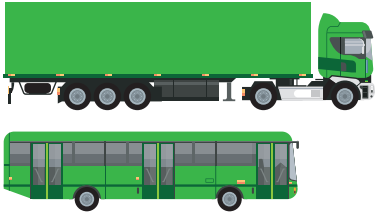




CLEAN FUELS: WASHINGTON'S CARBON SOLUTION

Environmental Solutions



Washington's **Clean Fuel Standard (CFS)** requires fuel suppliers to reduce the carbon intensity of transportation fuels to 20% below 2017 levels by 2038, **cutting statewide GHG emissions by 4.3 million metric tons a year.**



Under the CFS, Washington transportation fuels' carbon intensity will be reduced:

- Up to 0.5% per year in 2023 and 2024
- Up to an additional 1% per year from 2025 through 2027
- Up to an additional 1.5% per year from 2028 through 2031



By 2028, state law requires:

- Permitting of new, in-state biodiesel facilities with a production capacity of at least 60 million gallons per year, including at least one plant with a capacity of 10 million gallons/year
- 15% increase in biodiesel production using Washington feedstocks

The carbon intensity standard cannot exceed 10% until these requirements are met

Washington's CARBON GOALS



45% GHG reduction *by 2030*
70% GHG reduction *by 2040*
95% GHG reduction and **net-zero emissions** *by 2050*
(reductions from 2005 levels)

Transportation was the largest source of GHG emissions in 2018, producing **43.5 million metric tons of CO₂** and **44.9% of Washington's total emissions.**



Washington State Department of Transportation **GHG emissions are dominated by the ferry system.**



Washington State Ferries (WSF) plan to convert their fleet to **diesel-electric hybrids.**

Economic Solutions



107M
gallons of production capacity



3,400
full time jobs



\$800M
in economic activity

1.5M



In 2019, Washington state agencies - including universities - purchased over **1.5 million gallons of biodiesel, or 6.9% of all diesel fuel purchases.** This is an increase over the previous three years, when the level of biodiesel use by state agencies was roughly 5.5%.

1.2M



Washington State Ferries now run on B10 as their standard fuel, using 1.2 million of those 1.5+ million biodiesel gallons annually.

20%



All other Washington state agencies are required to purchase biodiesel for **20% of their annual diesel use.**

ABOUT BIODIESEL 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