



G3: 1.1: Reduce transportation related greenhouse gas emissions from 44.9 mmt/year (projected 2020) to 37.5 mmt/year(1990) by 2020



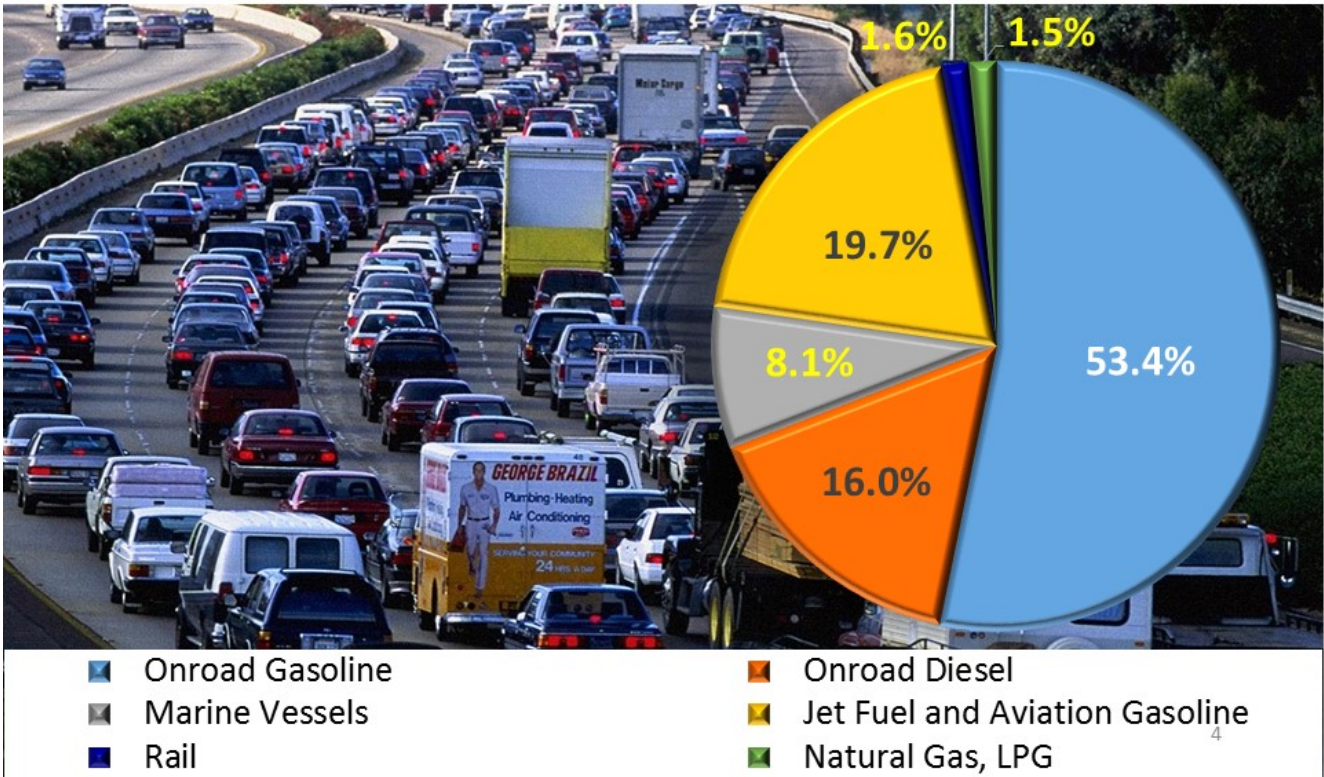
SUSTAINABLE ENERGY & A CLEAN ENVIRONMENT CLEAN TRANSPORTATION

