RESULTS WASHINGTON

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

RESULTS WASHINGTON

SUSTAINABLE ENERGY & A CLEAN ENVIRONMENT

CLEAN TRANSPORTATION

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

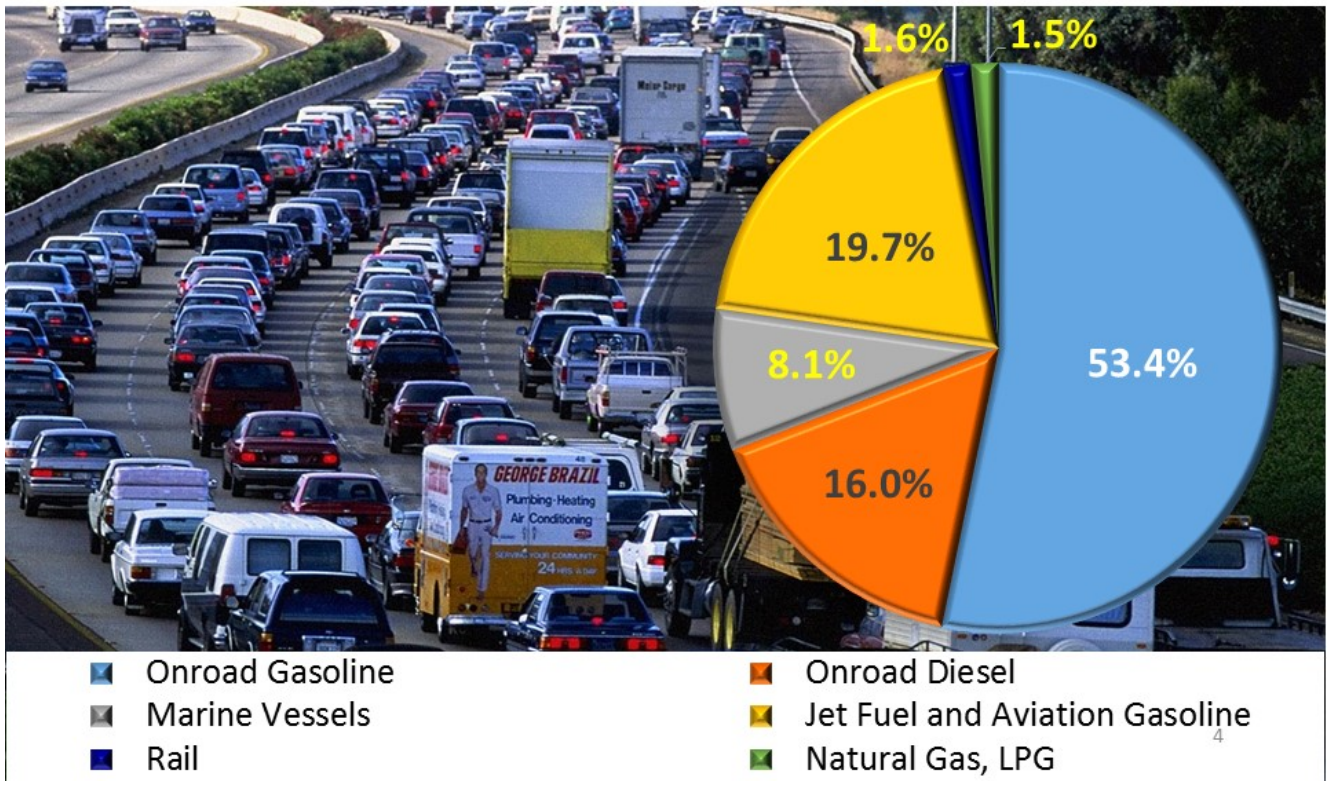
DEPARTMENT OF ECOLOGY
State of Washington

