



## Continual Improvement: Sustainability Update

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# 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

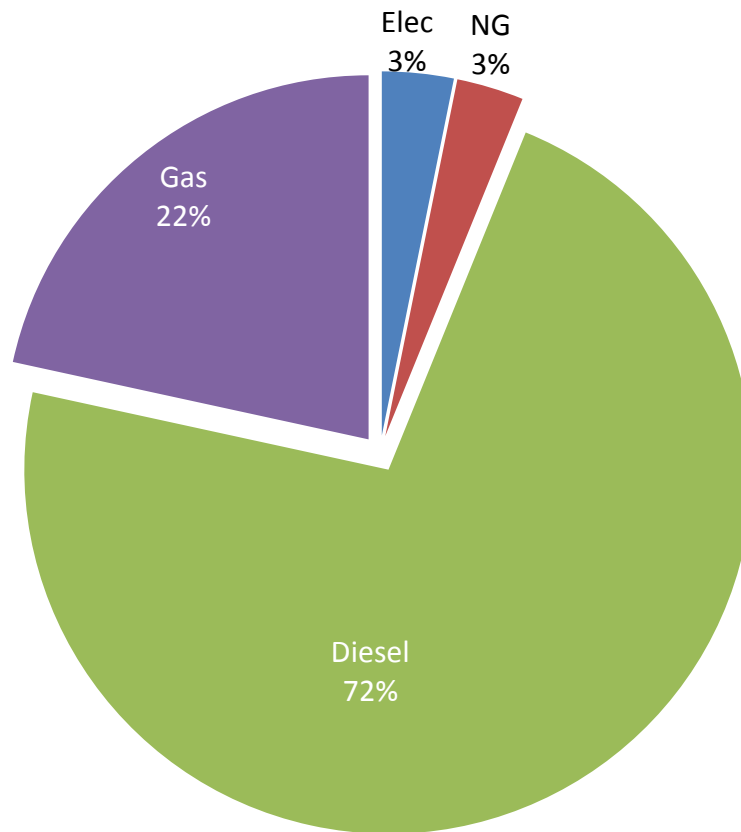
Vehicles  
Facilities

## End of Life/Disposal

Vehicles  
Fuel  
Batteries  
Products  
Computers  
Uniforms  
Office  
Supplies

