US TRANSPORT V. POWER SECTOR
ENERGY / CARBON INTENSITY [USEIA 2017]

Energy consumption
quadrillion British thermal units (Btu)

- Electric power
- Transportation

rolling 12-month total

Carbon intensity
metric tons carbon dioxide per trillion Btu

- Transportation
- Electric power

rolling 12-month total
PROJECTED GHG EMISSIONS FROM OREGON’S ELECTRICITY SECTOR 2021-20

- PGE+PacifiCorp "Share" of State Goal
- 2016 Combined IRP Forecasts
- 2018 Combined Forecasts
2014-16 NEW VEHICLE SALES: EV’S VS. SUV’S

SUV’s up 14%/year (2014-16)
To 65% of New Sales

EV’s up 30%/year (2015-16)
To 0.82% of New Sales
PERCENT CHANGE IN OREGON LIGHT DUTY VEHICLE GHG EMISSIONS FROM 1990

Current Trends, Policies, Investments

STS Vision

GAP
Global Temperatures Relative to 1970-2000 Average
”If it was really that serious, someone would be doing something about it.”

“Wouldn’t they?”

Focus group response to the question how seriously we should be taking climate change?
OREGON GREENHOUSE GAS EMISSIONS FROM TRANSPORTATION FUEL & STATEWIDE VMT 1990-2016

VMT (Billion Miles)  GHG Emissions (Million MTCO2e)
PROGRESS: RESTRAINING FORCES
For Reducing GHG Emissions

Lower gas prices
- 2012: $6
- Now: $4
- Plans and Trends
- STS Vision

Older cars
- 2012: 15 yrs
- Now: 5 yrs
OREGON’S PASSENGER FLEET SHARES BY VEHICLE TYPE

- **Cars**
  - 32% in 2009
  - 48% in 2018

- **SUVs**
  - 20% in 2009
  - 25% in 2018

- **Trucks & Vans**
  - 30% in 2009
  - 45% in 2018