3

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

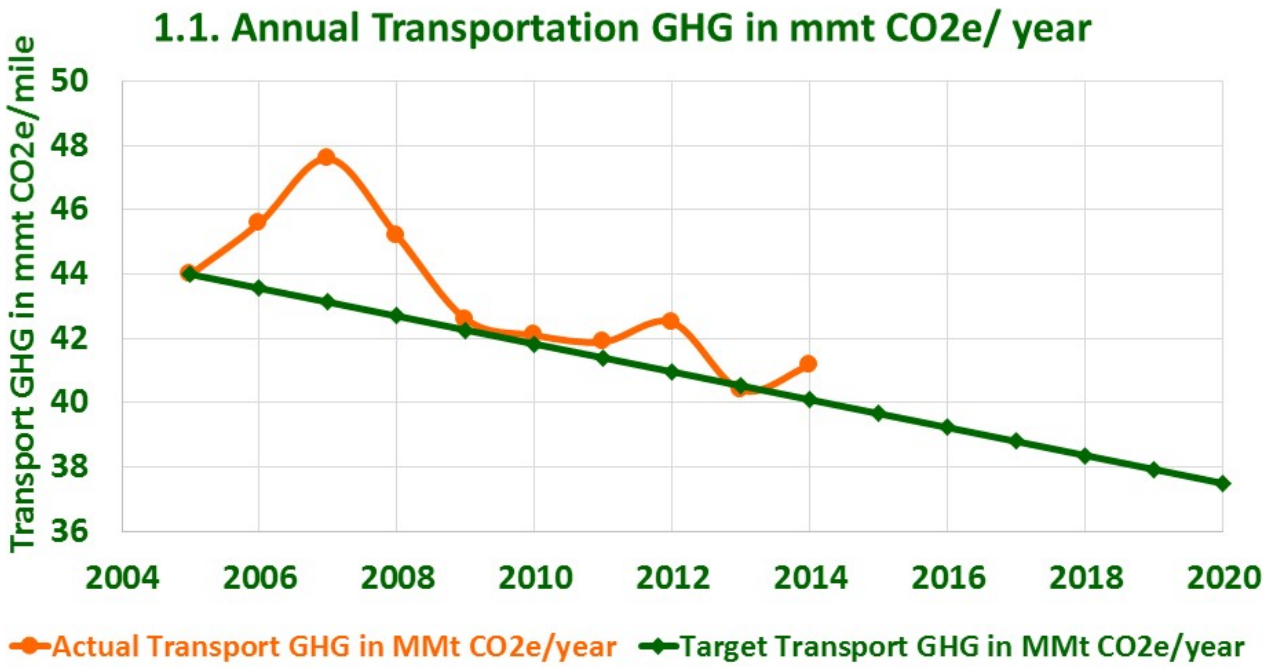
Background

Onroad vehicles: Dominant source of transportation GHG (2013)

