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2.3: Supplemental - Improve the efficiency of the state fleet by increasing the miles per gallon by 8% from 17 mpg in 2014 to 18.4 mpg in 2018



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

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**Department of  
Enterprise Services  
George Carter III**



6/5/2017

## Why is measuring the fuel efficiency important?

Improved air quality



Reduction in fleet operating costs

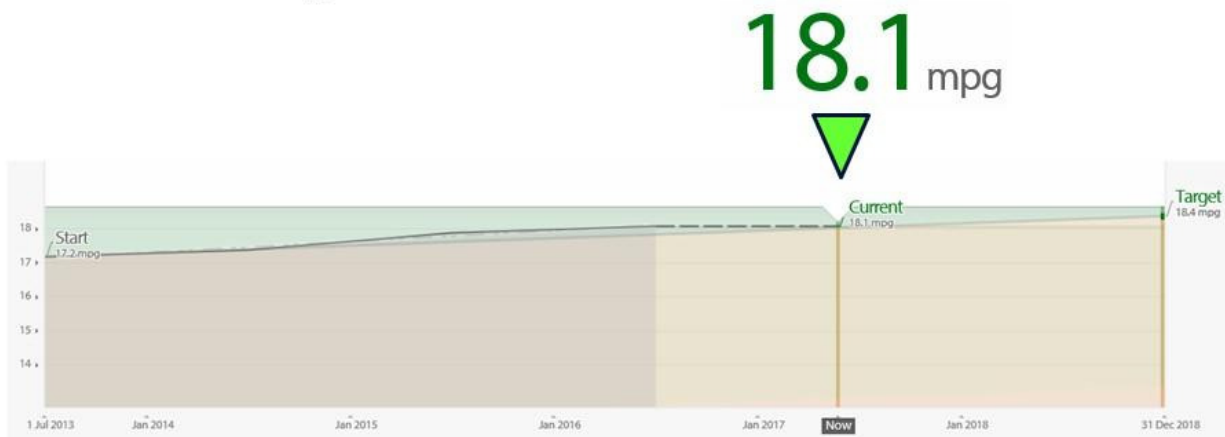


Reduces emissions



## Current Status: On Track to exceed the MPG target

- *2016 Calendar Year Results*
  - *Master Contract rebid to include a wide variety of fuel efficient vehicles*
  - *Available Hybrid SUV replacements*
  - *Manufacturers continue to focus on fuel efficient vehicle technology*



## Opportunity: Expanded alternative fueled vehicle classes



### **Opportunities:**

- Hybrid Mini-Vans
- Plug-In Hybrid trucks
- Advancements in battery technology and reduction in cost
- Fleet Consolidation

## Strategies: Active engagement & stakeholder work

- Developed standardized vehicle replacements
  - Start with the most fuel efficient vehicles
  - Shift to fuel efficient vehicles when available
- Annual Fleet Efficiency Reporting
  - Recaps FY metrics - cost per mile, miles traveled, fleet mix, and POV usage
  - Recommend strategies for future efficiency improvements (more EV's)
  - Clearing understanding of agency vehicle needs
- Revising the Enterprise Transportation Policy

## Current Status: On pace to meet our goal

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

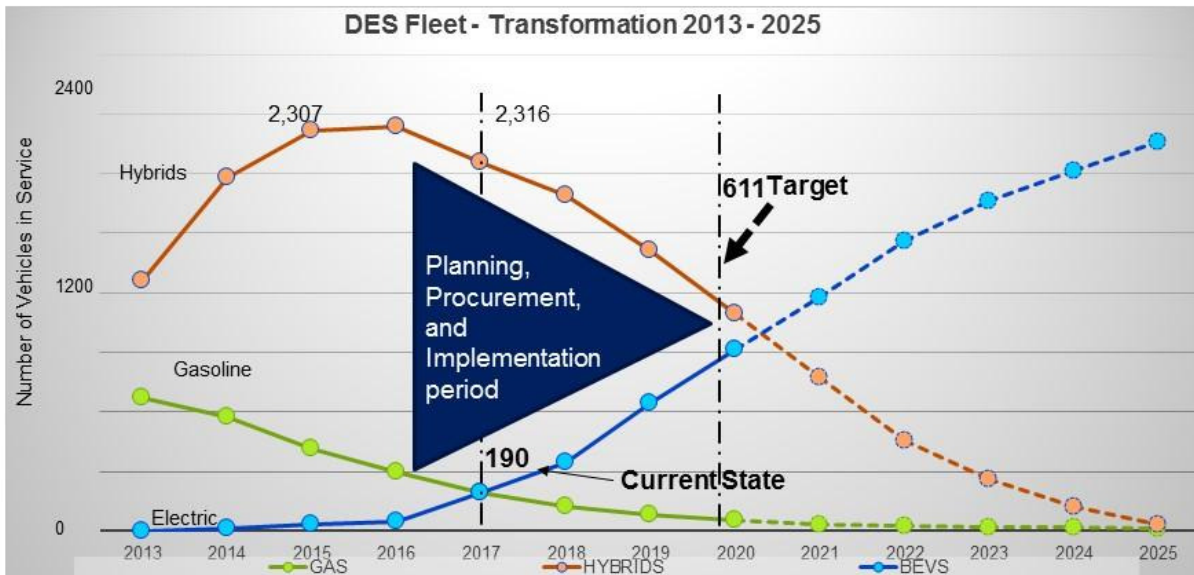
- Currently 2,650 vehicles in service
- “EV Readiness”