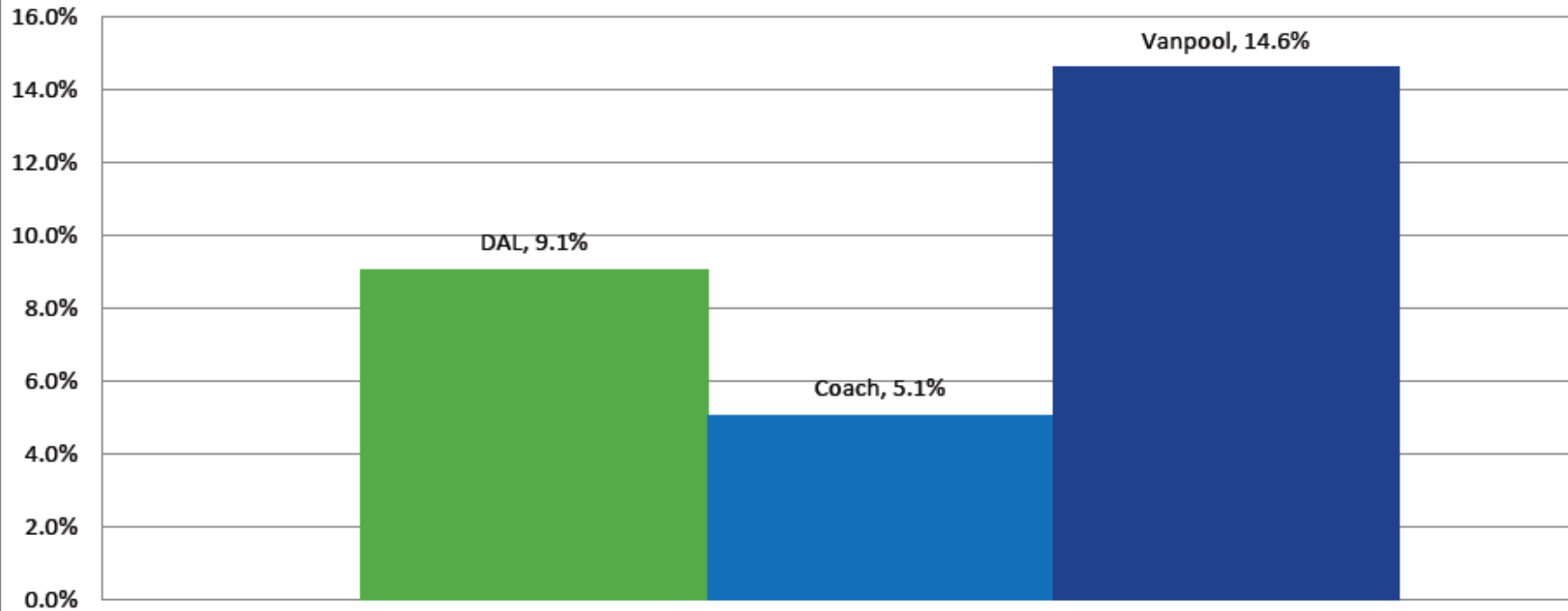
# Focusing on GHG Emissions

## Our GHG Emissions by Source

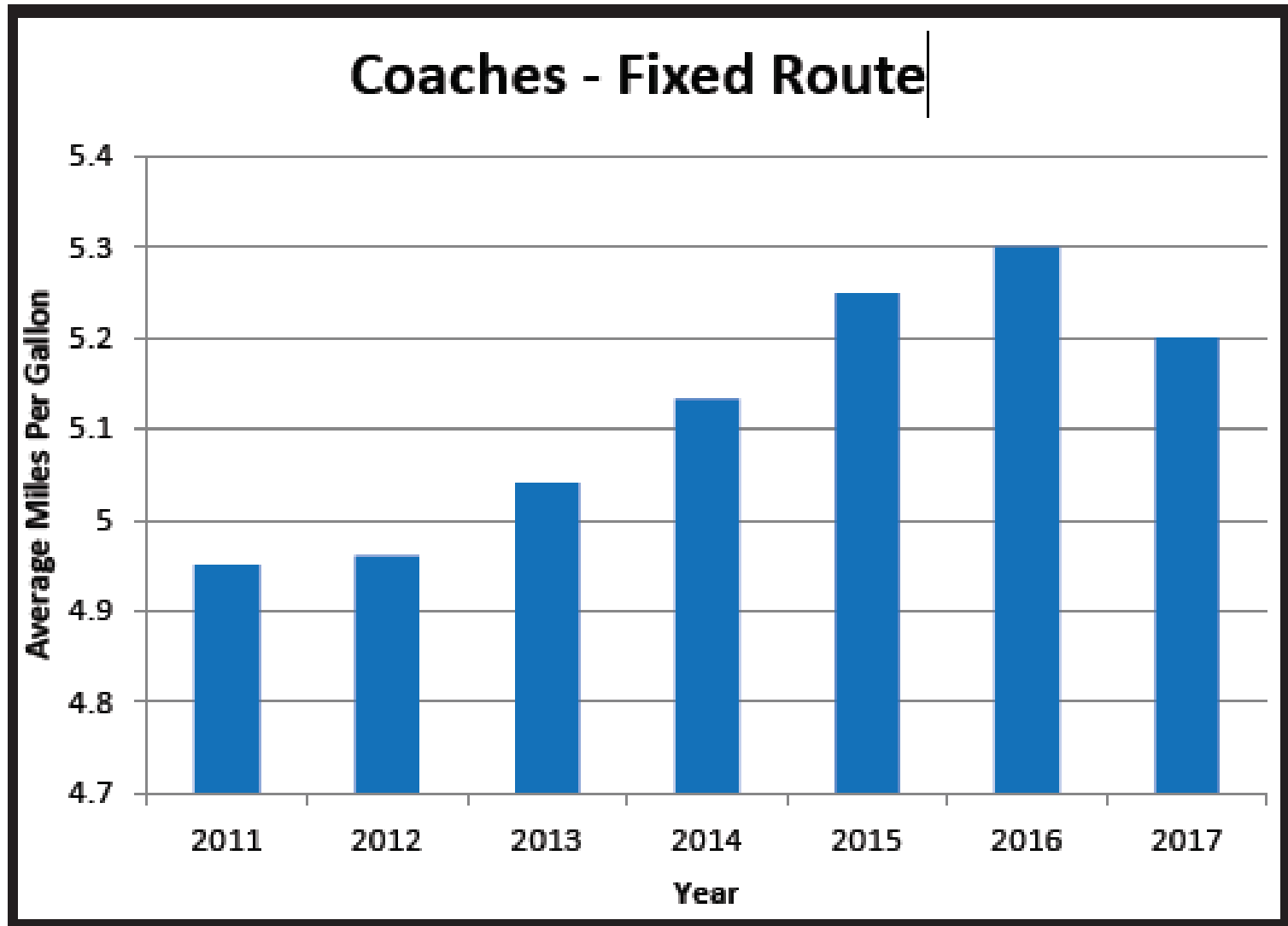