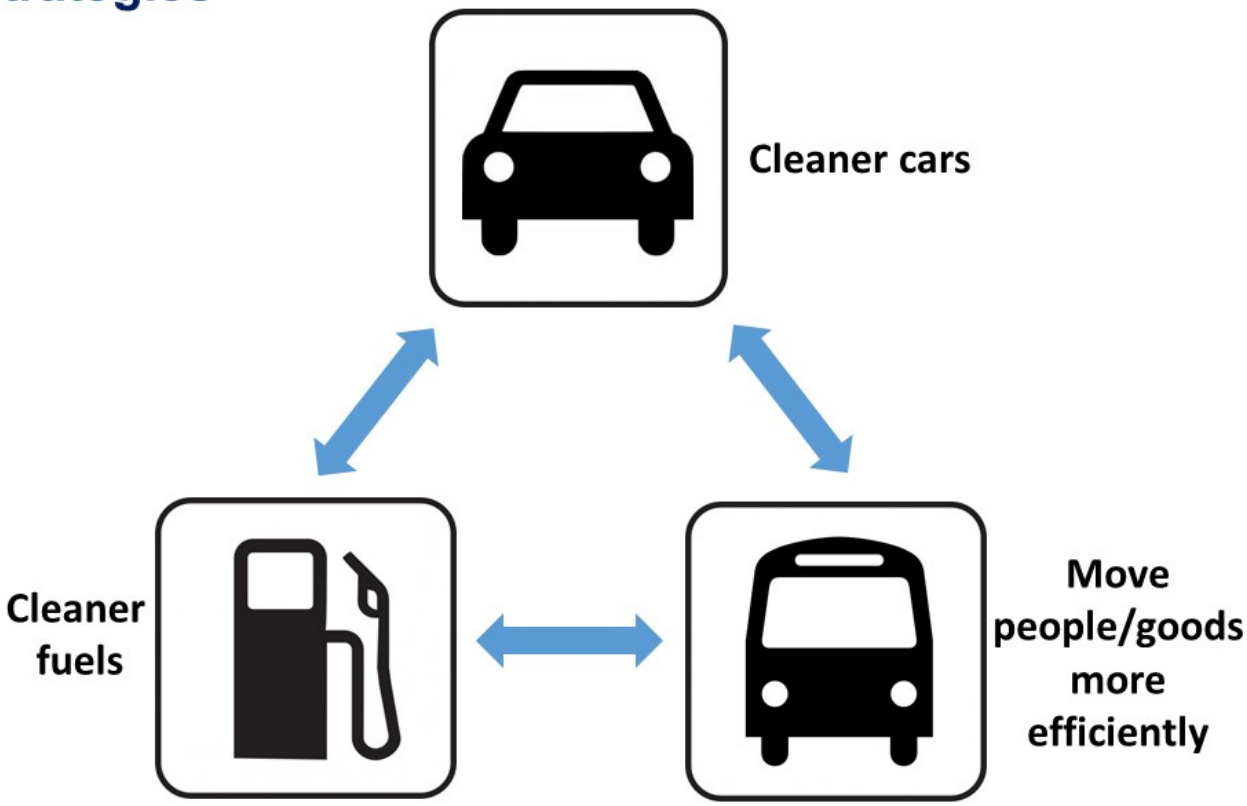


3.1.1: Reduce transportation-related greenhouse gas emissions from 44.9 mmt/yr to 37.5 mmt/yr by 2020.

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



Strategies



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

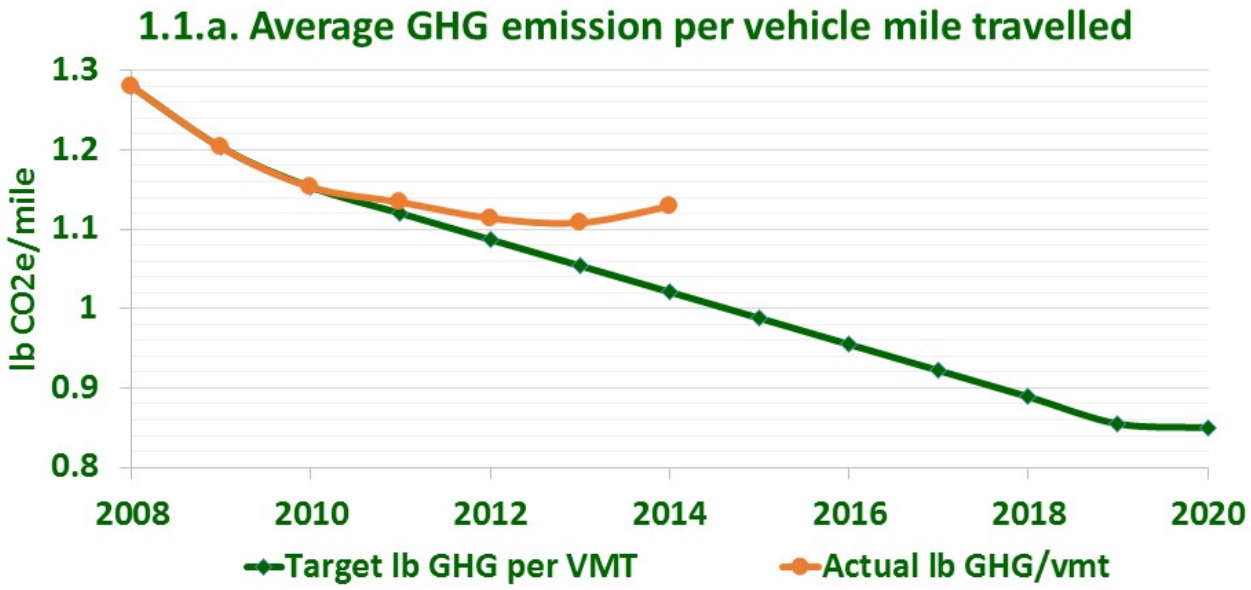
Action Plan

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

3.1.1.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.

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



3.1.1.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.

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.

3.1.1.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.

Strategies

			Goals Set by State Laws		
State Law		**Baseline**	**2020**	**2035**	**2050**
RCW 70.235.020	Greenhouse gases Emission Reduction Goals in MMt CO2/y	Actual 1990 level	1990 level	25% below 1990 level	50% below 1990 level
	Statewide GHG emission reduction goals in MMt CO2e/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

3.1.1.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.

