

ZEST Night May 8, 2017:

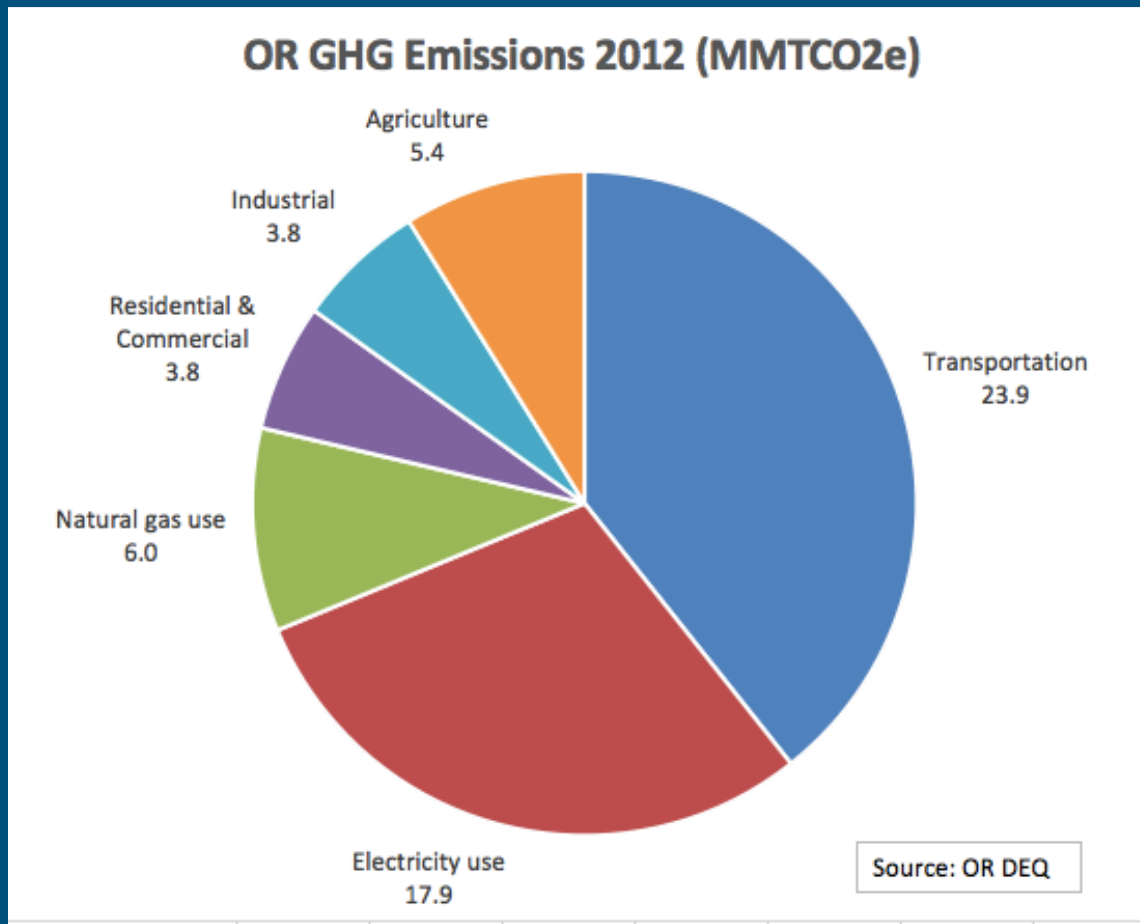
Electric and Autonomous Vehicles



Zero
Emission
Solutions and
Technologies

GHG Emissions

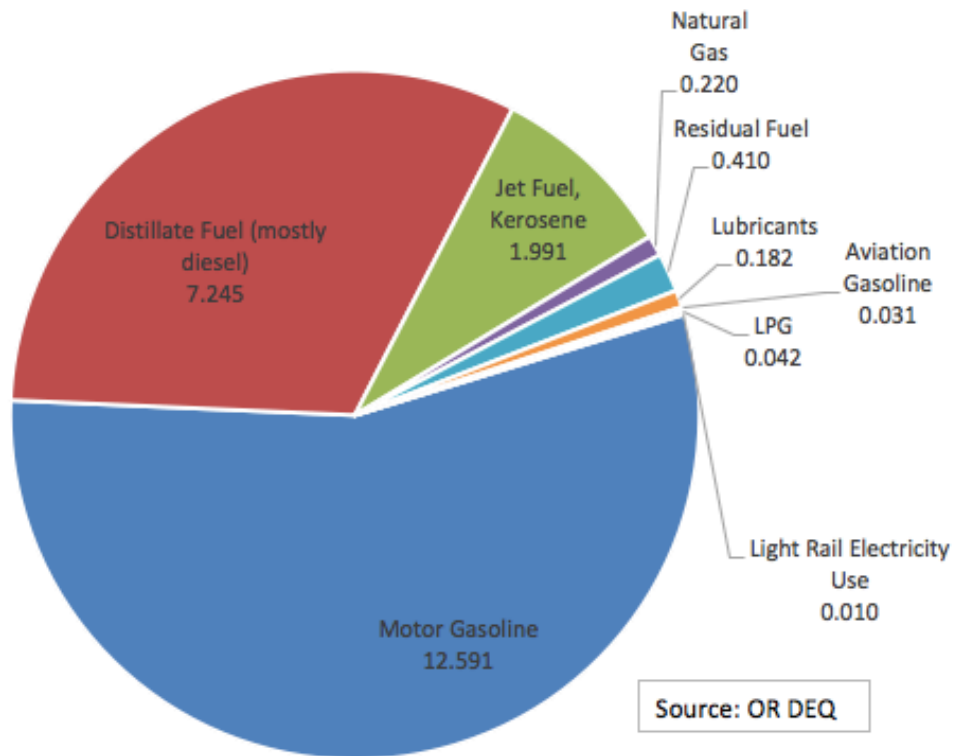