# Fleet Efficiency

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

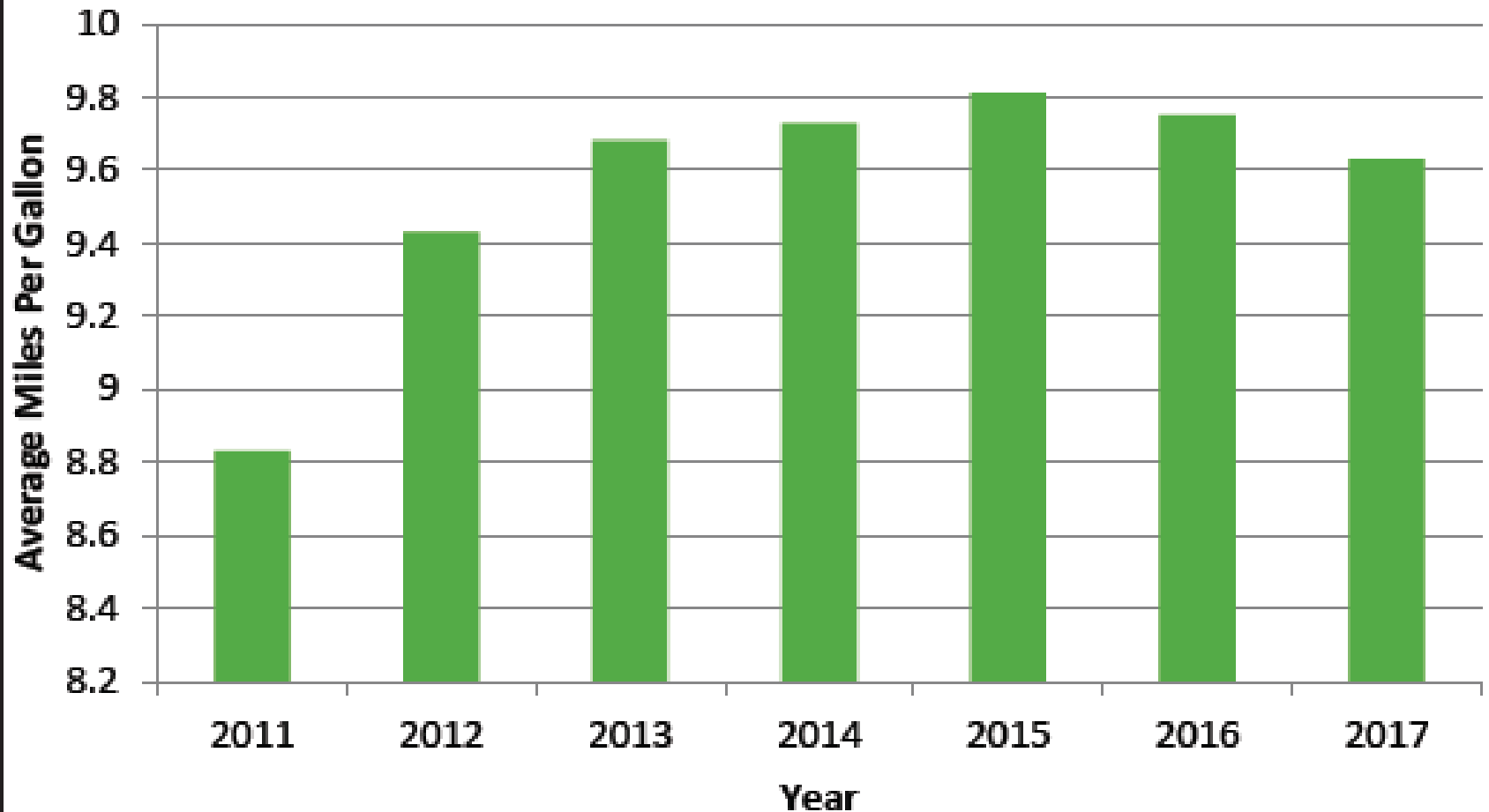