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

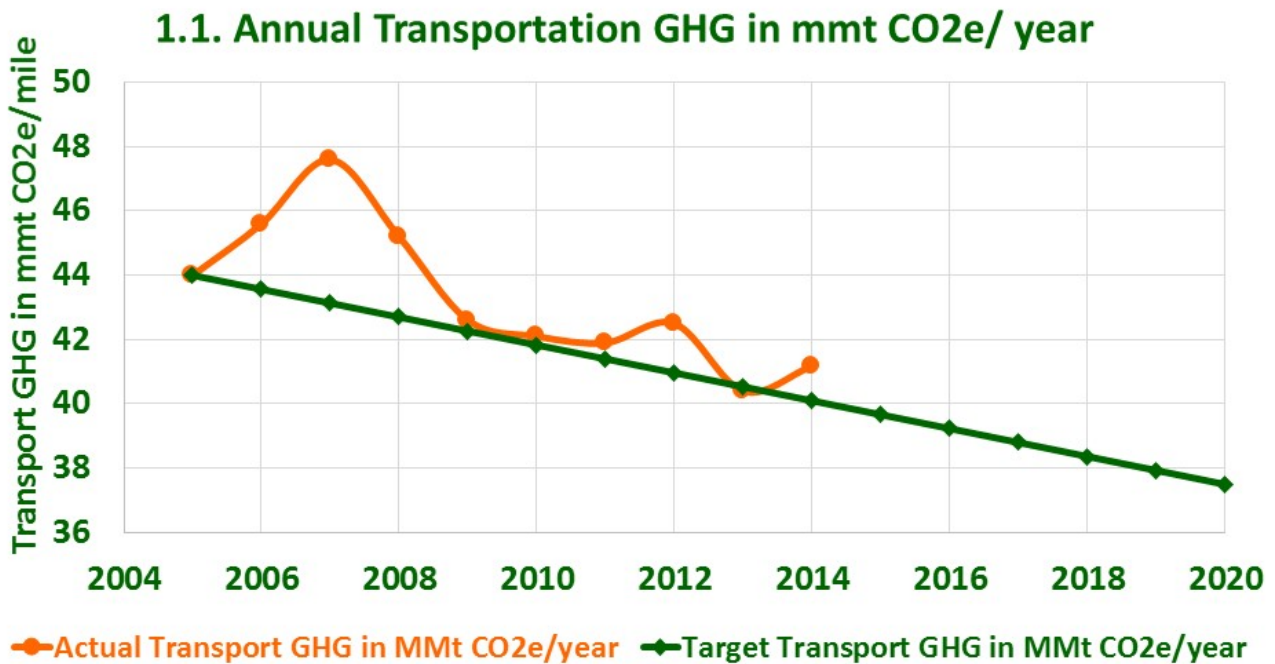


Background

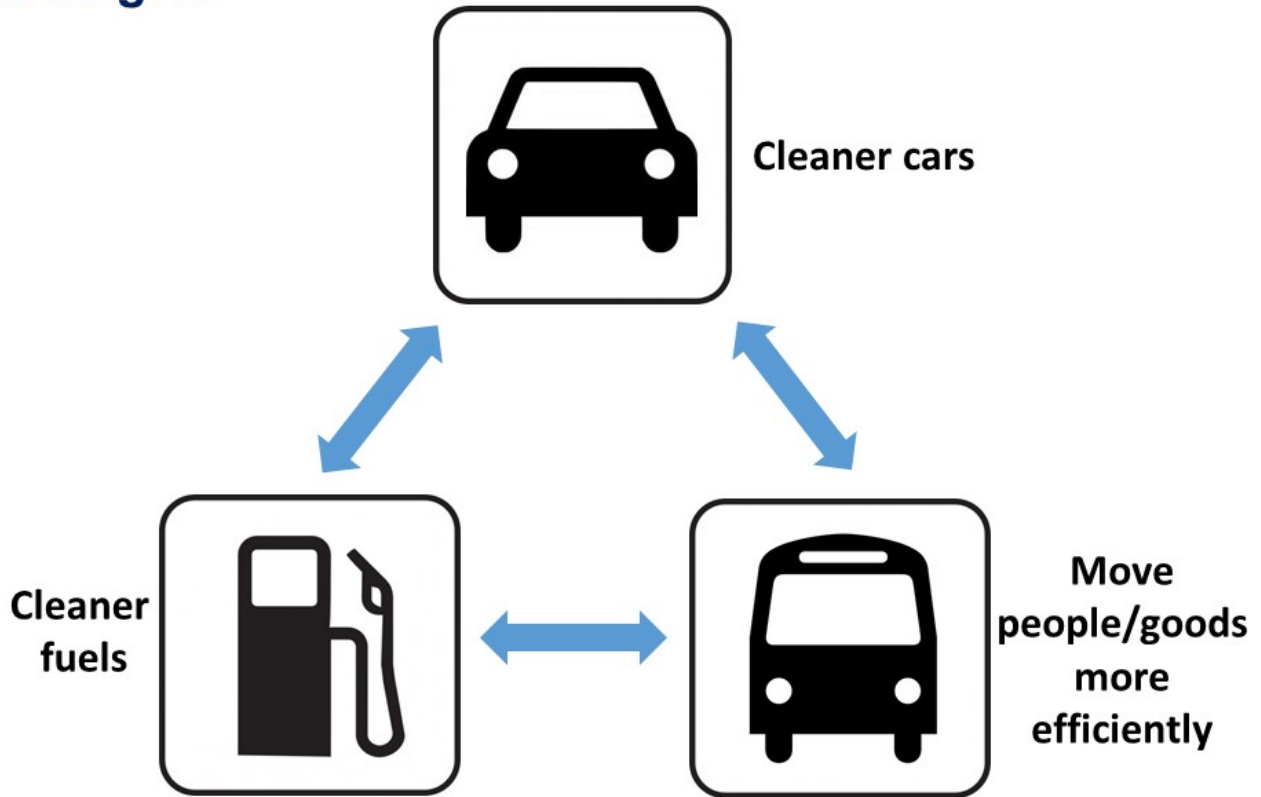
Onroad vehicles: Dominant source of transportation GHG (2013)



