

# 2026 Clean Fuels Forecast

## Background

Oregon Revised Statutes (2017) Chapter 750, Section 163 authorizes the Office of Economic Analysis (OEA), with substantial assistance from the Department of Environmental Quality, to assess the availability of fossil and alternative fuels to Oregon. In particular, the forecast is to determine whether fuel supply will be sufficient to generate the necessary number of carbon reduction credits from alternative fuels (ethanol, electricity, and diesel substitutes - including biodiesel, renewable diesel, natural gas, and propane) to meet the scheduled applicable low carbon fuel standards for the compliance period. The forecast report is required to include an assessment of banked deficits and credits at the beginning of the compliance period.

In preparing the forecast, the Office of Economic Analysis has formed a Clean Fuels Forecast Advisory Committee comprised of relevant experts and stakeholders to assist in reviewing forecast assumptions, as well as methodological considerations and potential data sources. A membership list can be found in Appendix A.

## Data Sources

The forecast uses available public and program data to develop the estimates of low-carbon fuels available to Oregon and projected volumes of fossil and alternative fuels in Oregon. The sources of these data include:

- Oregon Fuels Reporting System (OFRS)
- Fuel Pathway Codes (carbon intensity values) approved in Oregon and California
- Oregon Department of Transportation's (ODOT) Revenue Forecast
- Oregon Department of Transportation's Electric Vehicle Forecast
- Annual Energy Outlook and other resources from the US Energy Information Administration
- Trade associations (Renewable Fuels Association and the National Biodiesel Board) on their members' production capacity

## Clean Fuels Program 2026 Reported Volumes Forecast

To determine the number of deficits that will be generated in 2026, and thus the amount of credits needed for compliance, a forecast for the volumes reported to the Clean Fuels Program of all relevant fuels is made. The following are the volume projections for each fuel type.

### Motor Gasoline

1501.8 million gallons of gasoline, including ethanol, were reported to the program in 2024, the most recent full year of data available. ODOT's forecast for gasoline consumption projects a -0.5 percent annualized growth from 2024 to the 2026 compliance year, resulting in a projected volume of 1491.6 million gallons<sup>1</sup>. After subtracting the projected amount of ethanol (see below), the final forecast for conventional gasoline is 1339.5 million gallons.

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<sup>1</sup> The projected growth in Clean Fuels reported gasoline differs due to the inclusion of actuals for 2024 quarter one.

## **Diesel**

According to CFP reported data, 830.3 million gallons of diesel, including bio- and renewable diesel, were reported to the program in 2024, the most recent full year of data collected. Growth projections exhibited in the Oregon Department of Transportation's April 2024 forecast anticipate -2.4 percent growth annualized from 2024 to 2026. This results in a projected 791.2 million gallons of total diesel. After subtracting biodiesel and renewable diesel (see below), the final forecast for conventional diesel in 2026 is 502.4 million gallons.

## **Ethanol**

The amount of ethanol reported for 2024 equaled 150.0 million gallons. The amount of ethanol projected for 2026 is based on a blend rate assumption driven by historical observations and trends. The latest observation for an ethanol blend rate, for calendar year 2024, was 10.0 percent. Given the passage of House Bill 3051, which allows for blends above 10 percent, the assumption for 2025 is 10.1 percent. This results in a 2026 forecast for reported ethanol of 152.1 million gallons, which is 0.7 percent above the 2024 volume on an annualized basis.

## **Biodiesel**

The reported volume of biodiesel in 2024 amounted to 78.5 million gallons. The amount of biodiesel projected for 2026 is based on a blend rate assumption driven by historical observations and patterns. The biodiesel blend rate is expected to rise from 9.5 percent in 2024 to 11.5 percent for the 2026 compliance period, resulting in a volume projection of 91.0 million gallons. This represents growth of 7.6 percent from the 2024 actual on an annualized basis.

## **Renewable Diesel**

The amount of renewable diesel reported in 2024 was 169.9 million gallons. Similar to biodiesel, the forecast for renewable diesel is driven by the assumption of the fraction of total diesel reported comprised of renewable diesel. The blend rate observed for 2024 in the Clean Fuels data was 20.5 percent. The blend rate is assumed to increase to 25.0 percent in 2026, leading to a forecast for reported renewable diesel of 197.8 million gallons, a 7.9 percent increase from the 2024 value on an annualized basis.

