

Carbon Reduction within Oregon Transportation

Before the Senate Interim Committee on Environment and Natural Resources

Waylon Buchan – January 13, 2020



Collectively we represent a broad cross-section of key transportation stakeholders including those who own, maintain, build, use, and pay for Oregon's transportation infrastructure. Key Issues:

Impacts to Highway Trust Fund

Cost Containment and Impact to Motorists and Trucking

Future Transportation Investments and the Economy

Price Impacts on Labor and Procurement

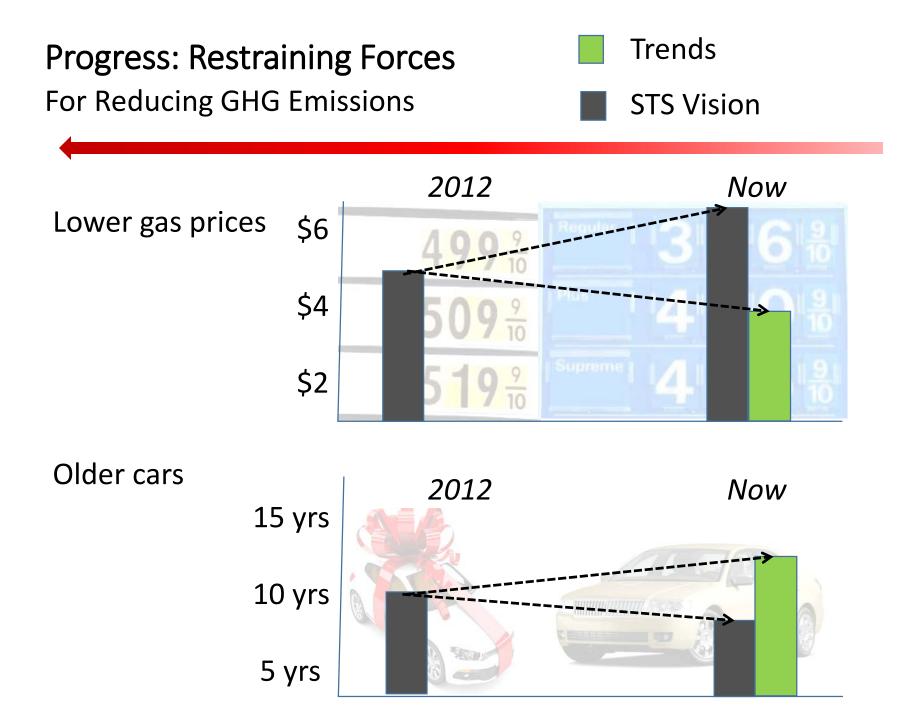
Expedited Review



Highway Fund Vote History Constitutional Amendments

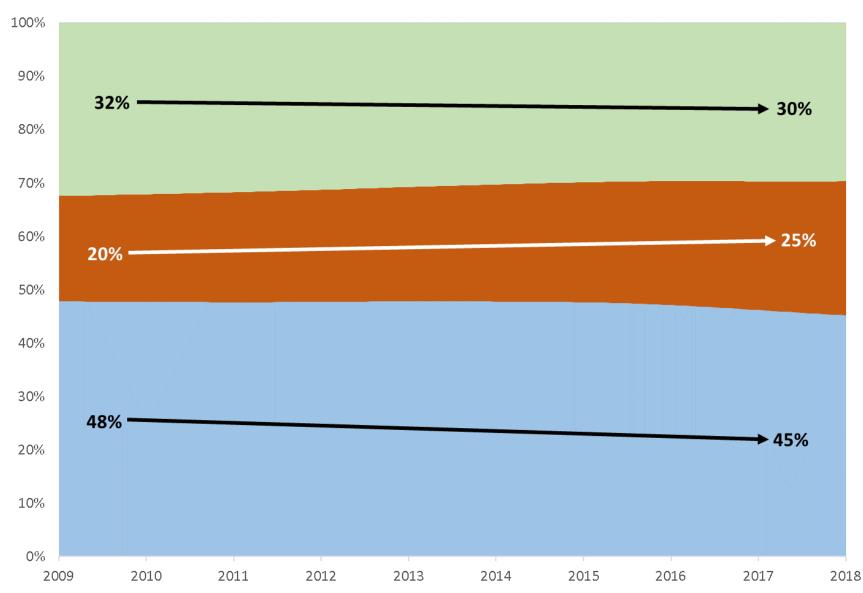
| Year | Description | Result | Vote | |
|------|--|--------|-------------|--|
| 1942 | Exclusive Use of Gasoline and Motor Vehicle Tax (Creating State Highway Fund) (Measure 3, Nov. 3, 1942) | Passed | 59.3 - 40.7 | |
| 1952 | Equitable Taxing Method for Use of Highways (amendment to prohibit weight-mile tax) (Measure 16, Nov. 4, 1952) | Failed | 21.8 - 78.2 | |
| 1974 | Highways Fund Use for Mass Transit (Measure 2, May 28, 1974) | Failed | 34.1 - 65.9 | |
| 1976 | Authorize Vehicle Tax for Mass Transit (Measure 4, May 25, 1976) | Failed | 24.3 - 75.7 | |
| 1980 | Limit Use of Gasoline and Highway User Taxes (Measure 1, May 20, 1980) | Passed | 63.7 - 36.3 | |
| 1990 | Allow Local Vehicle Tax for Transit (Measure 1, May 15, 1990) | Failed | 47.5 - 52.5 | |