Current State: Off-Track (status changed in 2014)



Strategies



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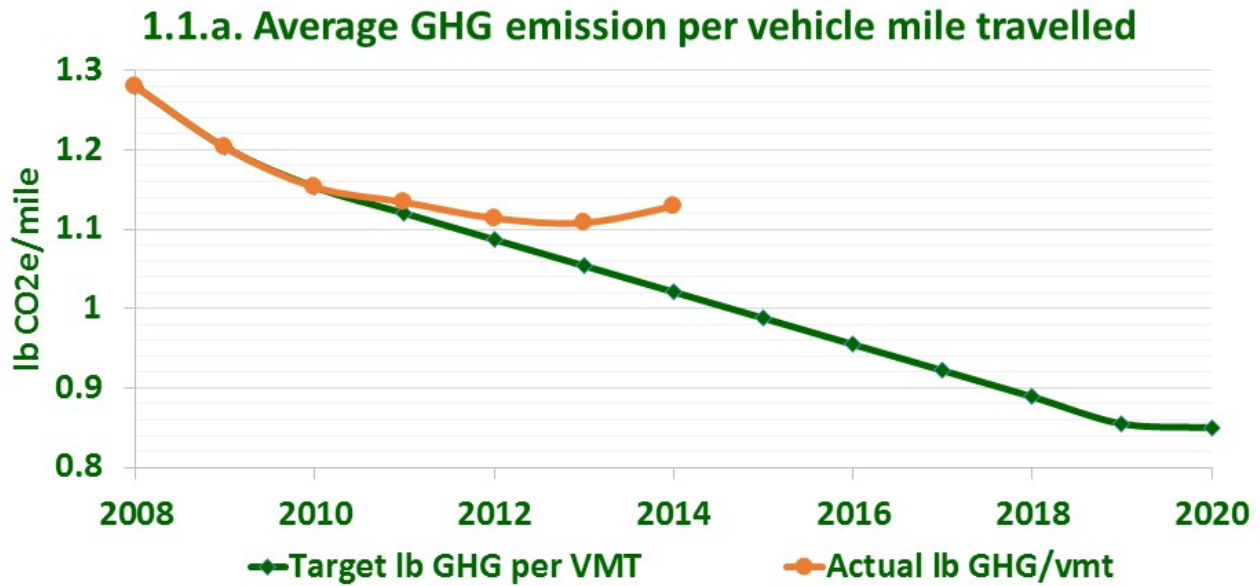
Action Plan

3.1.1: Reduce transportation-related greenhouse gas emissions from 44.9 mmt/yr to 37.5 mmt/yr by 2020.

