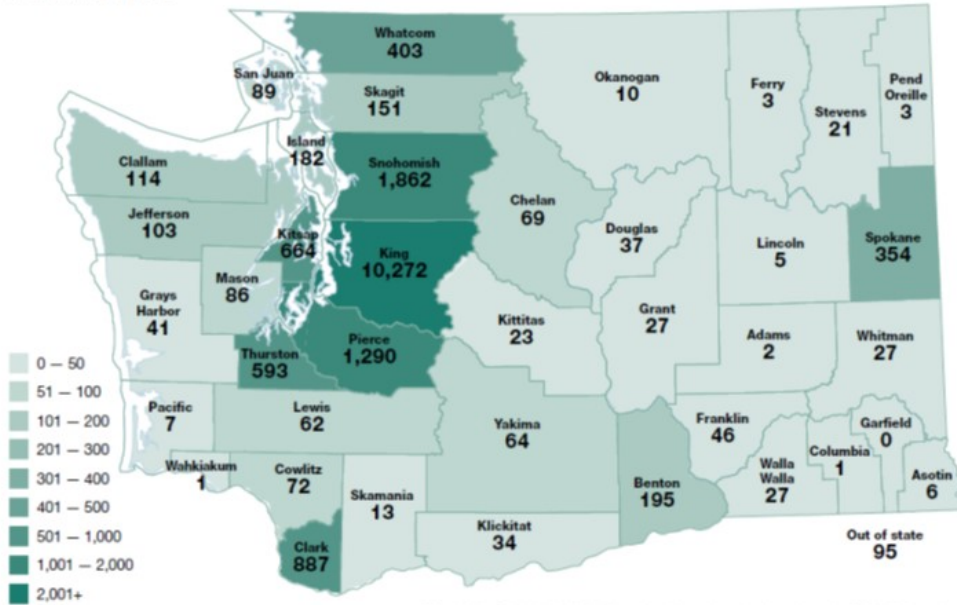
1.1.c. Number of plug-in electric vehicles registered



Background

17,941 Plug In Electric Vehicles Registered in Washington

As of June 30, 2016



Map includes Electric Vehicles (EVs) produced by major automakers since about 2011. It does not include cars that were converted to EVs by their owners, neighborhood EVs or EV models from the 1990's that are still registered in Washington, or motorcycles. WSDOT created this map based on data provided by the Washington State Department of Licensing.

16-09-0266

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Challenges/Opportunities



EV Infrastructure



Range Anxiety

17

Strategies:



Washington State Department of Transportation

Electric Vehicle Infrastructure Pilot Program (EVIPP)

Grant Application Guide

Grant Opportunity for DC Fast Chargers for Washington's Interregional Corridors

Application due date: May 12, 2017

www.wsdot.wa.gov/funding/partners/evib

Department of Ecology State of Washington

Volkswagen Federal Settlement

Carrollan Volkswagen (CVW) has admitted to installing illegal "defeat devices" software on 2.0 and 3.0 liter diesel vehicles in order to cheat federal emissions tests. The company has reached two settlements with the U.S. Environmental Protection Agency (EPA) that partially resolve the violation of the National Clean Air Act (NCAA).

Consent Decrees

The partial consent decrees have been filed with the federal court. The consent decrees detail VW's multi-billion dollar agreement to pay for consumer remedies, light duty zero emissions vehicle (ZEV) investments, and to reduce diesel engine pollution.

Washington is eligible to receive \$112.7 million.

As detailed in the settlement, VW has agreed to:

- Provide Consumer Relief to owners of VW vehicles that failed to meet federal emissions standards.
- Invest in and develop Zero Emissions Vehicle Infrastructure.
- Provide Mitigation Funds to states and tribes to offset excess nitrogen oxide emissions from the vehicles.

Consumer Relief

There are approximately 900,000 affected 2.0 and 3.0 liter diesel vehicles in the nation. About 22,000 of the vehicles are registered in Washington. Consumer remedies include buy backs, repairs, and cash settlements, depending on the engine size and pollution control equipment of the affected vehicles.

Zero Emissions Vehicle Infrastructure

As part of the 2.0 liter partial settlement, VW will invest \$1 billion over the next 10 years in ZEV infrastructure, such as charging stations and the provision of ZEVs. VW will invest \$300 million in California and \$1.3 billion throughout the rest of the nation. VW will provide an opportunity for public input on the type and locations of the ZEV investments they select. Washington and Oregon clearly submitted a proposal to VW recommending ZEV infrastructure projects in our states.

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

Action Plan

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

Tasks	Lead	Partners	Expected Outcome	Status	Due Date
Conduct rulemaking for the new electric vehicle infrastructure pilot program.	WSDOT	COM, DES, ECY, Parks, PLIA, UTC	WSDOT will have a draft rule publicly available by 8/16.	Completed	
Develop draft guidance for the new electric vehicle infrastructure pilot program.	WSDOT	COM, DES, ECY, Parks, PLIA, UTC	Guidance for use of initial funding for siting and installation of publically-accessible EV charging infrastructure.	Completed	06/30/2017
Implementation of the electric vehicle Infrastructure pilot program	WSDOT	COM, DES, ECY, Parks, PLIA, UTC	Installation of priority DC fast charging stations	In Progress	06/30/2019



GOAL 5: 2.3 INCREASE MPG & INCREASE THE NUMBER OF ELECTRIC AND HYBRID VEHICLES

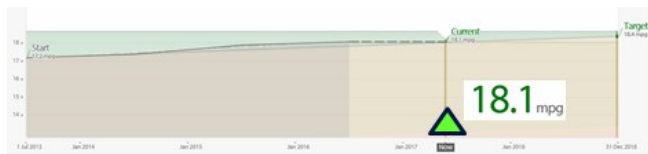
Department of
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George Carter III



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

Top 16 Fuel Use Agencies/Higher-Ed	Hybrid	PHEV	BEV	Target Date 2020
Subtotals	2,394	66	190	3,436
16 Agency Total	2,650			

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

Increase the number of BEVs	11 in 2014 to 611 by 2020
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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

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