



Continual Improvement: Sustainability Update

Jessica Brandt
Environmental and
Sustainability Coordinator

Environmental & Sustainability Management System





ISO 14001:2015

Meeting International Standards

- Creates a common understanding – We're in control of our environmental impacts
- Increase efficiency
- Reduce risk
- Go beyond compliance
- Continual improvement
- Community Leadership

Life Cycle Perspective: Environmental Impacts

Supply
Chain/Acquisition

Vehicles
Fuel
Batteries
Products
Computers
Uniforms
Office
Supplies
Services

Operations/
Service

Fixed Route
Dial-A-Lift
Vanpool
Village Vans
Administration

Maintenance

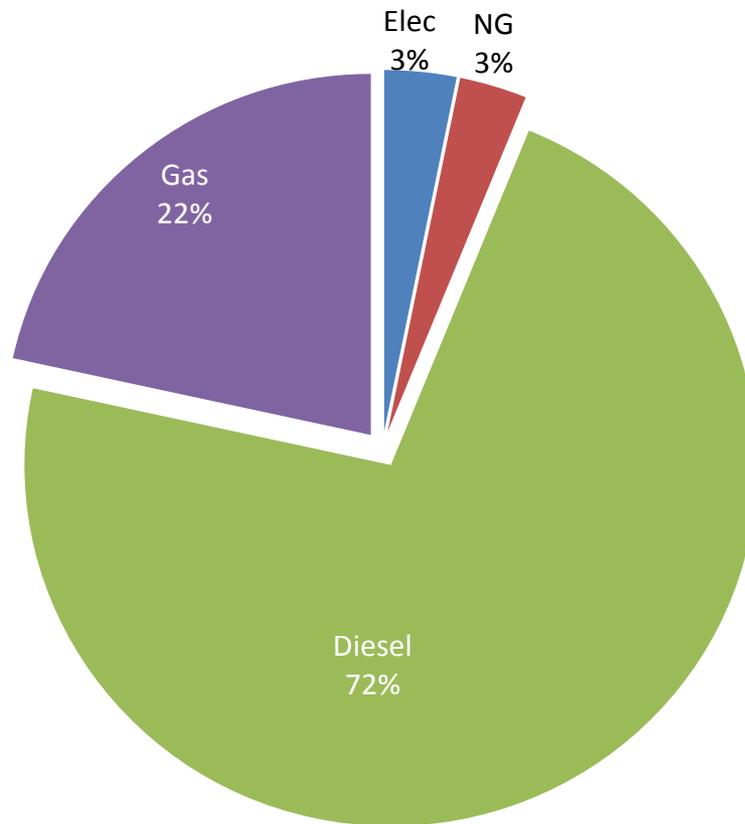
Vehicles
Facilities

End of
Life/Disposal

Vehicles
Fuel
Batteries
Products
Computers
Uniforms
Office
Supplies

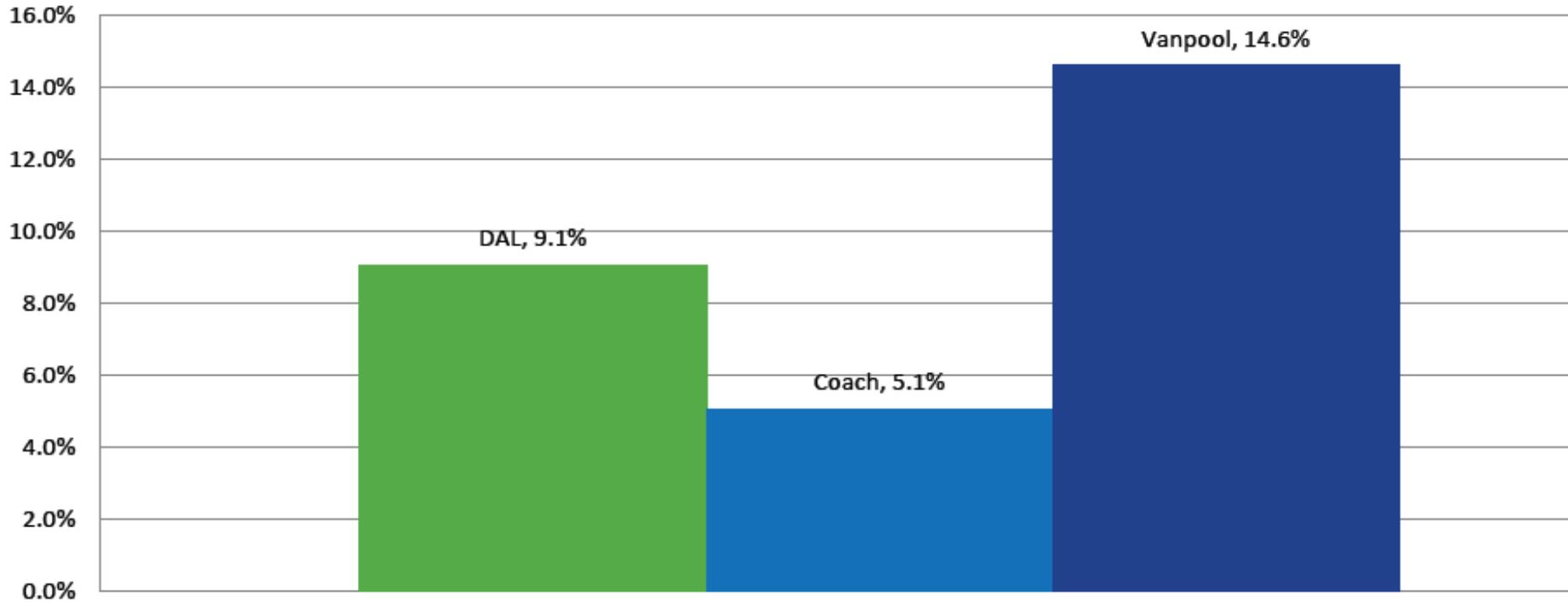
Focusing on GHG Emissions

Our GHG Emissions by Source

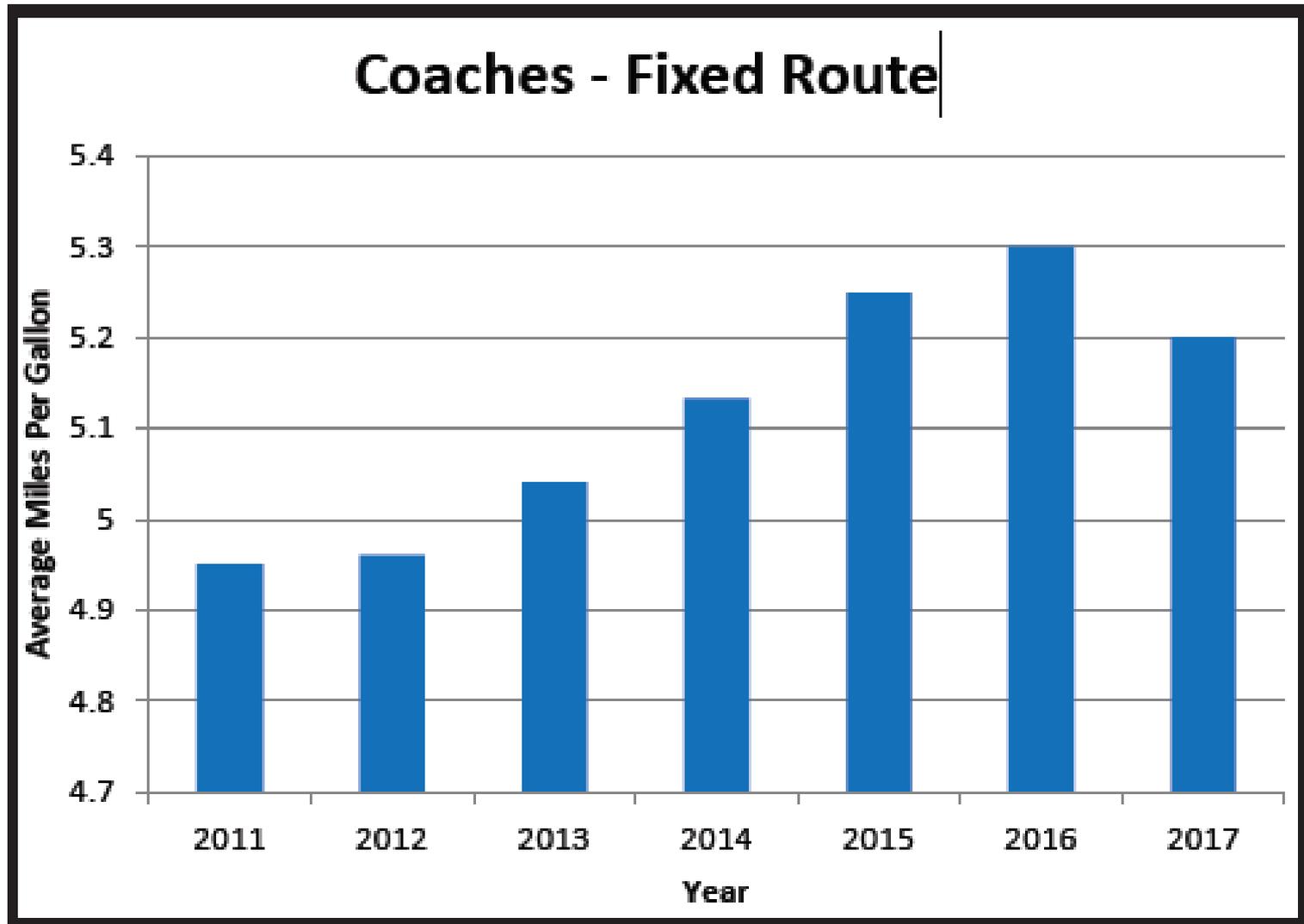


Fleet Efficiency

**% Improvement in Fuel Efficiency
2011-2017**

