## DGS Fleet Overview FY 17-18

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Vehicle Count</td>
<td>17,297</td>
</tr>
<tr>
<td>Equipment (non-pass)</td>
<td>5,009</td>
</tr>
<tr>
<td>Passenger</td>
<td>12,288</td>
</tr>
<tr>
<td>Law Enforcement</td>
<td>5,074</td>
</tr>
<tr>
<td>PDOT Passenger</td>
<td>1,509</td>
</tr>
<tr>
<td>Net Passenger*</td>
<td>5,705</td>
</tr>
</tbody>
</table>

**Fuel consumption**

- **Gasoline** ****: 7.88 mil gals
- **Diesel** *******: .28 mil gals
- **Net Fuel Consumption**: 8.25 mil gals

**Miles Driven**: ???,???,???

*Fuel consumption for this class only.

**Fuel type reporting (E15, E85, B5, etc.) is station dependent.

***Does not include PDOT/ Turnpike heavy equipment AND PSP fueling (est. 22.5 mil gals additional).
Executive Order Fleet Impacts

   a. All agencies under the Governor’s jurisdiction shall:
      (1) Collectively reduce overall energy consumption by 3 percent per year, and 21 percent by 2025 from 2017 levels.
      (2) Replace 25 percent of the state passenger car fleet with battery electric and plug-in electric hybrid cars by 2025 and evaluate opportunities for the reduction of vehicle miles traveled and incorporation of new technology where appropriate.

   b. The Department of General Services shall:
      (9) Research, recommend, and develop vehicle fleet sustainability practices and metrics consistent with leading fleet accreditation programs.
**Hybrid/PHEV/EV Plans**

DGS owns 1,912 passenger vehicles
25% commitment ~ 500 passenger vehicles.

DGS will convert 100 vehicles per year for the next five years to hybrid, EV, or PHEV dependent on intended usage.

DGS currently has 65 alt energy vehicles deployed. Another 35 are on order to complete the year one commitment for compliance with the EO. 100 vehicles will be transitioned each year until 2023.

There are 17 fleet (non public) charging stations in the Capitol complex. Generation 2 chargers will be card swipe enabled to permit cost allocation across agencies.

The first multi-agency pooled EV’s will be on line this summer.
DGS Fleet Hybrid/EV/PHEV/CNG
Telematics

Field of study

Telematics is an interdisciplinary field that encompasses telecommunications, vehicular technologies, for instance, road transportation, road safety, electrical engineering, and computer science. [Wikipedia]

• The technology of sending, receiving and storing information using telecommunication devices to control remote objects
• The integrated use of informatics and telecommunications for application in vehicles and to control vehicles on the move
• GPS technology integrated with computers and cellular technology in automotive navigation systems
Telematics – Fleet MPG

Fuel Efficiency by Vehicle Type
April 1, 2018 – June 30, 2018

- Van: 18
- Sedans - Compact/Midsize: 29
- Sedans - Fullsize: 22
- SUVs: 22
- Trucks: 14

Total Fuel Efficiency (mpg)

Fuel Efficiency by Vehicle Type
July 1, 2018 – September 30, 2018

- Van: 18
- Sedans - Compact/Midsize: 29
- Sedans - Fullsize: 22
- SUVs: 21
- Trucks: 14

Total Fuel Efficiency (mpg)

Fuel Efficiency by Vehicle Type
October 1 – December 31, 2018

- Van: 20
- Sedans - Compact/Midsize: 32
- Sedans - Fullsize: 24
- SUVs: 23
- Trucks: 16

Total Fuel Efficiency (mpg)

Fuel Efficiency by Vehicle Type
January 1 - March 9, 2019

- Van: 17
- Sedans - Compact/Midsize: 29
- Sedans - Fullsize: 22
- SUVs: 21
- Trucks: 14

Total Fuel Efficiency (mpg)
Telematics – Carbon Footprint

Carbon Footprint – Vehicle Average April 1, 2018 – June 30, 2018

- Van: 1.03
- Sedans - Compact/Midsize: 0.88
- Sedans - Fullsize: 1.20
- SUVs: 1.35
- Trucks: 1.23

Carbon Footprint – Vehicle Average July 1, 2018 – September 30, 2018

- Van: 1.22
- Sedans - Compact/Midsize: 0.67
- Sedans - Fullsize: 1.28
- SUVs: 1.21
- Trucks: 1.00

Carbon Footprint – Vehicle Average October 1, December 31, 2018

- Van: 1.26
- Sedans - Compact/Midsize: 0.91
- Sedans - Fullsize: 1.30
- SUVs: 1.32
- Trucks: 1.14

Carbon Footprint – Vehicle Average January 1, 2019 – March 9, 2019

- Van: 1.02
- Sedans - Compact/Midsize: 0.67
- Sedans - Fullsize: 1.05
- SUVs: 1.02
- Trucks: 0.92
Telematics – Idle Time/Cost

Idle Time (Hours)
January 1, 2019 – March 9, 2019

- 21-HUMAN SERVICES
- 25-PROBATION & PAROLE BOARD
- 35-ENVIRONMENTAL PROTECTION
- 11-CORRECTIONS
- 38-CONSERVATION & NATURAL RES
- REST OF CWOPA

Idle Cost
January 1, 2019 – March 9, 2019

- 21-HUMAN SERVICES
- 25-PROBATION & PAROLE BOARD
- 35-ENVIRONMENTAL PROTECTION
- 11-CORRECTIONS
- 38-CONSERVATION & NATURAL RES
- REST OF CWOPA

Idle – Carbon Footprint
(Metric Tonnes)
January 1, 2019 – March 9, 2019

- 21-HUMAN SERVICES
- 25-PROBATION & PAROLE BOARD
- 35-ENVIRONMENTAL PROTECTION
- 11-CORRECTIONS
- 38-CONSERVATION & NATURAL RES
- REST OF CWOPA

carbon footprint graph

Pennsylvania Department of General Services
Fleet Sustainability Program

NAFA Sustainable Fleet Accreditation Program
In collaboration with CALSTART
The Road To Reducing Your Footprint

Sustainable Fleet Accreditation
Claude Masters, NAFA; Bill Van Amburg, CALSTART

October 20, 2016
Fleet Sustainability Program

Current Accredited Fleets

- Chesterfield County Government, Fleet Services
- City of Anaheim, California
- City of Austin, Texas
- City of Boston, Central Fleet Management
- City of Chesapeake, Central Fleet Management
- City of Minneapolis, Fleet Services Division
- City of Sacramento, Fleet Management Division
- County of Sonoma, Fleet Operations
- County of Ventura
- Dakota County
- Eugene Water and Electric Board
- Fleet and Surplus Services-MN
- Florida Power & Light
- Kent Fire Department RFA
- Minnesota Department of Natural Resources
- Minnesota Department of Transportation
- Ontario Ministry of Transportation, Fleet Management Centre
- Port Authority of New York and New Jersey
- Time Warner Cable
- Town of Greenwich, Connecticut
- University of California, Davis
- University of Illinois, Facilities & Services
- University of Minnesota
- Yale University
Other Future Fleet Possibilities

• Volkswagen settlement (older heavy diesel replacements + charger infrastructure)
• EV pools
• Ridesharing across agencies
• Parcel/mail ride along
• Last mile delivery
• Sustainability points for solicitation proposal evaluation/scoring
• Bicycle/motorcycle alternatives