Dominated by energy
used in buildings and
transportation



Emissions from Transportation

Dominated by gasoline and diesel

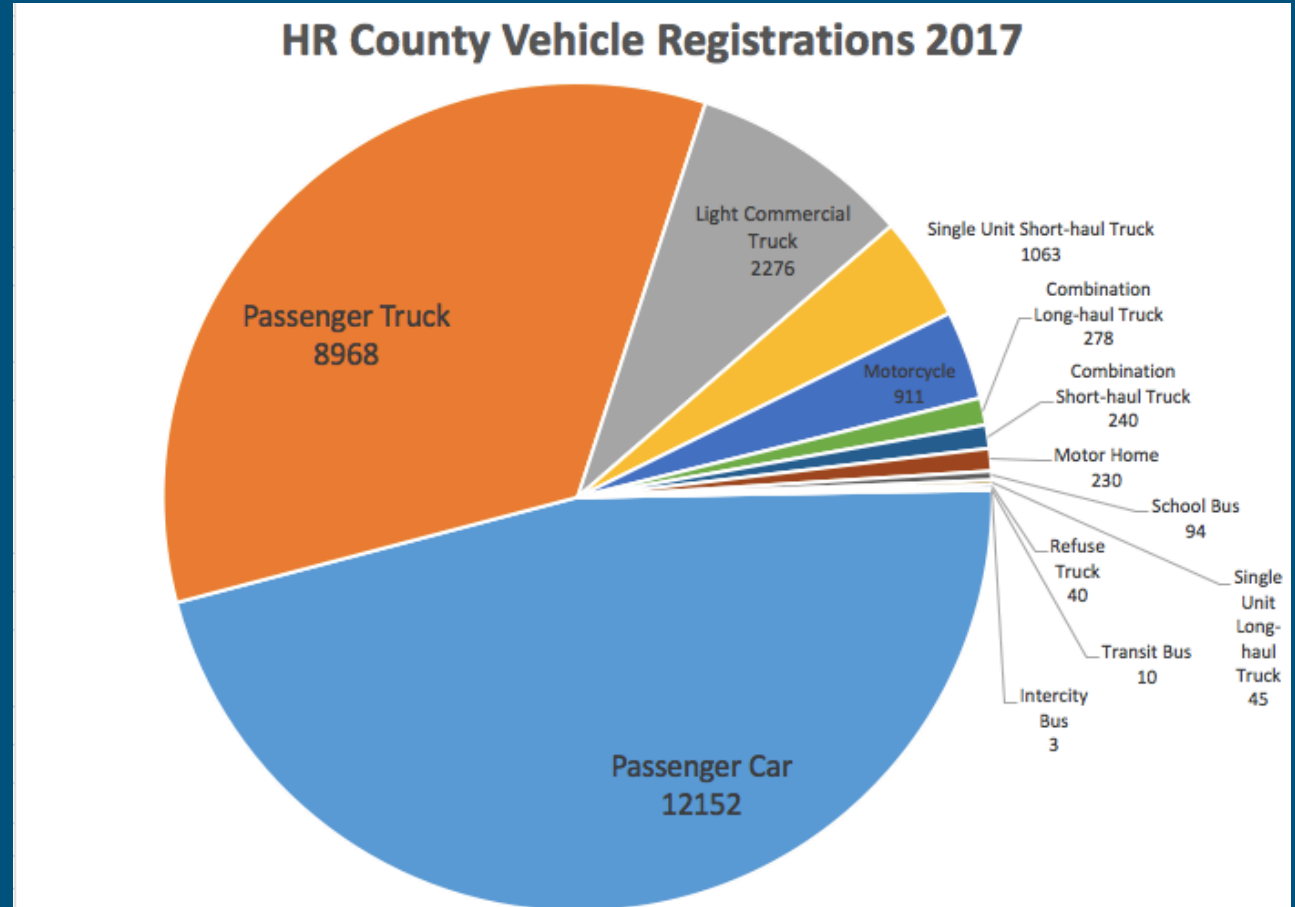
OR Transportation Emissions 2012 (MMTCO₂e)