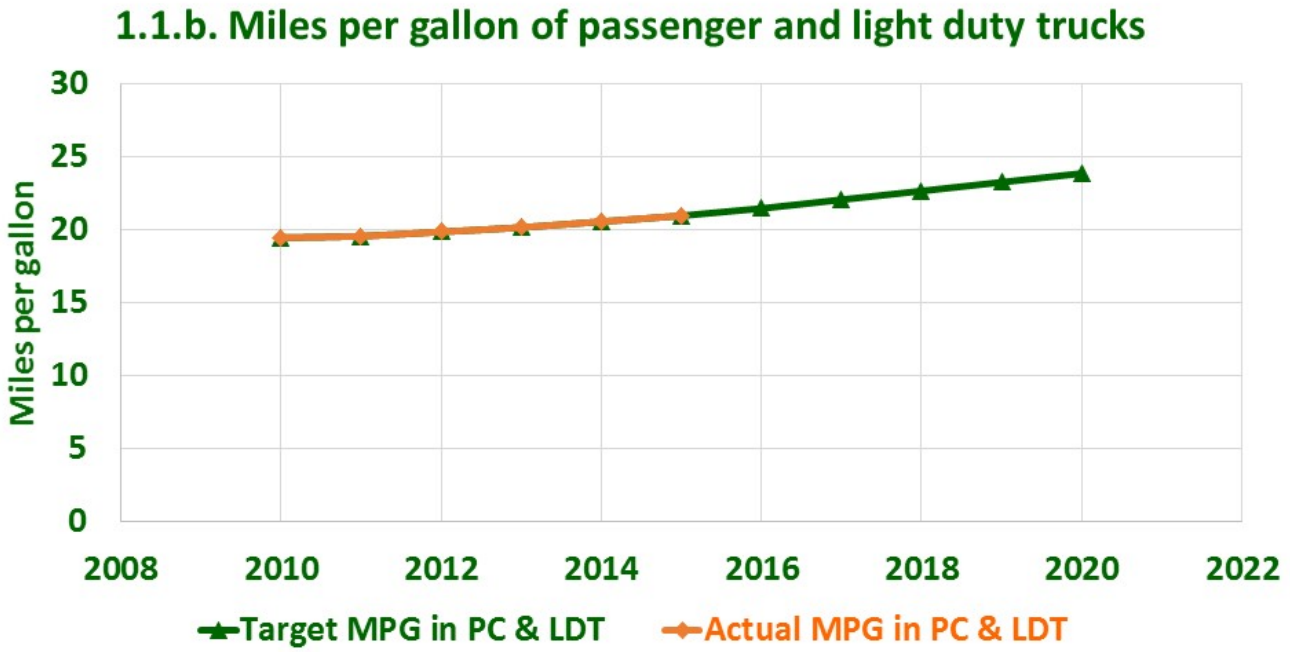
Action Plan

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.		

3.1.1.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.

Current State: On-Track



3.1.1.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.

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)

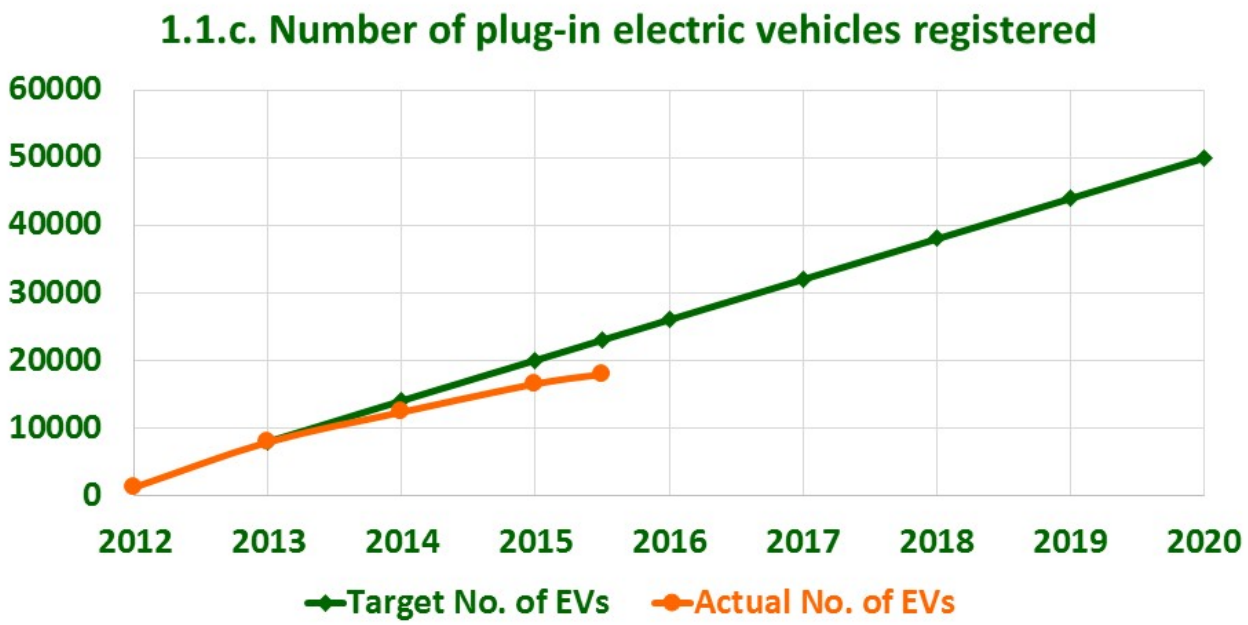
3.1.1.b: Increase the average miles per gallons of Washington's overall passenger and light duty truck fleet from 19.2 mpg in 2010 to 23 mpg in 2020.