## **Electricity**

Consumption of electricity for on-road vehicles is based on a projection of the number of plug-in hybrid and battery electric vehicles in use for the compliance period. The forecast equals an average of 43,372 Plug-in Hybrids and 110,651 Battery Electric vehicles. Estimates are employed for the average KWh charged per vehicle, both at a residence and at non-residential charging stations. When converted to gasoline gallon equivalents, the forecast is 18.7 million gallons including residential charging. This equates to a 28.7 percent increase from 2024 on an annualized basis.

For electricity reported for off-road use, a change in reporting requirements resulted in a temporary drop in the volume of off-road electricity in 2024, but volumes are expected to reach 5.2 million gallons in 2026. This is a 12.5 percent annualized rate compared to 2024.

## **Natural Gas and Liquefied Petroleum Gas**

The amount of natural gas, including renewable natural gas (biogas), reported in 2024 in gasoline gallon equivalents equaled 3.9 million gallons. Annualized growth from the 2024 base year to 2026 is assumed to be 3.3 percent. This results in a forecast of 4.2 million gallons. The blend rate for renewable natural gas is expected to stable at 99.0 percent, resulting in a volume of renewable natural gas of 4.2 million gasoline gallon equivalents.

Liquefied Petroleum Gas exhibits the smallest quantity of alternative fuel reported in 2024 at 2.6 million gallons. Annualized growth from the 2024 base year to 2026 is assumed to be 24.9 percent, resulting in a forecast of 4.1 million gallons.

The following table presents the 2026 reported volumes forecast in detail. Note that the percent change figures for 2026 represent annual growth from the last available actuals in 2024.

**Table 1: Summary of fossil and alternative fuel volumes**

**Table 1: Clean Fuels Forecast - Reported Volumes**

| (Mil. gallons, percent)        | 2022         | 2023         | 2024         | 2025F        | 2026F        | annual %ch<br>vs. 2024 |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|------------------------|
| Conventional Gasoline          | 1,359.2      | 1,325.4      | 1,351.9      | 1,360.2      | 1,339.5      | -0.5%                  |
| Ethanol                        | 149.6        | 154.8        | 150.0        | 152.1        | 152.1        | 0.7%                   |
| <i>Ethanol Blend Rate</i>      | <i>9.9%</i>  | <i>10.5%</i> | <i>10.0%</i> | <i>10.1%</i> | <i>10.2%</i> |                        |
| Blendstock                     | 1,508.8      | 1,480.2      | 1,501.8      | 1,512.3      | 1,491.6      | -0.3%                  |
| Fossil Diesel                  | 755.2        | 588.9        | 581.9        | 574.3        | 502.4        | -7.1%                  |
| Biodiesel                      | 81.6         | 78.9         | 78.5         | 79.9         | 91.0         | 7.6%                   |
| <i>Biodiesel Blend Rate</i>    | <i>9.2%</i>  | <i>9.9%</i>  | <i>9.5%</i>  | <i>10.1%</i> | <i>11.5%</i> |                        |
| Renewable Diesel               | 46.6         | 126.2        | 169.9        | 139.3        | 197.8        | 7.9%                   |
| <i>Renew diesel Blend Rate</i> | <i>5.3%</i>  | <i>15.9%</i> | <i>20.5%</i> | <i>17.6%</i> | <i>25.0%</i> |                        |
| Total Diesel                   | 883.5        | 794.0        | 830.3        | 793.5        | 791.2        | -2.4%                  |
| Electricity (on-road)          | 6.9          | 9.1          | 11.3         | 14.1         | 18.7         | 28.7%                  |
| Electricity (off-road)         | 6.3          | 4.3          | 4.1          | 4.6          | 5.2          | 12.5%                  |
| Fossil Natural Gas             | 0.2          | 0.0          | 0.0          | 0.0          | 0.0          | 56.8%                  |
| Biogas                         | 3.7          | 3.9          | 3.9          | 4.0          | 4.2          | 3.0%                   |
| <i>Biogas Blend Rate</i>       | <i>94.0%</i> | <i>99.1%</i> | <i>99.6%</i> | <i>99.1%</i> | <i>99.0%</i> |                        |
| Total Natural Gas              | 4.0          | 4.0          | 3.9          | 4.1          | 4.2          | 3.3%                   |
| Fossil LPG                     | 2.6          | 2.5          | 2.6          | 2.9          | 3.1          | 8.2%                   |
| Bio LPG                        | 0.7          | 0.7          | 0.0          | 0.5          | 1.0          |                        |
| <i>LPG Blend Rate</i>          | <i>20.7%</i> | <i>22.6%</i> | <i>0.0%</i>  | <i>15.2%</i> | <i>25.0%</i> |                        |
| Liquified Petroleum Gas        | 3.2          | 3.3          | 2.6          | 3.4          | 4.1          | 24.9%                  |