Hood River County Vehicles

Dominated by
passenger cars
and trucks

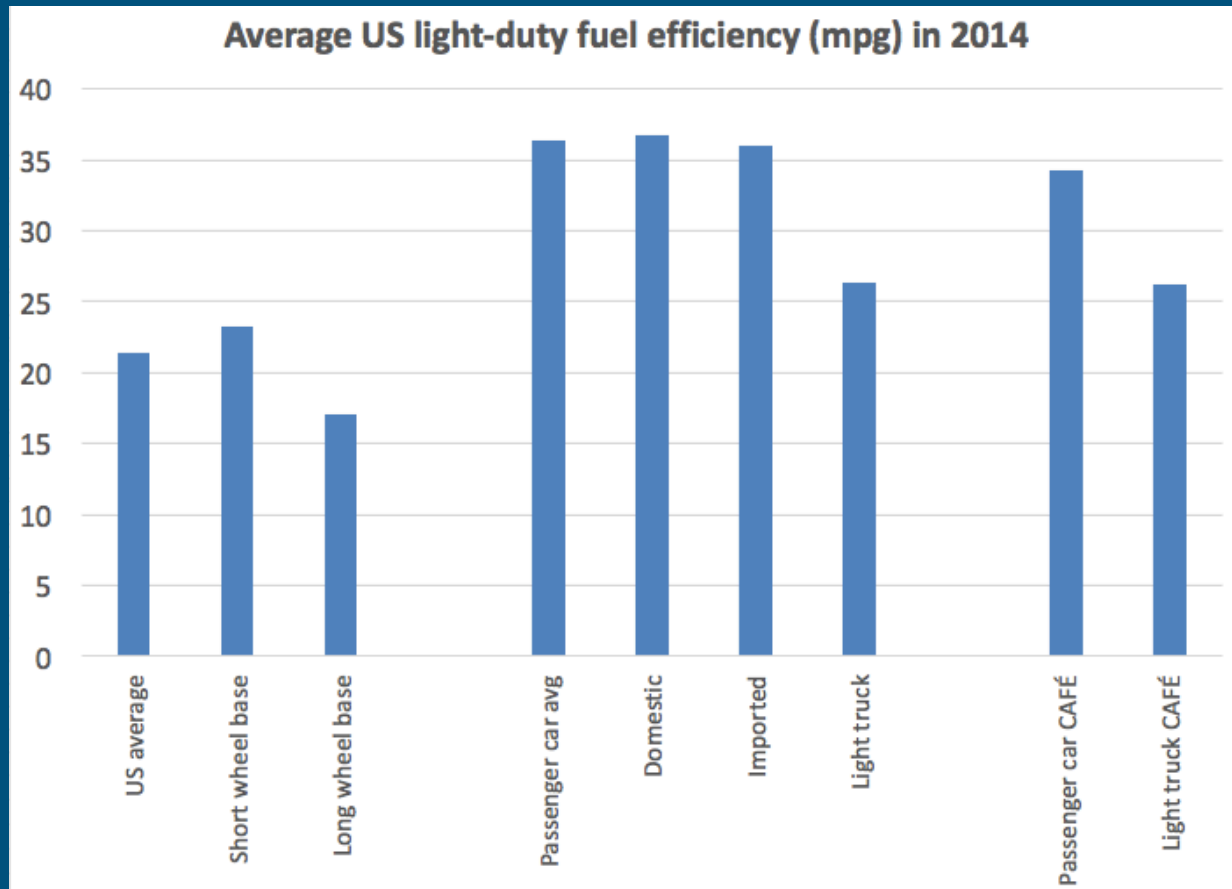
Source: ODOT
MOVES modeling



Average Fuel Efficiencies

Improving due to
CAFÉ standards

Source: US DOT



Columbia Gorge Express

Hood River County CAT
(Columbia Area Transit)
Ridership: 20,000 yearly

Vs

Gorge Express

Rooster Rock -> Multnomah Falls
First year, 50,000 riders (10 weekends)
*Considering expansion to HR





inerranger/BeautifulHoodRiver.com



HOOD RIVER
WESTSIDE
AREA

Concept Plan

Personal Vehicles



What Zero Emission Alternatives do we have?