Action Plan

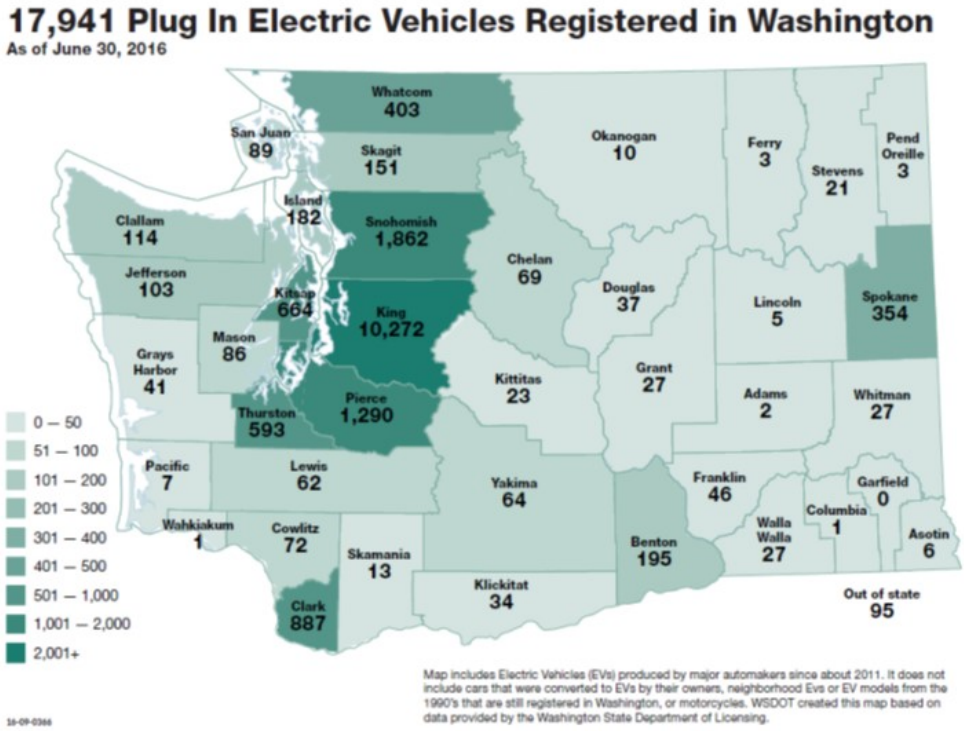
1.1.b: Increase the average miles per gallons of Washington's overall passenger and light duty truck fleet from 19.2 mpg in 2010 to 23 mpg in 2020.					
Tasks	**Lead**	**Partners**	**Expected Outcome**	**Status**	**Due Date**
To be determined					

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.



Background



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.

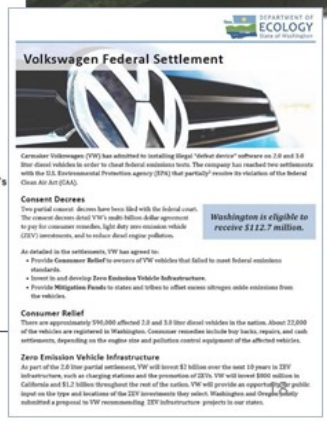
Challenges/Opportunities

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.

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.

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.	WDOT	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					
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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

RESULTS WASHINGTON

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

Department of Enterprise Services

George Carter III

Washington State Department of Enterprise Services

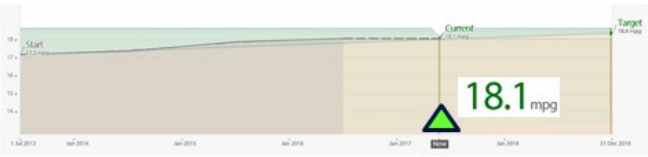
7/9/2017

WA State Electric Fleets Initiative

Washington State Department of Enterprise Services

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

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*