| 1992 | Allow Future Fuel Taxes for Police (Measure 1, May 19, 1992) | Failed | 35.1 - 64.9 | |
| 1992 | Allow Future Fuel Taxes for Parks (Measure 2, Nov. 3, 1992) | Failed | 27.7 - 62.3 | |
| 1994 | Allow New Fuel Tax Revenue for Transit and Parks (Measure 2, May 17, 1994) | Failed | 26.1 - 63.9 | |
| 1999 | Require Road User Taxes To Be Fair and Proportionate (Measure 76, Nov. 2, 1999) | Passed | 54.2 - 45.8 | |
| 2000 | Allow Road User Taxes And Fees For Highway Policing (Measure 80, May 16, 2000) | Failed | 35.7 - 64.3 | |
| 2004 | Remove "Mobile Home" From Constitutional Description Of Motor Vehicles (Measure 32, Nov. 2, | Passed | 61.3 - 38.7 | |

Barriers to Change



Oregon's Passenger Vehicle Shares by Vehicle Class

Cars SUVs Trucks & Vans



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Oregon's Passenger Vehicle Shares by Fuel Type

| Year | ZEV | Hybrid | Gasoline & Ethanol | Diesel |
|----------|------|--------|-----------------------|--------|
| 2009 | 0.0% | 1.0% | 94.0% | 4.9% |
| 2010 | 0.0% | 1.2% | 93.8% | 5.0% |
| 2011 | 0.0% | 1.3% | 93.6% | 5.1% |
| 2012 | 0.1% | 1.5% | 93.2% | 5.2% |
| 2013 | 0.1% | 1.8% | 92.8% | 5.3% |
| 2014 | 0.2% | 2.0% | 92.5% | 5.4% |
| 2015 | 0.2% | 2.1% | 92.2% | 5.4% |
| 2016 | 0.3% | 2.3% | 91.9% | 5.5% |
| 2017 | 0.4% | 2.4% | 91.7% | 5.4% |
| 2018 | 0.6% | 2.6% | 91.5% | 5.4% |
| Oct-2019 | 0.8% | 2.8% | 90.9% | 5.6% |

Why change is slow to occur

Average Age (years) – Vehicles are getting older Low High 11.1 in 2009 13.2 in 2017