Hydrogen Fuel Cell
(Toyota Mirai)




Electric vehicles
(Tesla Model 3)



Two-wheeled and cycle-
type vehicles
(Electric Bike)



What do we need to know to make
EVs a viable option to reduce
Fossil Fuel Emissions in Hood
River County?



Do EVs really reduce GHG emissions?

<https://www.youtube.com/watch?v=qMJNvQ8X5Fw>

4 mins (stop at 4)

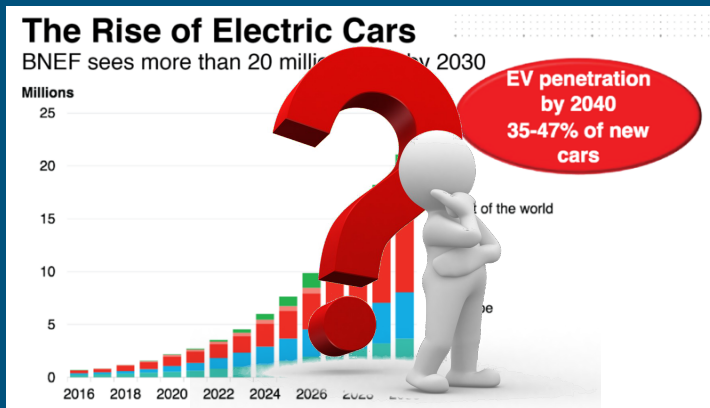
Are EVs economically viable?

<https://www.youtube.com/watch?v=Kxryv2XrnqM&t=1506s> 23:10-29:30

Tony Seba's Clean Disruption Keynote presentation at the Swedbank
Nordic Energy Summit in Oslo, Norway, March 17th, 2016.

EV Forecasts

- Bloomberg New Energy Finance predicts 35-47% of new Vehicles will be EVs by 2040
- British Petroleum (BP) predicts 1% of new vehicles by 2040
- Tony Seba (CEO, Author, Keynote etc) predicts ALL New cars will be EVs by 2025



= Who Knows?

How can we encourage the use of EVs in the Gorge?



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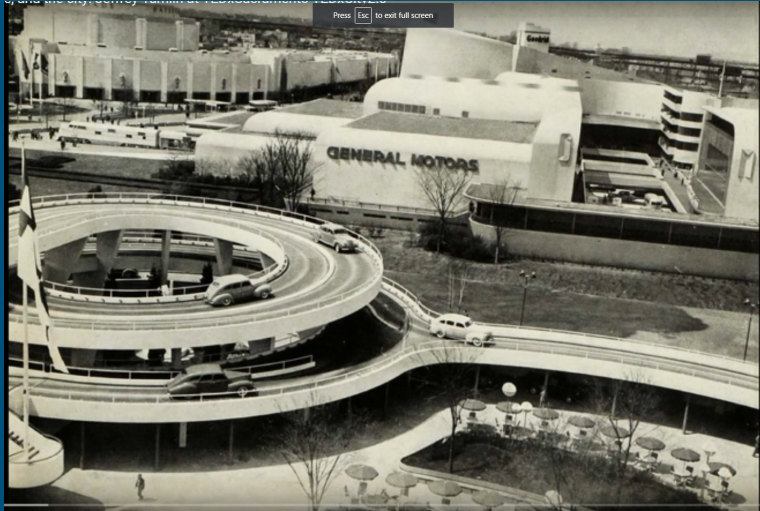


<https://www.youtube.com/watch?v=kk6UmbMLShg>

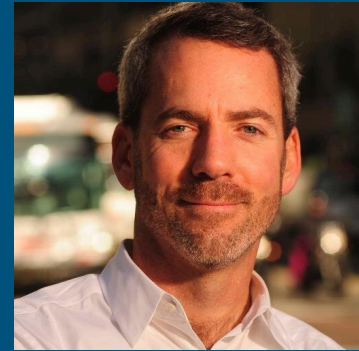


Autonomous Vehicles

<https://about.bnef.com/blog/liebreich-state-industry-keynote-bnef-global-summit-2017/>
(33:27- 38)



Lessons for a Changing World: Autonomous Vehicles (AVs)



- Considerations for managing AVs

- Mobility as a service (Most Space Efficient)

- But: BEWARE of Ads

JEFFREY TUMLIN
LEADING CITY PLANNING AND MOBILITY CONSULTANT

- Parking revenue and gas tax will be eliminated. How do you make up for that revenue?

- “Manage for the public good, not private gain”

- Pedestrians still most efficient use of space

- Specifics for Rural Communities

- “Transportation as a service will take longer, individual ownership for longer”

- Autonomous farm equipment is something to have on your radar