# Fleet Efficiency



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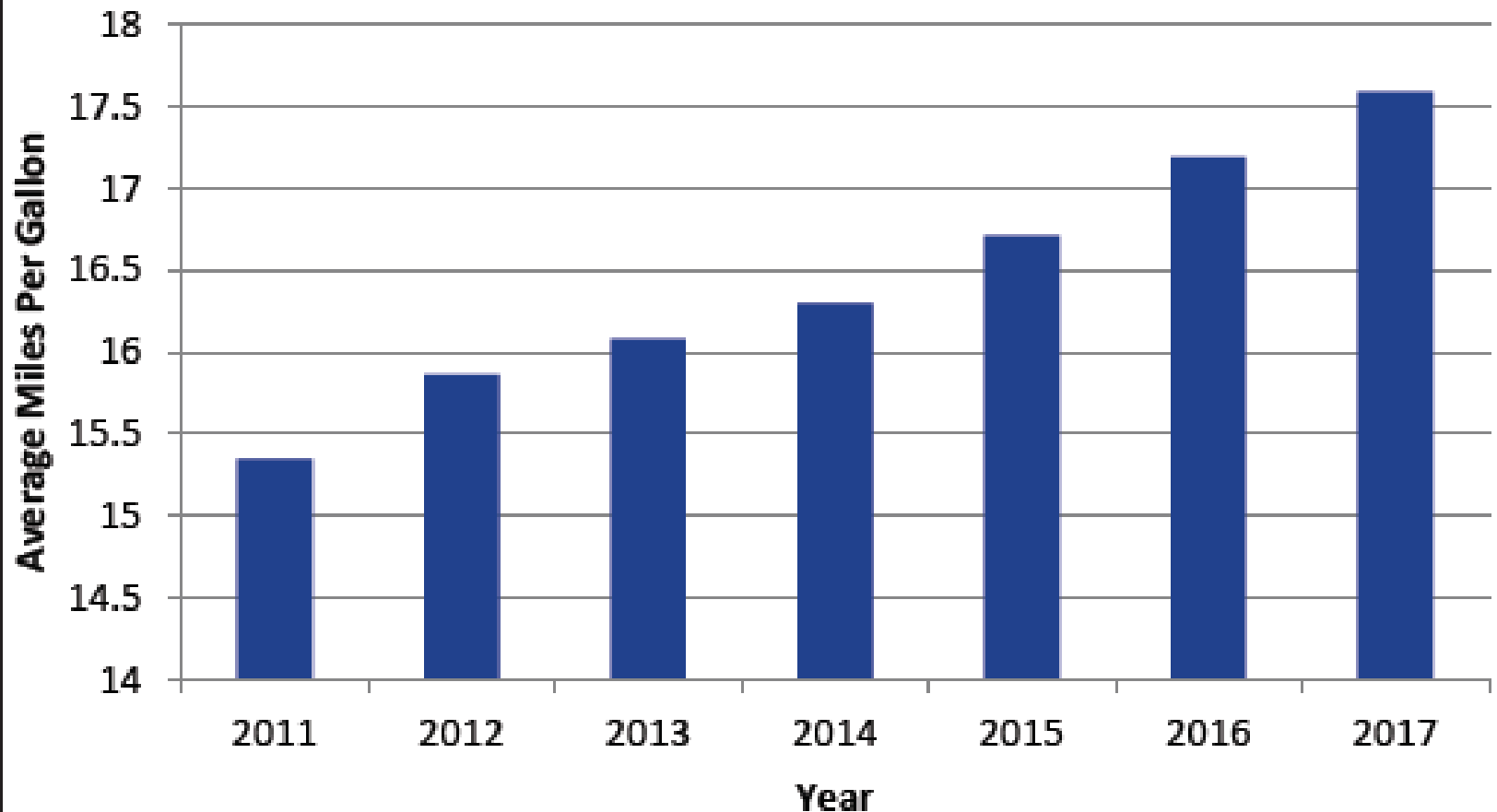
## Dial A Lift





