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2.3 and 2.3.a: Fleet Efficiency and Alternative Fueled Vehicles

2.3: Improve the efficiency of the state fleet by increasing the mile per gallon by 8% (from 17 mpg in 2014 to 18.4 mpg by 2018)

Why is measuring the fuel efficiency important?



- In 2014, State of Washington burned over 8 million gallons of fuel
 - *Approx. total cost of \$27,000,000*
 - *An 8% reduction equates to saving of \$2,000,000*

Current Status: Early data indicates increased MPG

- *DES 2015 Calendar Year MPG improvement*
- *New vehicle MPG is increasing across all vehicles types*
- *Received Calendar Year 2015 fuel data*
 - *Voyager/Comdata*
 - *bulk fuel purchases*
 - *WADOT*
 - *POV reimbursement data analysis and formatting prior to sending to agencies to bi-annual ECY reporting*

	Total Miles	Total Gallons	Overall MPG	Vehicles in Service During the Year
2015	47,282,214	1,957,065	24.16	4318
2014	42,234,374	1,765,516	23.92	3822
2013	35,972,117	1,506,862	23.87	3176
2012	33,025,557	1,338,910	24.67	2679
2011	26,614,187	1,065,204	24.99	2349
2010	23,821,188	938,731	25.38	1963

Current Status: Making strides towards meeting our goal

To 16 Fuel Use Agencies/Higher-Ed	Hybrid	PHEV	BEV
<i>Subtotals</i>	2274	21	100
16 Agency Total	2395		

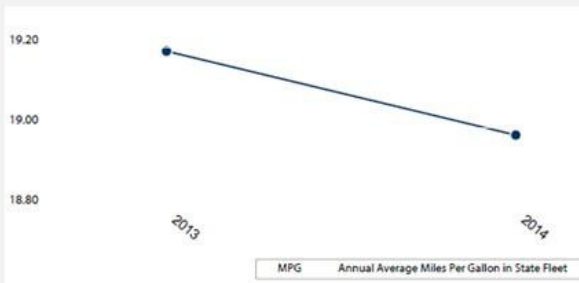
- *Currently 2,395 vehicles in services*
- *Shift towards battery electric vehicles*

- *The game is changing...*



Problem/Opportunity: Data collections and reliability

- 2013 vs 2014 Fuel data



- Diverse vehicle applications



Problems:

- Consistent reporting and timeliness
- Multiple reporting requirements
- Drilling down to understand vehicle usage variances and root causes

Opportunities:

- Statewide standard for mileage reporting (Telematics, DES annual vehicle and mileage database)
- Advancements in battery technology (200mi range EV)

2.3.a: Increase the number of alternative fueled and hybrid vehicles in the state fleet from 3,836 in 2015 to 6,000 by 2018

Problem/Opportunity: Long Range Electric Vehicles

- 2017 Chevrolet Bolt with a "B"



Problems:

- Inadequate charging infrastructure at state facility
- Driver anxiety and lack of knowledge
- Requires executive support to be successful

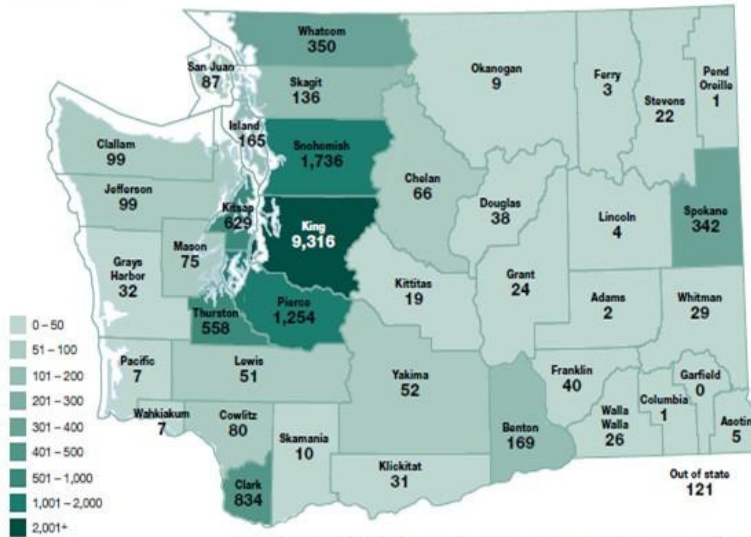
Opportunities:

- Washington State Electric Fleet Initiative
- WSCA-NASPO Procurement collaborative
- Electric Vehicle Service Equipment (EVSE) is standardizing
- Education and training

Opportunity: Electric vehicles are moving towards mainstream acceptance and the infrastructure is improving

16,529 Plug In Electric Vehicles Registered in Washington

As of December 31, 2015



Strategies: Engagement and Partnership with agencies

- Automated Key-box Systems

INVERS



- State Vehicle & Mileage Reporting
- Telematics Pilot Project



- Develop standard reporting templates
- Replace vehicles with the most fuel efficient model available using standardized vehicle replacements lists
- Expansion of INVERS automated key-box systems

State Vehicle & Mileage Report

Thank you for using this online mileage reporting portal. DES Fleet Operations reports statewide vehicle usage data to the Office of the Governor annually and this report streamlines the process and saves state employees countless hours. Please report your odometer readings annually in the first week of January. If you have any troubles with or questions about this report, email npmal@des.wa.gov.

Report Date: 4/28/2016 10:18:24 PM

Agency Information:
 Agency: (Select from list)

Contact Information:
 Primary Contact: Primary Email:
 Backup Contact: Backup Email:

Vehicle Information:

License plate	Year	Make	Model	Odometer reading	Odometer reading date	Row vehicle	Edit
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please verify the above entered information and then click the Submit button

Strategies: DES is taking the leadership role: at least 20% of all 2017 Model Year vehicles purchased will be electric vehicles

- Achieving our goal equates to approx. 200-300 new electric vehicles
- Agency engagement to provide electric vehicle trainings
- Hybrids will be the second option



Action Plan:

Task	Task Lead	Expected Results	Status	Due Date	Partner
See Below	George Carter Fleet Manager	8% improvement in mpg in 2018 from 2014 levels	On Track	12/1/2018	All state agencies with state vehicles
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
See Below	George Carter Fleet Manager	56% increase in the number of alternative fuel and hybrid vehicles in 2018 from 2015 levels (from 3,836 to 6,000 vehicles)	On Track	12/1/2018	All state agencies with state vehicles
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

Assistance Needed:

- Executive level support to champion our efforts
- Take this information back an share with fleet, facility, and finance departments

Three Goals

- Assist Governor's Goal to Create a Sustainable Environment
- Reduce POV Reimbursement
- Provide the Right Tool for the Job

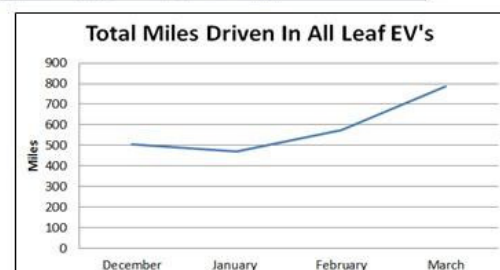
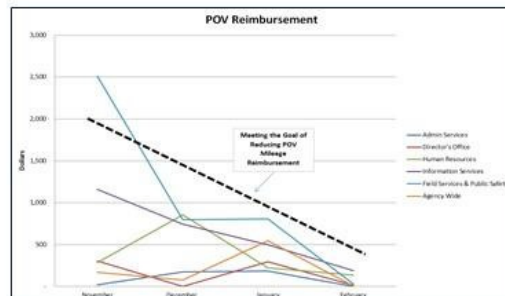
Challenges

- Culture Shift
 - What exactly can I do with an electric vehicle?
 - What do you mean I don't own the car?
 - I want to drop off the car and binder at midnight on Sunday....

Consolidated Motor Pool Project

Robin Dildine-Gwin
Dept. Labor and Industries

Benefits



Thank you

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