Notes:

Electricity and Natural Gas denoted in gasoline gallon equivalents.

On-road electricity includes a calculation for residential charging.

## Deficit and Credit Generation and Banked Credits

In order to estimate the number of deficits and credits associated with the reporting of each fuel type, the energy densities and carbon intensity differentials must be known. Most of the pertinent parameters are [published here](#) in administrative rule by the Department of Environmental Quality (see Tables 1, 2, 4, 6 and 7 in the PDF document referenced halfway down the page). The following table presents these parameters for each fuel. The highlighted carbon intensities for ethanol, biodiesel, renewable diesel, electricity and renewable natural gas are not set in rule and were discussed in detail by the advisory committee. Finally, energy economy ratios are presented for electric and natural gas engines.

**Table 2: Parameter values for the 2026 forecast**

**Table 2: Parameters for Clean Fuels Forecast**

|                    | Energy<br>Density | Carbon<br>Intensity<br>Target | Carbon Intensity Assumption |        |        |
|--------------------|-------------------|-------------------------------|-----------------------------|--------|--------|
|                    |                   |                               | 2024*                       | 2025   | 2026   |
| Gasoline           | 122.48            | 84.92                         | 100.14                      | 100.14 | 98.12  |
| Ethanol            | 81.51             | 84.92                         | 50.50                       | 48.00  | 47.50  |
| Diesel             | 134.48            | 90.4                          | 100.74                      | 100.74 | 104.92 |
| Biodiesel          | 126.13            | 90.4                          | 44.00                       | 43.50  | 42.50  |
| Renewable Diesel   | 129.65            | 90.4                          | 39.00                       | 36.00  | 37.00  |
| Electricity        | 3.60              | 84.92                         | 0.00                        | 0.00   | 0.00   |
| KWh/vehicle (res)  | 3103              |                               |                             |        |        |
| EERelect           | 3.40              |                               |                             |        |        |
| EER_NG             | 0.90              |                               |                             |        |        |
| Natural Gas        | 134.48            | 90.4                          | 79.98                       | 79.98  | 81.89  |
| Biogas             | 134.48            | 90.4                          | 2.50                        | 0.00   | 0.00   |
| Liq. Petroleum Gas | 89.63             | 84.92                         | 48.00                       | 45.00  | 45.00  |

\* represents the assumption for the 2025 Clean Fuels forecast.

## Banked Credits

The number of credits and deficits is taken from the OFRS. The number of gross credits registered through the end of calendar year 2024 equaled 13.6 million, while the number of deficits amounted to 12.3 million. The net credits banked equaled 1,362,564. OEA currently projects that 345,237 net credits will be subtracted from the bank during the 2025 compliance year. The total projected banked credits at the beginning of the 2026 compliance period is now expected to total 1,017,327.