# Fleet Efficiency

## Vanpool





# 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

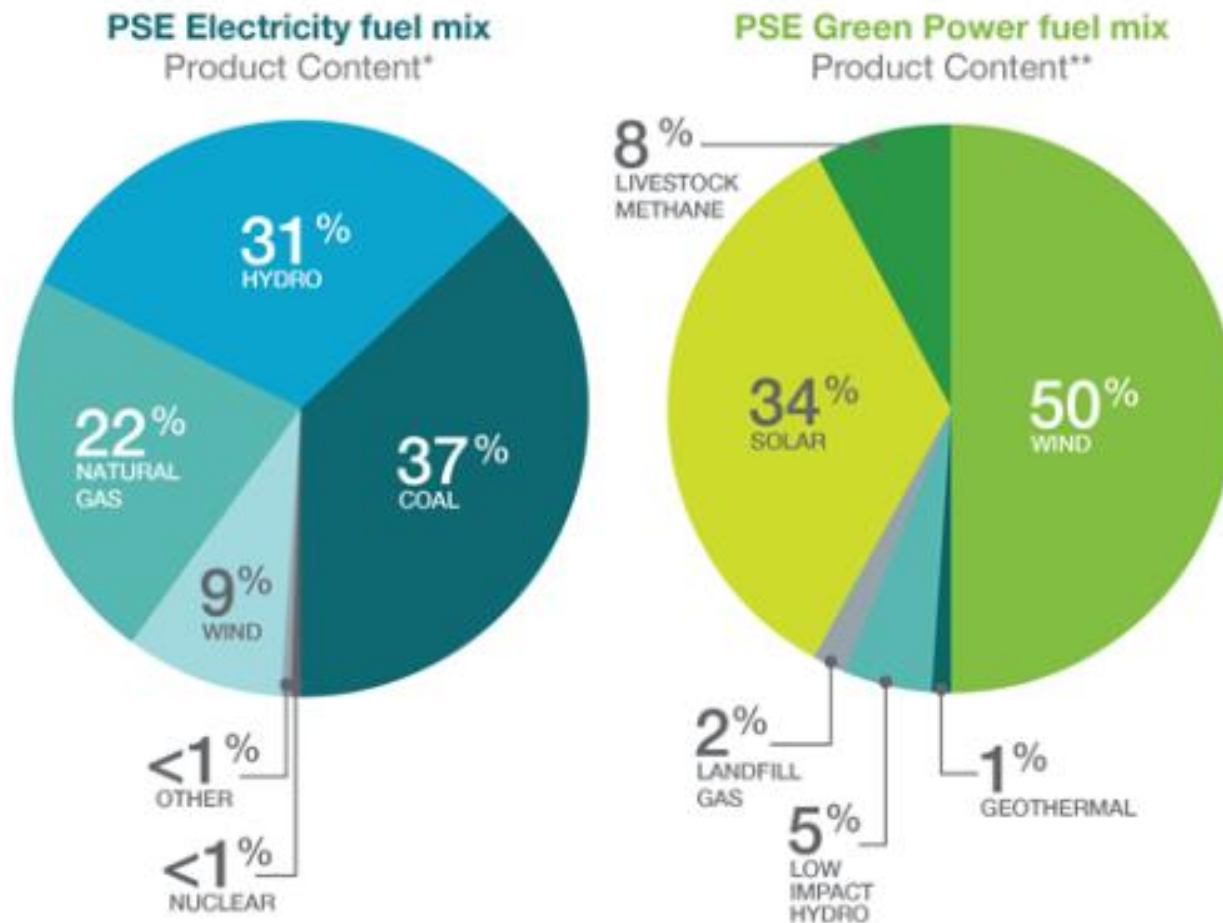
# Spill Prevention, Preparedness, & Response



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



# PSE Green Power Program



\*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