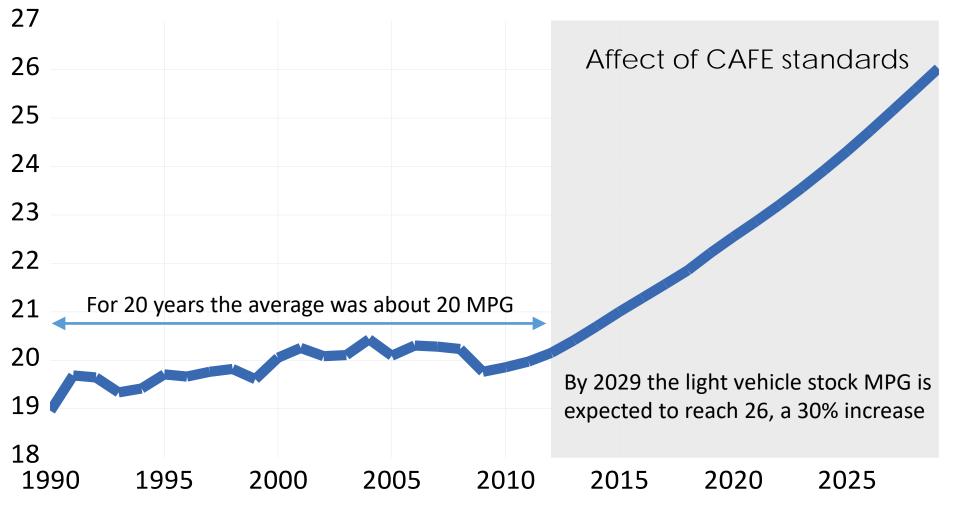
Replacement Rates

- 15% of passenger vehicles are replaced each year
 - 10% are replaced by used vehicles
 - 5% are replaced by new vehicles

Other factors like consumer preferences, household incomes, vehicle prices, and fuel prices

Implications for the Highway Fund







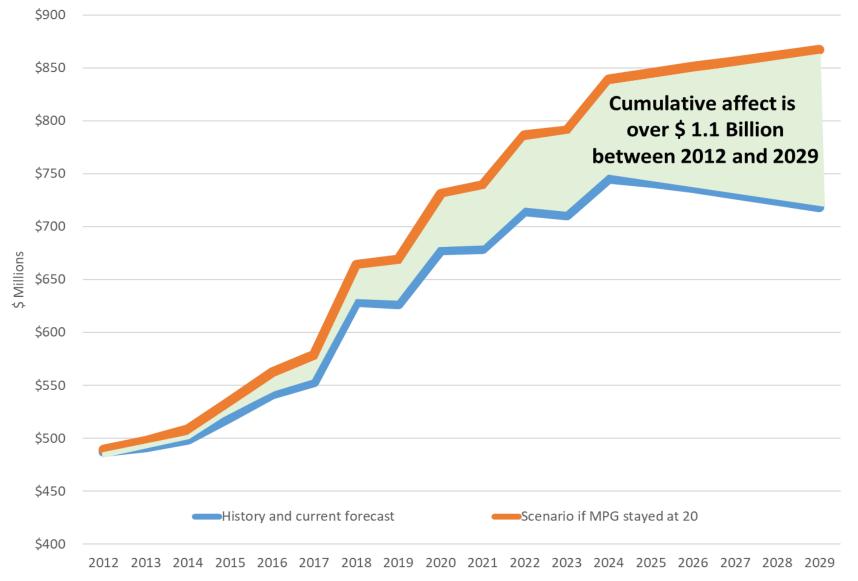


2000 Silverado 17/23

2020 Silverado 23/33

Using the 30% increase in stock MPG by 2029, this translates into about an 18% decrease in fuel consumption.

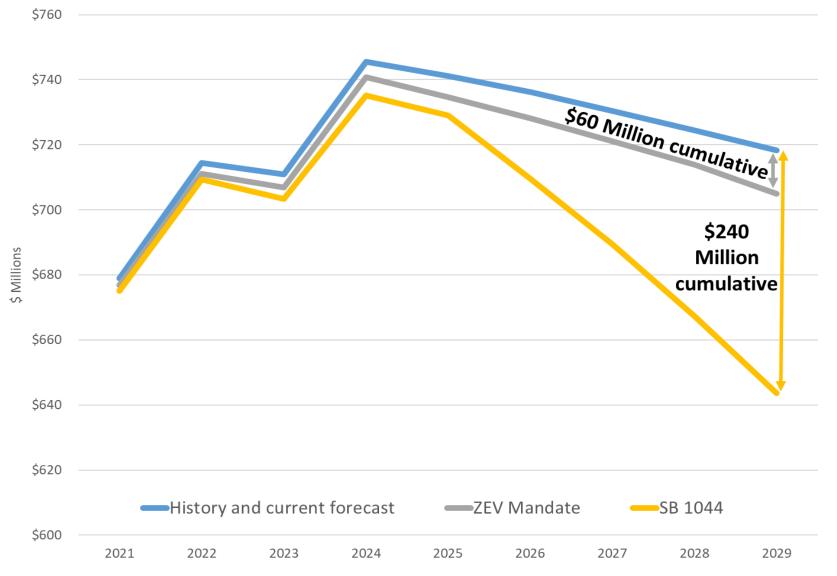
Gross Motor Fuels Tax Revenue



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Source: ODOT October 2019 State Revenue Forecast