**Table 3: Summary of actual and projected net banked credits**

| <b>Table 3: Net Banked Credits</b> |                    |                   |                    |                  |
|------------------------------------|--------------------|-------------------|--------------------|------------------|
|                                    |                    |                   |                    |                  |
| Year                               | Deficits           | Credits           | Net Banked Credits | Cumulative Total |
|                                    |                    |                   |                    |                  |
| 2016                               | -594,832           | 809,411           | 214,579            | 214,579          |
| 2017                               | -644,372           | 855,272           | 210,900            | 425,479          |
| 2018                               | -864,910           | 943,646           | 78,736             | 504,215          |
| 2019                               | -1,002,047         | 1,220,755         | 218,708            | 722,923          |
| 2020                               | -1,154,536         | 1,260,547         | 106,011            | 828,934          |
| 2021                               | -1,507,381         | 1,443,566         | -63,815            | 765,119          |
| 2022                               | -1,928,809         | 1,812,431         | -116,378           | 648,741          |
| 2023                               | -2,100,440         | 2,572,010         | 471,570            | 1,120,311        |
| 2024                               | -2,481,761         | 2,724,014         | 242,253            | 1,362,564        |
| 2025 est.                          | -2,907,528         | 2,562,291         | -345,237           | 1,017,327        |
| <b>Total</b>                       | <b>-15,186,617</b> | <b>16,203,944</b> | <b>1,017,327</b>   |                  |
|                                    |                    |                   |                    |                  |
| <b>Thru 2024</b>                   | <b>-12,279,089</b> | <b>13,641,653</b> |                    |                  |

### Credit and Deficit Summary

The table below summarizes the forecast for deficit generation and credit generation for both the 2026 compliance year, as well as the intervening 2025 that is still a forecast in the model. The 2026 forecast calls for 22,310 net credits to be subtracted from the credit bank, decreasing the credit bank to a projected total of 995,017. The equations for calculating the deficits and credits can be found in Appendix B.

**Table 4: Summary of Deficits and Credits**

### Credit / Deficit Summary

|                                   |                         | 2025F             | 2026F             |
|-----------------------------------|-------------------------|-------------------|-------------------|
| Deficits                          | Gasoline                | -1,985,160        | -2,165,592        |
|                                   | Diesel                  | -922,368          | -980,998          |
| <b>Deficit Total</b>              |                         | <b>-2,907,528</b> | <b>-3,146,590</b> |
| Credits                           | Ethanol                 | 507,013           | 464,062           |
|                                   | Biodiesel               | 454,644           | 549,695           |
|                                   | Renewable Diesel        | 985,570           | 1,369,380         |
|                                   | Electricity, on-road    | 465,634           | 559,478           |
|                                   | Electricity, off-road   | 96,819            | 121,398           |
|                                   | Natural Gas             | 42,475            | 45,618            |
|                                   | Liquified Petroleum Gas | 10,136            | 14,649            |
| <b>Credit Total</b>               |                         | <b>2,562,291</b>  | <b>3,124,280</b>  |
| <b>Net Credits/Deficits</b>       |                         | <b>-345,237</b>   | <b>-22,310</b>    |
| <b>Beginning Banked Credits</b>   |                         | <b>1,362,564</b>  | <b>1,017,327</b>  |
| <b>Total Net Credits/Deficits</b> |                         | <b>1,017,327</b>  | <b>995,017</b>    |

### Forecasted Fuel Supply Deferral Analysis

As shown above, the forecast does not imply such an action.

## Potential Supply of Alternative Fuels

Oregon Revised Statutes (2017) Chapter 750, Section 272 directs the Office of Economic Analysis to estimate the “potential volumes of gasoline, gasoline substitutes and gasoline alternatives and diesel, diesel fuel substitutes and diesel alternatives available to Oregon.” In order to make such estimates, a number of assumptions must be made. Potential is read to mean “could be made available to Oregon under a wide range of market conditions”. Currently, suppliers must be registered by the Department of Environmental Quality to deliver fuel into Oregon. In addition, they must report volumes of fuel sold in Oregon to the OFRS. Thus, the capacity of facilities that were certified for the most recent compliance period (2024) is assumed to be theoretically “available” to Oregon.

In addition, the Office of Economic Analysis is directed to consider “Constraints that may be preventing access to available and cost-effective low carbon fuels by Oregon, such as geographic and logistical factors, and alleviating factors to those constraints”. Only biofuels that might pose a supply constraint that could limit the number of credits available to deficit holders are called out explicitly. Should supply issues arise for the more mature fuel markets such as conventional gasoline and diesel, as well as electricity, such issues would be added to the report. This is not anticipated for the foreseeable future. See “Risks and Considerations” for more details regarding biofuel supply.

Table 5 presents Environmental Protection Agency data for renewable fuel production through the first six months of 2025. The current year’s production is estimated based on the year-over-year growth observed through June, assuming that this rate will hold for the year as a whole. Given the volumes and the near-term growth assumptions depicted in Table 1 above, none of the production figures presented would appear to pose supply issues for Oregon.