*The game has changed*



**Shift to...  
Long Range  
Electric  
Vehicles**

## Current Status: On Track



### Success Factors:

- Private sector support improving
- The notion of hybrids and EVs is not new anymore
- Procurement collaborative and decreasing costs
- DC Fast charging

### Problems:

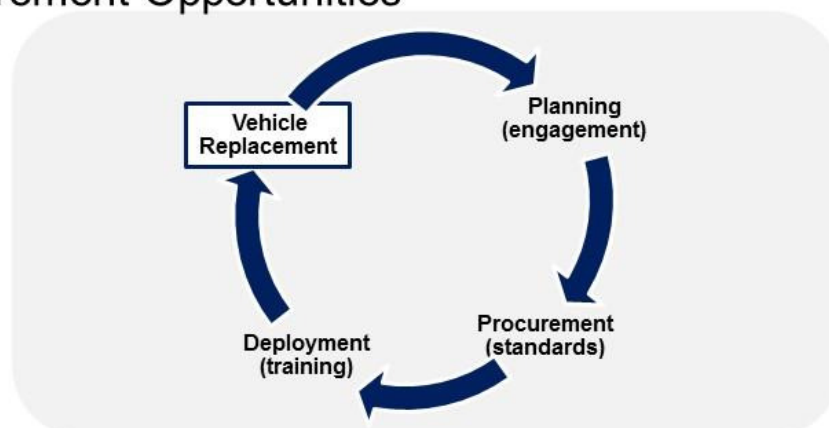
- Same problems, different group (Trucks & SUVs)
- Public Charging Infrastructure
  - [www.plugshare.com](http://www.plugshare.com)
- Agency leases are coming to term

## Opportunity: Hybrid and battery electric trucks and SUV's

Problem	Next Step
No Truck alternatives	Hybrid Trucks coming in 2018
No SUV alternatives	Hybrids now available on contract
Training and readiness	Adapt electric vehicle training template
Identifying EV/Hybrid users	Stakeholder group and format created for long-range EV's
Vehicle Master Contract	Allows for alternative fueled vehicles to be added when available

## Strategy: DES will be the leader in alternative fuel vehicles

- Takes continual focus: Quarterly meetings with agency contacts
- Partnership to understand how vehicles are used: Open discussion
- Standardize vehicle types: Policy work
- Procurement choices: Master contract & Joint Procurement Opportunities



## Current Status: On track

### Washington State Electric Fleet Initiative

*Progress:*

- 190 vehicles in service
- Ordered 101 Chevy Bolts in Oct. 2016
  - ✓ **Largest government order in the nation!!**
- Took delivery of the first Bolt in April
- Developed a plan to install Level 2 chargers at agency locations statewide
- Comprehensive site evaluation and installation process
- Installed 39 new charging stations
- EV charge cards



## Opportunity: Long range vehicles

Problem	Next Step
Lack of Charging Infrastructure	Charger Install Project
Multiple Charge Cards	Vendor integration
Interoperability	Pilot and Test Case



## Strategy: Proactive Engagement and Executive Support

### DES EV & EVSE Showcase



### Governor Inslee's first drive



With the help of the Governor and Chris Liu, DES delivers the first Bolt to Ecology

## Recognition: Western Washington Clean Cities

DES has been nominated for three awards

- Best Performance by a Public Fleet
- Best Achievement in Electricity
- Sustainable Commitment Award



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## Conclusion: How do we keep the momentum?

- Showcase the benefits of EV's
- Stay up to date on new technologies
- Continue to build State agency charging infrastructure
- Vehicles available in daily rental fleet
- Encourage agency leadership to serve as champions of EV adoption.

Thank you for your ongoing support...

**“Driving Change for Washington’s Future”**

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# Electric Fleets Initiative



*Hanna Waterstrat  
Department of Ecology*

Ecology's Electric Fleet:

- 10 new Chevy Bolts
- Fleet and employee charging available now in Lacey, Spokane, Union Gap, and Vancouver
- EVSE installations in-progress in Bellevue and Bellingham

Keys to Success:

- Collaboration between fleet & facilities staff (and between ECY and DES!)
- Support from executive leadership
- Change management

## Action Plan:

**Measure 2.3: Improve mpg 8% from 2014 levels by 2018**

Task	Task Lead	Expected Results	Status	Due Date	Partner
1) 20% of passenger vehicles purchased to be electric vehicles.	George Carter	Estimated 4% gain	On Track	12/1/2018	All state agencies with state vehicles
2) Replace other vehicles with the most fuel efficient vehicle available.	George Carter	Estimated 3% gain	On Track	12/1/2018	All state agencies with state vehicles
3) Downsize vehicles when replacing.	George Carter	Estimated 2% gain	On Track	12/1/2018	All state agencies with state vehicles

**Measures 2.3.a & 2.3.b: Increase the number of Electric and Hybrid Vehicles**

Task	Task Lead	Expected Results	Status	Due Date	Partner
1) 20% of passenger vehicles purchased to be electric vehicles.	George Carter	Estimated 900 vehicles	On Track	12/1/2018	All state agencies with state vehicles
2) Replace other vehicles with hybrid vehicles when available.	George Carter	Estimated 650 vehicles	On Track	12/1/2018	All state agencies with state vehicles
3) Replace larger vehicles with bio-diesel capable vehicles.	George Carter	Estimated 600 vehicles	On Track	12/1/2018	All state agencies with state vehicles

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