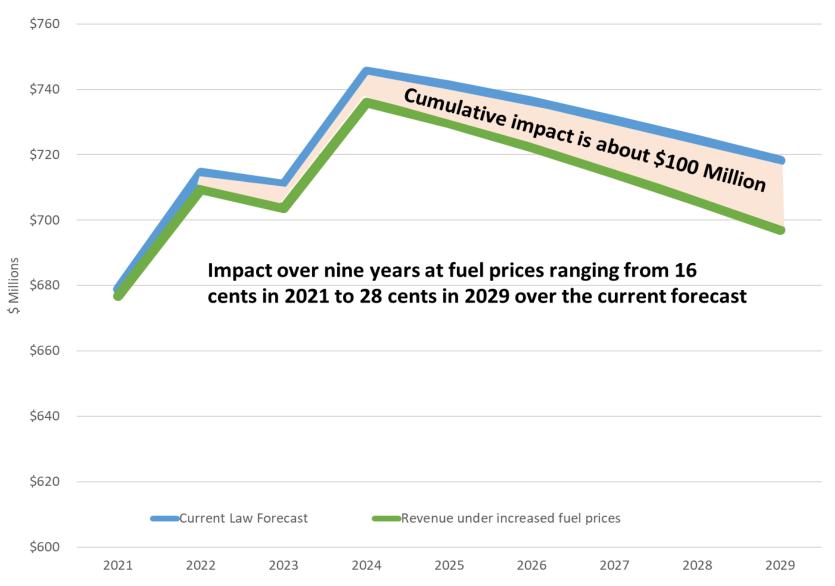
Gross Motor Fuels Tax Revenue Under Alternative EV Policies



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Source: ODOT October 2019 State Revenue Forecast & RUC Financial Model

Implications for the Highway Fund - Fuel Price Affects from Cap and Trade Gross Motor Fuels Tax Revenue

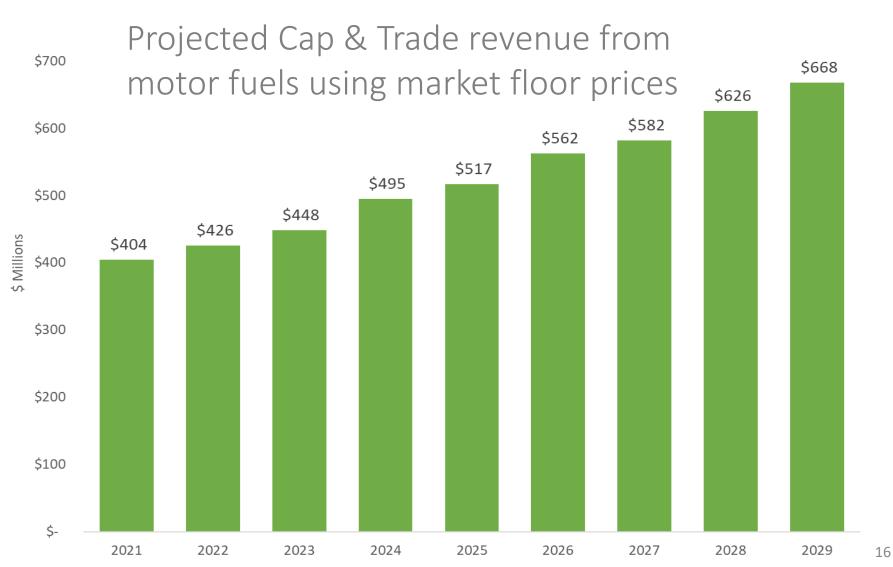


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Source: ODOT October 2019 State Revenue Forecast

Implications for the Highway Fund – Fuels based Cap & Trade Revenue

\$800



Source: ODOT October 2019 State Revenue Forecast & WCI Floor prices