**Table 5: Renewable Fuel Production**

| EPA Renewable Fuel Standard Program - Reported Production |          |                 |                 |                 |                 |                 |                 |                 |                 |
|-----------------------------------------------------------|----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| (millions of gallons)                                     |          | 2018            | 2019            | 2020            | 2021            | 2022            | 2023            | 2024            | 2025 Est.       |
| Ethanol                                                   | Domestic | 14,985.8        | 14,746.4        | 12,870.7        | 14,138.5        | 14,439.8        | 14,700.6        | 14,935.0        | 14,924.2        |
|                                                           | Importer | 92.0            | 213.4           | 197.2           | 72.9            | 94.6            | 35.8            | 14.5            | 13.6            |
| <b>Total Ethanol</b>                                      |          | <b>15,077.8</b> | <b>14,959.7</b> | <b>13,067.9</b> | <b>14,211.4</b> | <b>14,534.5</b> | <b>14,736.4</b> | <b>14,949.5</b> | <b>14,937.7</b> |
| <b>Y/Y change</b>                                         |          | <b>0.7%</b>     | <b>-0.8%</b>    | <b>-12.6%</b>   | <b>8.8%</b>     | <b>2.3%</b>     | <b>1.4%</b>     | <b>1.4%</b>     | <b>-0.1%</b>    |
| Biodiesel                                                 | Domestic | 1,855.5         | 1,713.8         | 1,824.9         | 1,704.6         | 1,620.2         | 1,675.6         | 1,671.9         | 1,107.9         |
|                                                           | Importer | 175.1           | 184.7           | 209.5           | 208.5           | 240.4           | 511.4           | 407.7           | 26.1            |
| <b>Total Biodiesel</b>                                    |          | <b>2,030.6</b>  | <b>1,898.5</b>  | <b>2,034.4</b>  | <b>1,913.1</b>  | <b>1,860.6</b>  | <b>2,187.0</b>  | <b>2,079.6</b>  | <b>1,134.0</b>  |
| <b>Y/Y change</b>                                         |          | <b>-1.0%</b>    | <b>-6.5%</b>    | <b>7.2%</b>     | <b>-6.0%</b>    | <b>-2.7%</b>    | <b>17.5%</b>    | <b>-4.9%</b>    | <b>-45.5%</b>   |
| Renewable Diesel                                          | Domestic | 305.5           | 492.1           | 533.5           | 845.4           | 1,455.3         | 2,427.9         | 3,138.4         | 2,967.5         |
|                                                           | Foreign  | 309.8           | 420.4           | 435.5           | 471.0           | 446.4           | 480.8           | 430.1           | 56.3            |
| <b>Total Renewable Diesel</b>                             |          | <b>615.3</b>    | <b>912.5</b>    | <b>969.0</b>    | <b>1,316.4</b>  | <b>1,901.8</b>  | <b>2,908.6</b>  | <b>3,568.5</b>  | <b>3,023.7</b>  |
| <b>Y/Y change</b>                                         |          | <b>2.1%</b>     | <b>48.3%</b>    | <b>6.2%</b>     | <b>35.9%</b>    | <b>44.5%</b>    | <b>52.9%</b>    | <b>22.7%</b>    | <b>-15.3%</b>   |
| Renewable Natural Gas                                     | Domestic | 269.5           | 368.8           | 469.0           | 533.4           | 631.2           | 731.7           | 927.0           | 1,138.1         |
|                                                           | Importer | 35.8            | 35.6            | 34.9            | 36.1            | 37.1            | 43.3            | 46.2            | 44.7            |
| <b>Total Natural Gas</b>                                  |          | <b>305.4</b>    | <b>404.4</b>    | <b>503.9</b>    | <b>569.5</b>    | <b>668.3</b>    | <b>775.0</b>    | <b>973.3</b>    | <b>1,182.8</b>  |
| <b>Y/Y change</b>                                         |          | <b>25.9%</b>    | <b>32.4%</b>    | <b>24.6%</b>    | <b>13.0%</b>    | <b>17.3%</b>    | <b>16.0%</b>    | <b>25.6%</b>    | <b>21.5%</b>    |
| Propane                                                   | Domestic | 0.7             | 4.2             | 4.3             | 4.6             | 4.5             | 4.7             | 0.9             | 0.3             |
|                                                           |          |                 |                 |                 |                 |                 |                 |                 |                 |
| <b>Y/Y change</b>                                         |          |                 | <b>537.7%</b>   | <b>2.3%</b>     | <b>6.6%</b>     | <b>-2.3%</b>    | <b>5.2%</b>     | <b>-80.3%</b>   | <b>-63.3%</b>   |

Note: 2025 estimates based on year-over-year growth through first six months.