Tasks	Lead	Partners	Expected Outcome	Status	Due Date
Complete WSDOT's multimodal, long-range statewide transportation plan (Phase 2).	WSDOT		The federally compliant multimodal plan will set strategies to increase efficiency and reduce costs and greenhouse gas emissions.	On-Track	12/01/2017

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



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Challenges/Opportunities



Incentives to encourage smart growth and development of livable communities.



Improvements in transportation system efficiency.



Promote alternative modes of travel.



Transportation planning and funding.

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Strategies

		Goals Set by State Laws			
State Law		Baseline	2020	2035	2050
RCW 70.235.020	Greenhouse gases Emission Reduction Goals in MMt CO ₂ /y	Actual 1990 level	1990 level	25% below 1990 level	50% below 1990 level
	Statewide GHG emission reduction goals in MMt CO ₂ e/year	88.4	88.4	66.3	44.2
RCW 47.01.440	Per Capita Annual Vehicle Miles Travelled (VMT) Reduction Goals	Projected 2020 level	18% below 2020 projection	30% below 2020 projection	50% below 2020 projection
	Statewide Per Capita Annual Vehicle Miles Travelled (VMT) Reduction Goals for vehicle weighing less than 10000 pounds ("Light duty vehicles")	8616	7065	6031	4308

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Action Plan

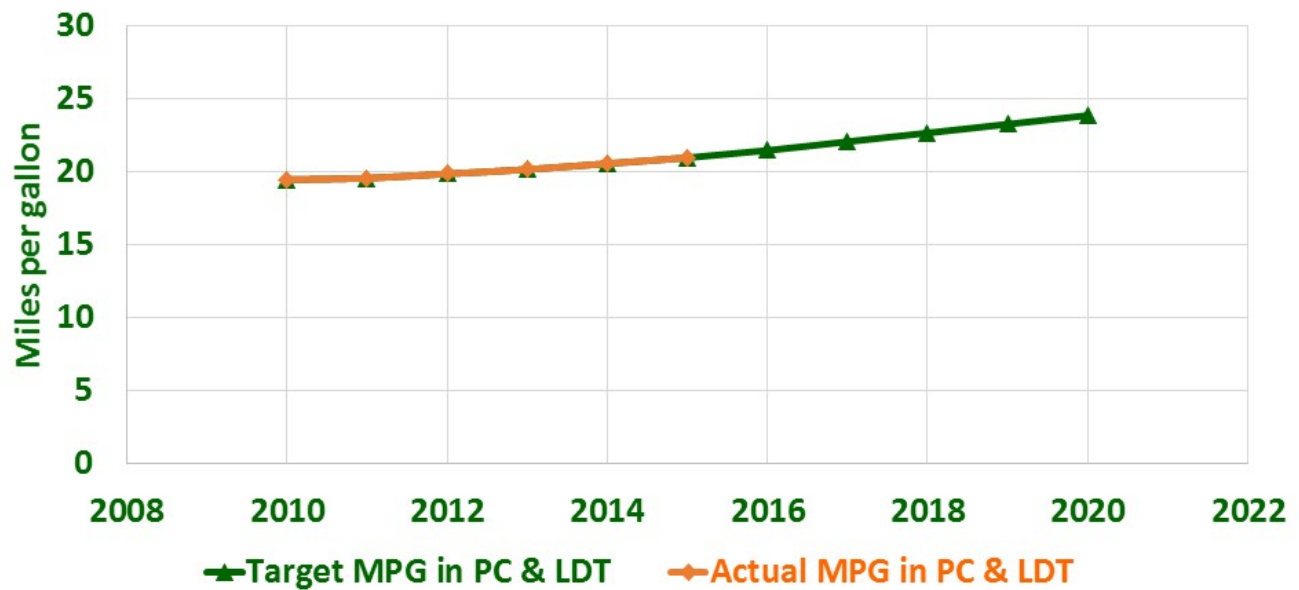
1.1.a: Reduce the average emissions of greenhouse gases for each vehicle mile traveled in Washington by 25% from 1.15 lbs in 2010 to 0.85 lbs in 2020.