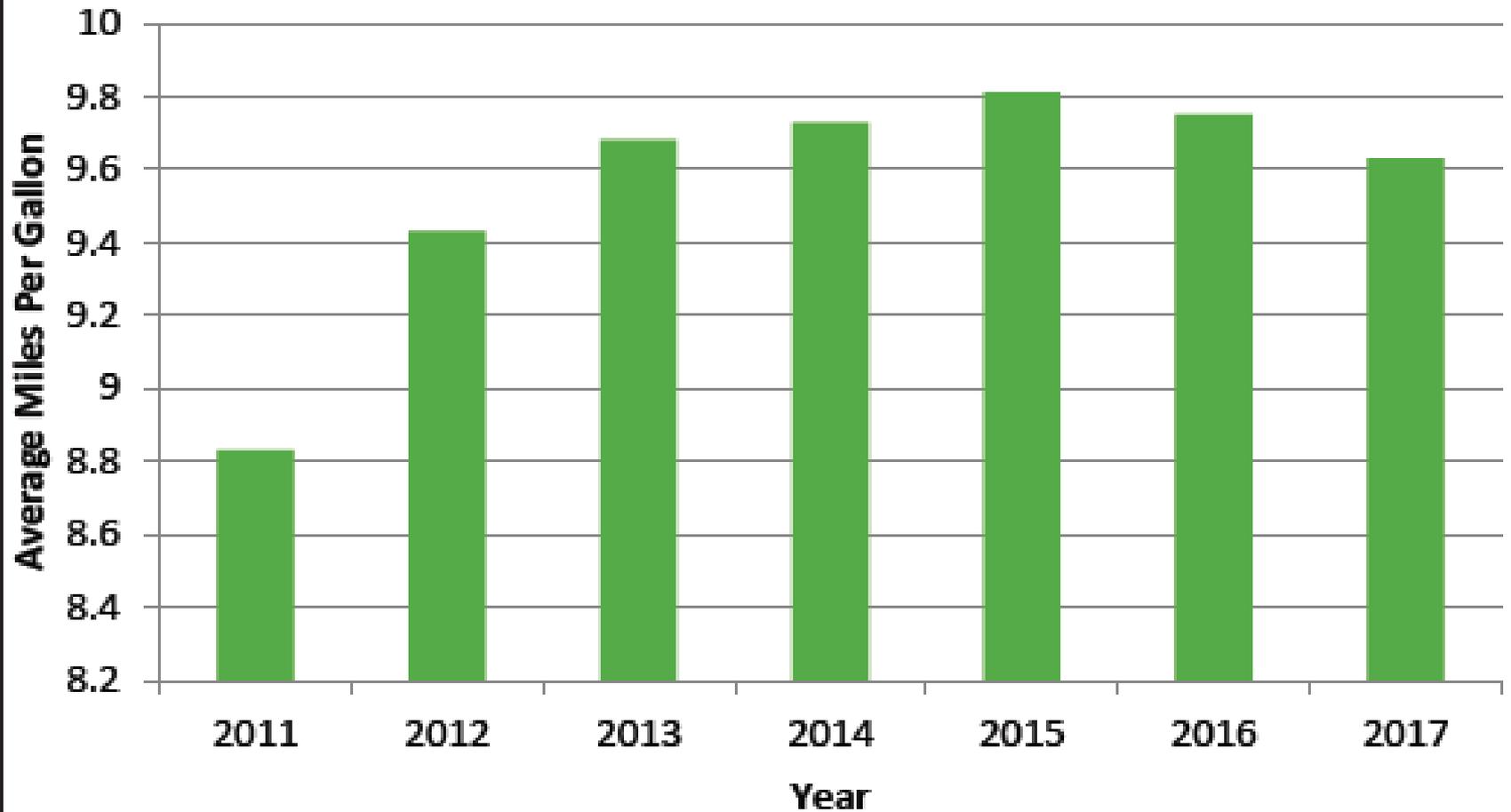


Fleet Efficiency

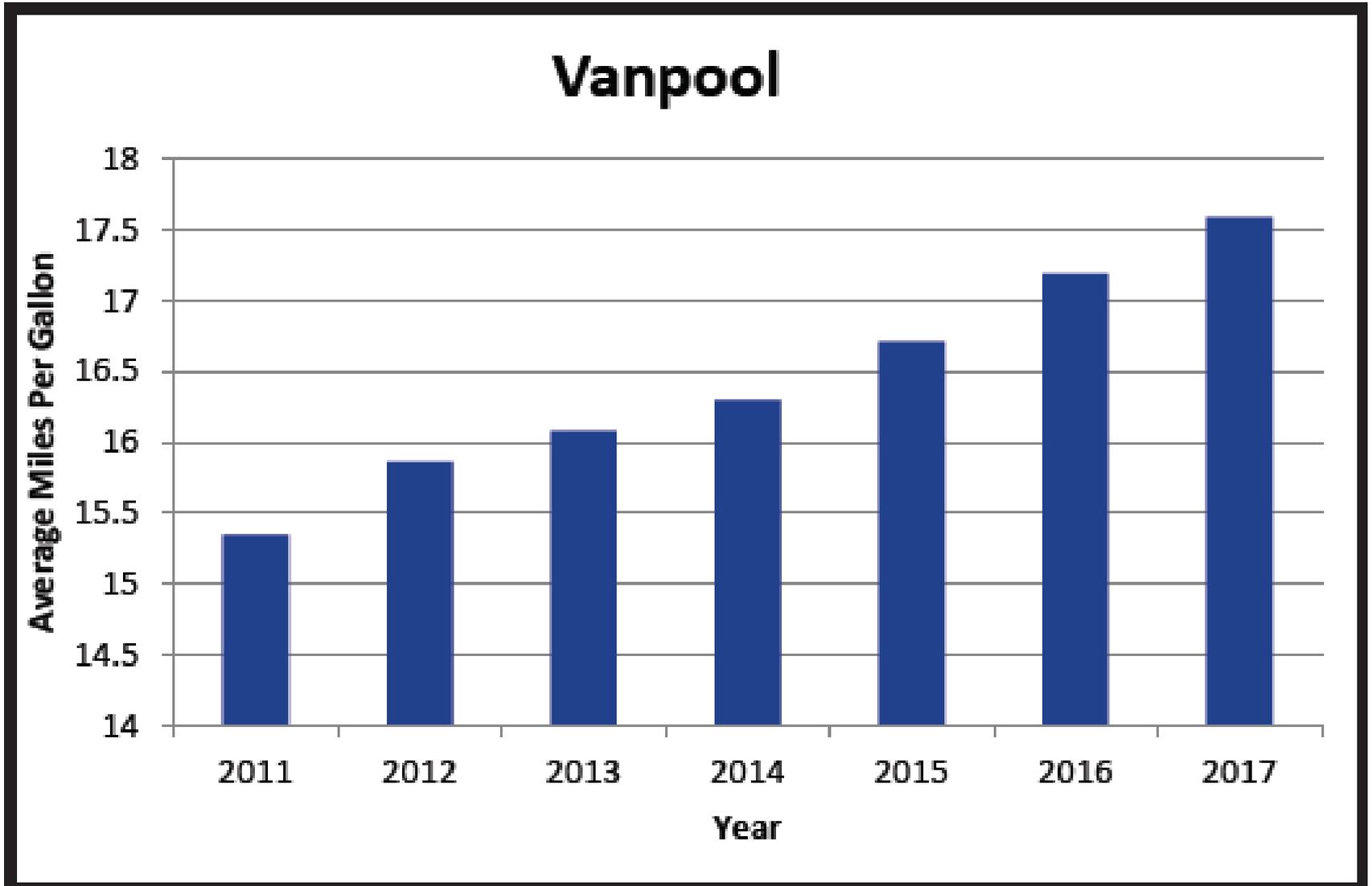


Fleet Efficiency

Dial A Lift



Fleet Efficiency





Evaluating R99 – Renewable Diesel

Biodiesel uses oxygen causing cold weather issues, separation during storage, algae growth, & higher emissions

