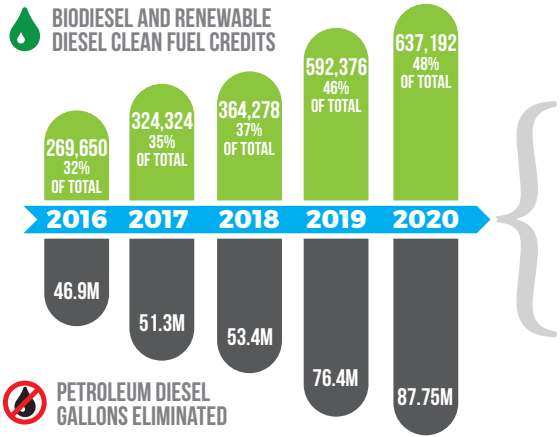


# OREGON'S CARBON SOLUTION

## Environmental Solutions



In 2016, biodiesel and renewable diesel generated one-third of Oregon Clean Fuels Program (CFP) credits. **In 2020, biodiesel and renewable diesel generated nearly half of all CFP credits.**

Particulate matter emissions **dropped by almost half when using B100** (100% biodiesel), and by **12% when using B20** (20% biodiesel).

- Hydrocarbon emissions were **reduced by nearly 75% using B100.**
- Carbon monoxide emissions decreased **48% with B100.**

**CO<sub>2</sub>** The most efficiently produced domestic biodiesel and renewable diesel achieves **carbon reductions of as much as 89%** compared to conventional diesel.

## Oregon's CARBON GOALS

45% GHG reduction *by 2035*  
80% GHG reduction *by 2050*



Oregon's Clean Fuels Program requires **GHG reductions of 20% by 2030 and 25% by 2035.** Transportation was the largest source of GHG emissions in 2016, producing **25 million metric tons of CO<sub>2</sub>** and **39% of Oregon's total emissions.**



Since 2016, the CFP has:

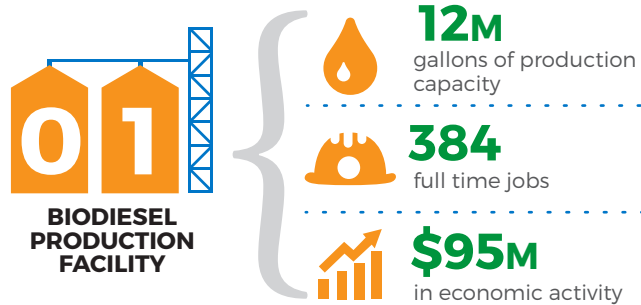
**Reduced lifecycle GHG emissions by 5.3 million tons**, including 1.3 million tons in 2020 alone

**Supported the displacement of about 1 billion gallons of fossil fuels**

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

**Increased the blend rate of biodiesel and renewable diesel to about 11.3%**

## Economic Opportunities



**135.8M**

Oregon's Renewable Fuel Standard requires **every gallon of diesel fuel sold in state contain at least 5% biodiesel.**

In 2016, Oregon's diesel fuel contained on average **6.7% biodiesel and renewable diesel.** By 2021, the average blend **increased to 11.3%, which equals 87.7 million gallons of clean fuel.**

**The biodiesel blend rate is expected to rise from 9% in 2020 to 10.5% in 2022,** while the renewable diesel blend rate is expected to rise from 2.4% to 6%.

**In 2022, 86.4 million gallons of Oregon's transportation fuel will be biodiesel and 49.4 million will be renewable diesel,** for a total of 135.8 million gallons of clean fuel.

Data sources: Oregon Department of Environmental Quality; LMC International, "Economic Impact of the U.S. Biodiesel Industry," 2019; Oregon Clean Fuels Program, Quarterly Data Summary; Oregon Global Warming Commission, "2018 Biennial Report to the Legislature."

### ABOUT BIODESEL AND RENEWABLE DIESEL

- Made from plant-based oils, used cooking oils, and animal fats
- Clean-burning
- Can be used in any diesel engine or heating equipment
- Commercially available nationwide
- Today's solution for heavy-duty trucking, emergency vehicles, bus fleets, and home or industrial heating