

Informational: Oregon Clean Fuels Program Updates

Oregon Environmental Quality Commission meeting Item B

May 19, 2022

Colin McConnaha, Manager, Office of Greenhouse Gas Program **Cory-Ann Wind**, Oregon Clean Fuels Program Manager



Oregon Greenhouse Gas Emissions





Decarbonizing the Transportation Sector





The Current Clean Fuels Program



Office of Greenhouse Gas Programs – Oregon Clean Fuels Program

Clean Fuels Available in Oregon





Oregon Clean Fuels Standards





Reducing Greenhouse Gases





DEO

Displacing Fossil Fuels



8

Increasing Investments in the CFP Market



Reducing Greenhouse Gases



Office of Greenhouse Gas Programs – Oregon Clean Fuels Program

Lowering the Cost of Low-Carbon Fuels

This is what you would typically get	This is a lower carbon option	CFP credits brings the cost down by this much
B5 (5% soybean)	B20 (20% used cooking oil)	24 cents/gal
	R99 (99% soybean)	95 cents/gal
Propane (fossil)	Renewable propane (tallow)	43 cents/gal
Compressed Natural Gas (fossil)	Renewable Natural Gas (landfill gas)	39 cents/therm
	Renewable Natural Gas (dairy manure biogas)	\$4.35/therm



Electric Utility Investments







- Over \$40 million in investments to electrify transportation
- Public charging stations
 throughout Oregon
- Oregon's first electric school buses
- Dozens of grants to communitybased organizations
- Workforce training programs at Clackamas and Klamath Falls Community Colleges
- Oregoin' Electric statewide media campaign



Clean Fuels Produced in Oregon





DEO

Studies to Inform the Expansion of the Clean Fuels Program



Office of Greenhouse Gas Programs – Oregon Clean Fuels Program

Long-Term Illustrative Compliance Scenarios



Key findings:

- SB 1044/Advanced Clean Cars 2 will mandate all electric light-duty cars
- Advanced Clean Trucks will require electric medium- and heavy-duty trucks
- Electrification alone achieves
 >25% CI reductions so a higher target is needed to support all clean fuels
- Higher blends of renewable diesel are probable



Health Benefits from an Expanded CFP



- DEQ commissioned modeling of tailpipe pollution implications for an expanded Clean Fuels Program
- Results were intuitive:
 - Largest pollution reductions along transportation corridors and urban areas
 - 15% decrease in diesel pollution in major cities
- Nearly \$90 million per year in avoided health costs for Oregonians
- Health benefits are greatest in low-income and BIPOC communities that are more frequently located near highways



What Does this Mean for Transportation Fuels in Oregon?



<u>By 2035:</u>

- Gasoline and diesel decrease by nearly 50 percent
- Biofuels increase through 2030 with increased blending
- Higher blending can't keep pace with liquid fuel displacement by electricity
- Post-2030 even biofuels begin slight decline
- Renewable diesel may play an important medium- or long-term role for certain equipment/vehicles and rural communities



Clean Fuels Program Expansion 2022 Rulemaking



Office of Greenhouse Gas Programs – Oregon Clean Fuels Program

Clean Fuels Program Expansion 2022 Rulemaking Timeline



DEO

Key Issues for the RAC

- How should we think about the Clean Fuels Program targets in relation to the state's GHG reduction goals?
- Complementary programs/policies need to be considered, such as the Climate Protection Program, the renewable fuel standard, ZEV regulations, clean energy requirements, etc.
- Co-benefits should be weighed alongside the primary greenhouse gas reduction goals
- There are mechanisms in the program designed to safeguard the supply and cost impacts of transitioning to lower-carbon fuels.
 - Annual fuel supply forecast and deferral
 - Credit clearance market.



Proposed Clean Fuel Standards



Key features of proposed expansion:

- 20% in 2030
- 37% in 2035
- Straight lines between
 - 2026-2030: 2% annual reductions
 - 2031-2035: 3.4% annual reductions



Program Review in 2029

- Proposed rules would require DEQ to conduct a program review for the EQC in 2029.
- This will provide the EQC with progress made in the CFP through the 2028 calendar year, and
- Assessment of whether the 2035 target remains appropriate or whether modifications are needed.



Questions?

Clean Fuels Program web page: <u>www.oregon.gov/deq/ghgp/cfp/Pages/default.aspx</u>

Clean Fuels Program Expansion 2022 rulemaking web page: <u>www.oregon.gov/deq/rulemaking/Pages/cfp2022.aspx</u>

Contact information:

Cory-Ann Wind, Oregon Clean Fuels Program Manager

cory.ann.wind@deq.oregon.gov

OregonCleanFuels@deq.oregon.gov