Renewable “R99” diesel can run in diesel engines with no blending, and with even greater emissions reductions than biodiesel

<http://www.government-fleet.com/article/story/2016/03/what-you-need-to-know-about-renewable-diesel.aspx>

<http://www.government-fleet.com/channel/green-fleet/news/story/2016/10/renewable-diesel-coming-to-washington.aspx>

12 Propane Vehicles



Benefits of Propane:

- Lower carbon content than diesel
- Produced domestically
- Seventy-percent less tailpipe emission when compared to a similar diesel-powered fleet.
- Quieter operation

Spill Prevention, Preparedness, & Response

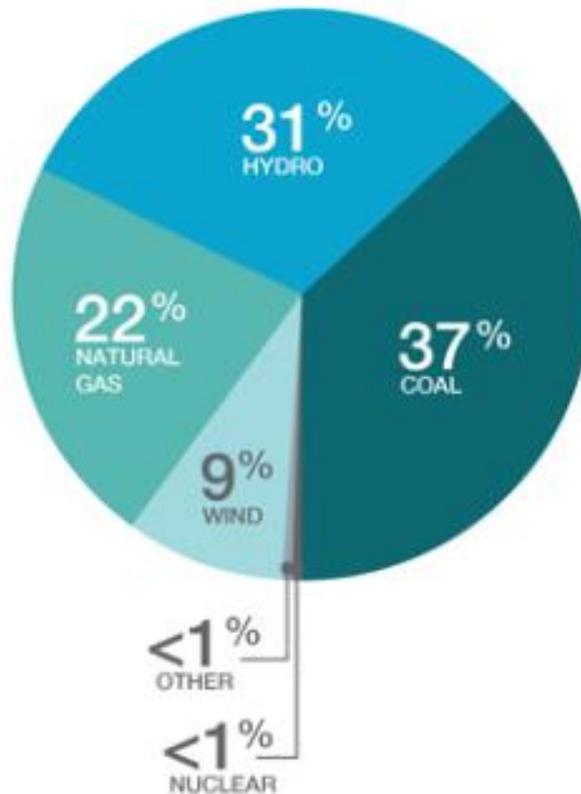


- Response Materials on Vehicles
- Training for Operators
- Tracking/Reporting – Safety Committee

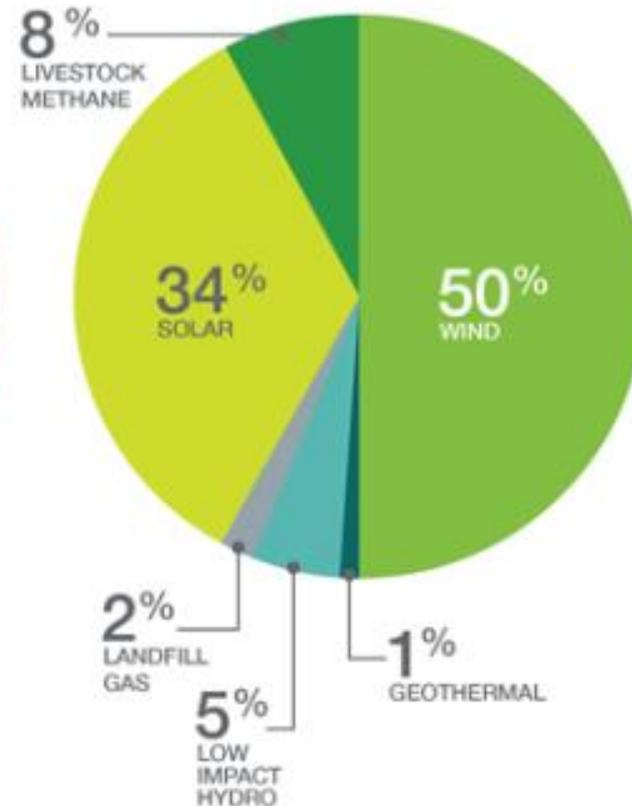


PSE Green Power Program

PSE Electricity fuel mix
Product Content*



PSE Green Power fuel mix
Product Content**



*Estimated 2016 electricity fuel mix, pending final 2016 report from the Washington Department of Commerce.

**Figures reflect the renewables PSE has contracted to provide.

Actual figures may vary according to resource availability.

APTA Sustainability Commitment

Report Annually on:

- GHG Emissions
 - Fuel
 - Electricity and Gas Use
- Water Use
- Waste Output and Diversion
- Criteria Air Pollutants



Connections

