

Oregon Clean Fuels Program Update

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Since 2016, the Clean Fuels Program has...

Reduced about 6 million tons of GHGs on a lifecycle basis

Supported the displacement of over 1 billion gallons of fossil fuels

Lowered the carbon intensity of ethanol and biodiesel by about 20%

Increased the blend rate of biodiesel & renewable diesel to about 12%

Enabled the state's utilities to invest almost \$20 million in EV projects

Types of Clean Fuels and Applications



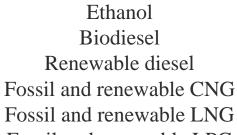










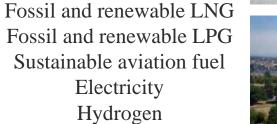




















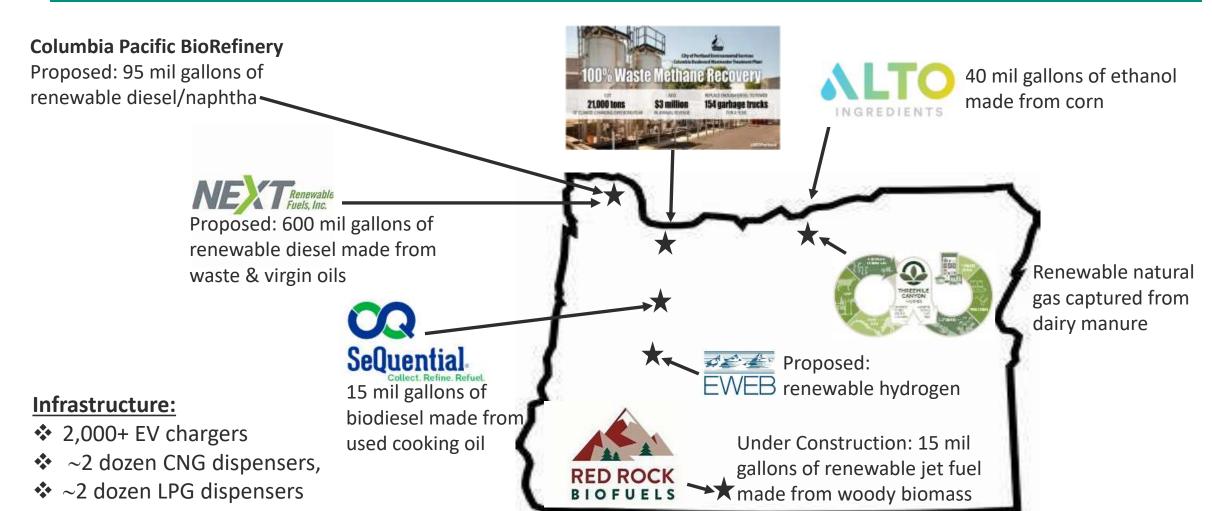








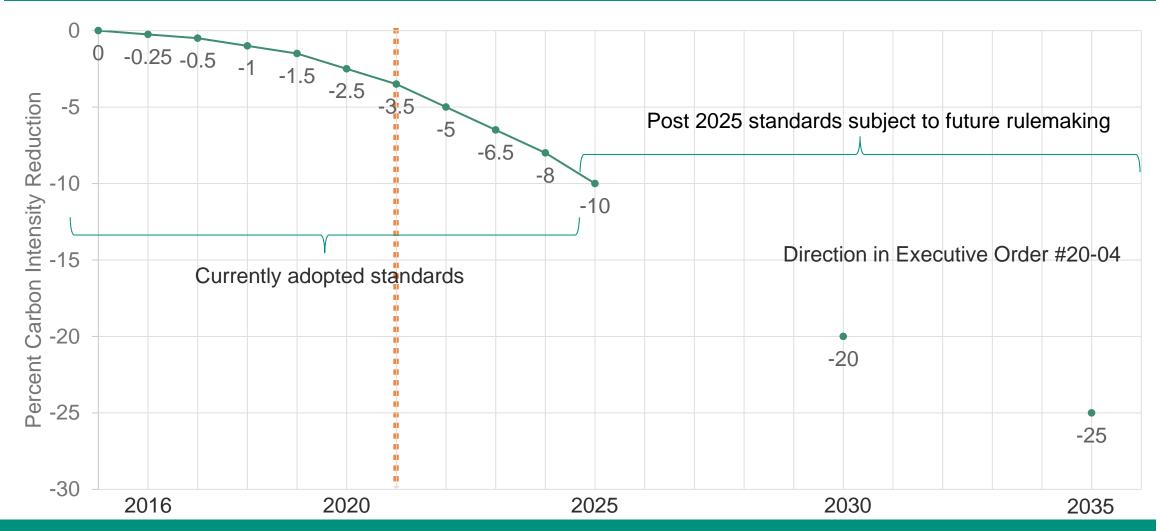
Clean Fuels Produced in Oregon



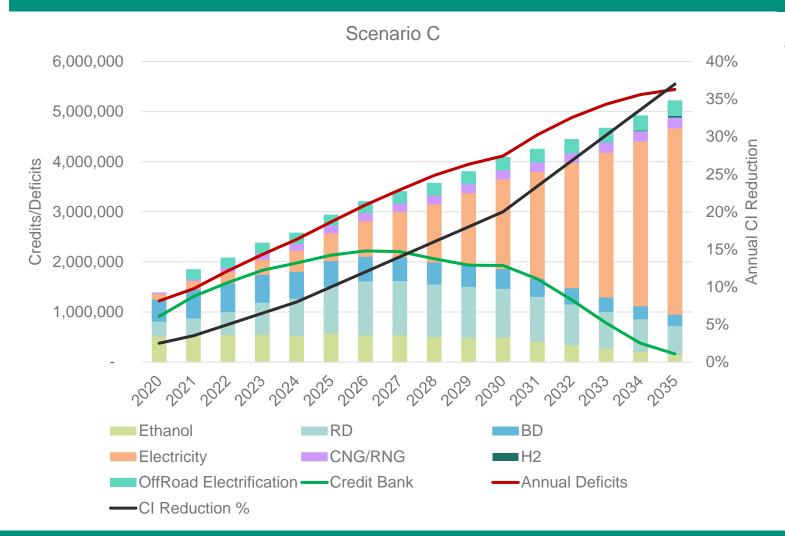
The Clean Fuels Market and Its Impact

- There are many ways to comply with the program:
 - generate their own credits
 - get the credits when they buy the biofuels
 - buy credits in the CFP market
- The Clean Fuels Market is worth approximately \$200 million.
- Credit prices increasing over the past 4 years; currently about \$125
- In 2021, about \$94 million worth of credit transfers were reported to CFP.