Tasks	Lead	Partners	Expected Outcome	Status	Due Date
Finalize Transportation Efficiency Communities program, which is a joint agency technical assistance web-hub for resources.	WSDOT	ECY, COM, DOH	Provide local jurisdictions with information to develop local plans that include transportation efficiency considerations.	On-Track	08/31/2017
Protect the federal vehicle fuel economy and greenhouse gas emission standards.	ECY	Governor's Office; WSDOT; AGO	The federal fuel economy and greenhouse gas emission standards remain strong and continue to reduce the GHG emission from transportation sector.	On-Track	12/31/2019
Revise 3.1.1.a indicator to reflect latest information from 2014 VMT Forecast Model.	WSDOT	ECY	Indicator more accurately reflects latest data.		

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Current State: On-Track

1.1.b. Miles per gallon of passenger and light duty trucks



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Strategies



WEST COAST
ELECTRIC
HIGHWAY

Building stronger partnerships with Agencies and Stakeholders leading efforts for clean transportation.

- Clean Transportation
- West Coast Green Highway
- Transportation System Efficiency
- Transit System Improvements
- Incentives
- Fuel Efficient State Fleet (Goal 5.2.3)



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Action Plan

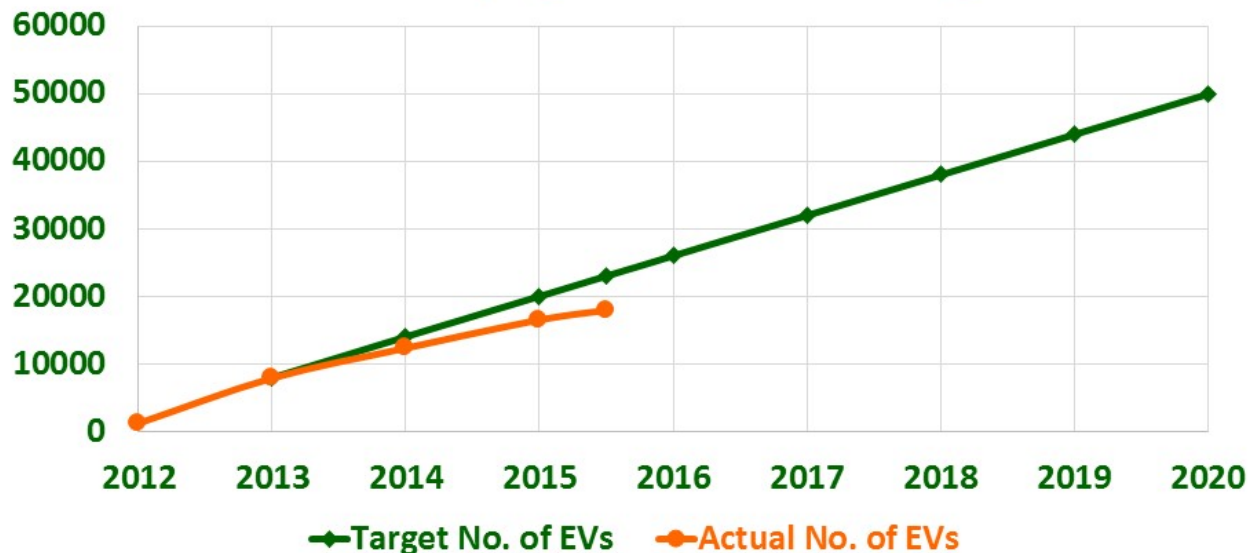
1.1.b: Increase the average miles per gallons of Washington’s overall passenger and light duty truck fleet from 19.2 mpg in 2010 to 23 mpg in 2020.

Tasks	Lead	Partners	Expected Outcome	Status	Due Date
To be determined					

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.