- For 2020, CFP cost was 3.7 cents per gallon of E10 and 4.2 cents per gallon of B5.
 - Conservative calculation: assumes regulated parties buy all their obligations through the credit market
 - This is the most expensive way to comply, and does not account for lower fuel costs associated with many of the alternative fuels.

Oregon Clean Fuels Standards



Potential Future of the Clean Fuels Program

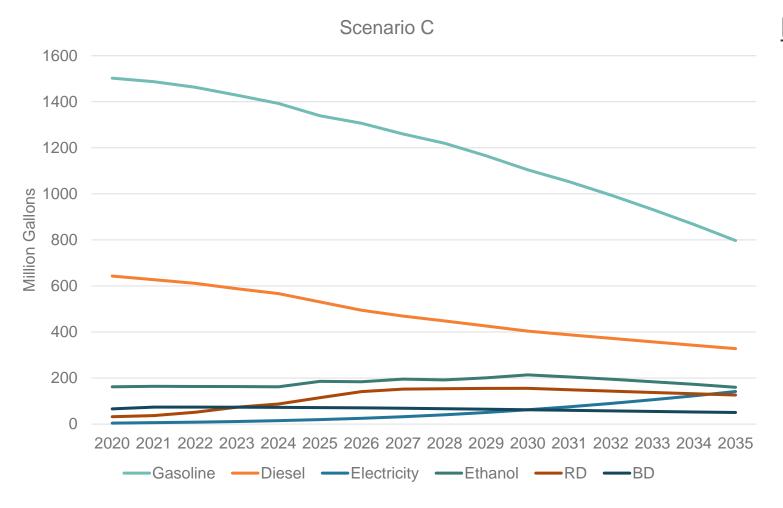


Key Takeaways:

- Advanced Clean Cars 2 & Advanced Clean Trucks will drive credit generation beginning around 2028
- Electricity both generate credits, and displaces deficits
- In 2035, 37% CI reductions are possible using a combination of biofuels and electricity
- Between 2026-2035: 37 million tons of tailpipe GHGs reduced
- Post-2035, credit generation will outpace deficit generation



The Future of Gasoline and Diesel



By 2035:

- Gasoline consumption will decrease by about 47%
- Diesel consumption will decrease by about 49%
- Biofuels play a declining role since they are typically blended with gasoline/ diesel or used as replacements, but they are still needed until electricity takes over
- Renewable diesel blend rate peaks at 25% but higher blends are probable



Decarbonizing the Transportation Sector