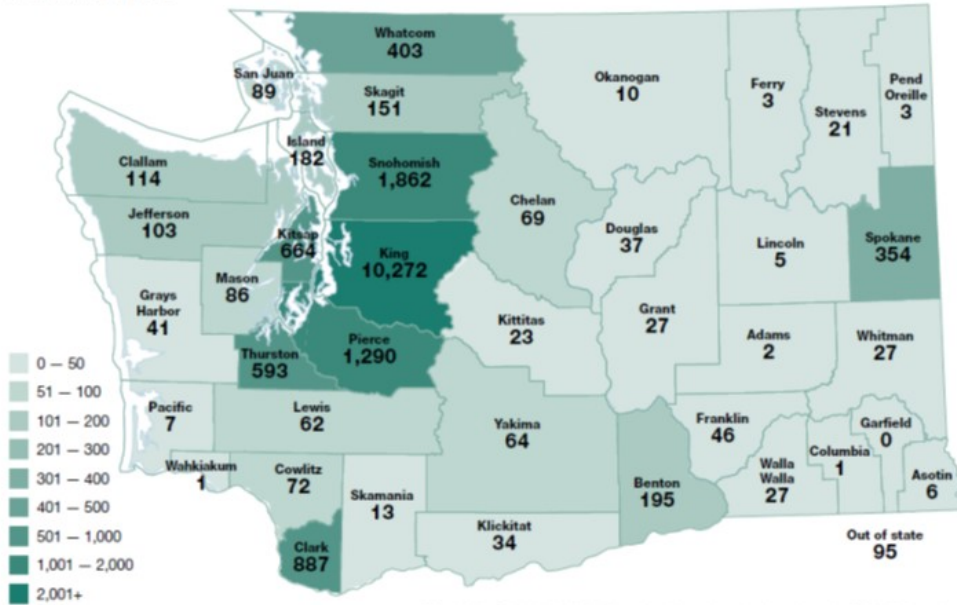
1.1.c. Number of plug-in electric vehicles registered



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

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Strategies:



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

Volkswagen Federal Settlement



Carrollan Volkswagen (CVW) has admitted to installing illegal "defeat devices" software on 3.0 and 3.6 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-emission vehicle (ZEV) investments, and to reduce diesel engine pollution.

Washington is eligible to receive \$112.7 million.

As detailed in the settlements, VW has agreed to:

- Provide Consumer Relief to owners of VW vehicles that failed to meet federal emissions standards.
- Invest in and develop Zero Emission 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 Emission 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

3.1.1: Reduce transportation-related greenhouse gas emissions from 44.9 mmt/yr to 37.5. mmt/yr by 2020

Tasks	Lead	Partners	Expected Outcome	Status	Due Date
Goal 3.1.1: Reduce transportation-related greenhouse gas emissions from 44.9 mmt/yr to 37.5. mmt/yr by 2020					
Complete WSDOT's multimodal, long-range statewide transportation plan (Phase 2).	WSDOT		The federally compliant multimodal plan will set strategies to increase efficiency and reduce costs and greenhouse gas emissions.	On-Track	12/01/2017
1.1.a: Reduce the average emissions of GHG for each vehicle mile traveled in Washington by 25% from 1.15 lbs in 2010 to 0.85 lbs in 2020.					
Finalize Transportation Efficiency Communities program, which is a joint agency technical assistance web-hub for resources.	WSDOT	ECY, COM, DOH	Provide local jurisdictions with information to develop local plans that include transportation efficiency considerations.	On-Track	08/31/2017
Protect the federal vehicle fuel economy and greenhouse gas emission standards.	ECY	Governor's Office; WSDOT	The federal fuel economy and greenhouse gas emission standards remain operations to reduce the GHG emission from transportation sector.	On-Track	12/31/2019
Revise 3.1.1.a indicator to reflect latest information from 2014 VMT Forecast Model.	WSDOT	ECY	Indicator more accurately reflects latest data.		
1.1.b: Increase the average MPGs of Washington's overall passenger and light duty truck fleet from 19.2 mpg in 2010 to 23 mpg in 2020.					
To be determined					
1.1.c: Increase the number of plug-in electric vehicles registered in Washington from 8,000 in 2013 to 50,000 by 2020.					
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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
Enterprise Services
George Carter III**



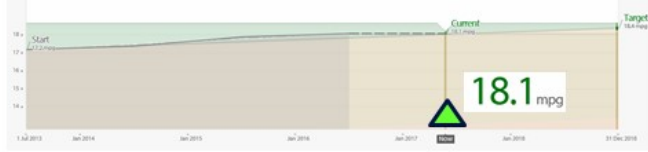
7/9/2017

WA State Electric Fleets Initiative



Department of
Enterprise Services
George Carter III

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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