## Potential Supply of Biofuels

### Ethanol

As exhibited in Table 5, the potential supply of ethanol to Oregon per the methodology outlined above is 2.8 billion gallons. This compares to a projected reported volume for ethanol of 152.1 million gallons, or 5.4 percent of the potential supply, for the 2026 compliance period.

**Table 5: Ethanol Supply**

| <b>Ethanol Supply Available to Oregon</b><br>(Existing Suppliers in 2025) |                                   |                      |
|---------------------------------------------------------------------------|-----------------------------------|----------------------|
| State                                                                     | Nameplate Capacity (Mil. Gallons) | Number of Facilities |
| South Dakota                                                              | 1,081                             | 12                   |
| Nebraska                                                                  | 641                               | 8                    |
| Iowa                                                                      | 368                               | 5                    |
| Kansas                                                                    | 233                               | 3                    |
| North Dakota                                                              | 215                               | 2                    |
| Colorado                                                                  | 120                               | 2                    |
| Minnesota                                                                 | 118                               | 2                    |
| Oregon                                                                    | 44                                | 2                    |
| <b>Total Oregon Suppliers</b>                                             | <b>2,821</b>                      | <b>36</b>            |
| Data from Clean Fuels Program.                                            |                                   |                      |

### Biodiesel

Table 6 presents the potential supply of biodiesel to Oregon, equaling 937 million gallons in capacity for certified facilities in 2025. This compares to a projected volume of biodiesel in 2026 of 91.0 million gallons, or 9.7 percent of the potential supply.

**Table 6: Biodiesel Supply**

| <b>Biodiesel Supply Available to Oregon</b><br>(Existing Suppliers in 2025) |                                   |                      |
|-----------------------------------------------------------------------------|-----------------------------------|----------------------|
| Locality                                                                    | Nameplate Capacity (Mil. Gallons) | Number of Facilities |
| Iowa                                                                        | 218                               | 5                    |
| Illinois                                                                    | 120                               | 2                    |
| Washington                                                                  | 100                               | 1                    |
| Oregon                                                                      | 96                                | 2                    |
| Canada                                                                      | 92                                | 4                    |
| Arkansas                                                                    | 73                                | 2                    |
| Missouri                                                                    | 72                                | 2                    |
| California                                                                  | 54                                | 3                    |
| Oklahoma                                                                    | 35                                | 1                    |
| Minnesota                                                                   | 30                                | 1                    |
| South Korea                                                                 | 22                                | 2                    |
| Texas                                                                       | 13                                | 1                    |
| Mississippi                                                                 | 12                                | 1                    |
| Michigan                                                                    | 1                                 | 1                    |
| <b>Total Oregon Suppliers</b>                                               | <b>937</b>                        | <b>28</b>            |
| Data from Clean Fuels Program.                                              |                                   |                      |

### Renewable Diesel

As presented below, the potential supply of renewable diesel to Oregon equals 3.6 billion gallons. This compares to a projected volume of renewable diesel in 2026 of 197.8 million gallons, which translates to 5.4 percent of the potential supply.

**Table 7: Renewable Diesel Supply**

| <b>Renewable Diesel Supply Available to Oregon</b><br>(Existing Suppliers in 2025) |                                   |                      |
|------------------------------------------------------------------------------------|-----------------------------------|----------------------|
| Locality                                                                           | Nameplate Capacity (Mil. Gallons) | Number of Facilities |
| Louisiana                                                                          | 1,008                             | 2                    |
| California                                                                         | 953                               | 2                    |
| Texas                                                                              | 759                               | 1                    |
| Singapore                                                                          | 291                               | 1                    |
| Wyoming                                                                            | 261                               | 2                    |
| North Dakota                                                                       | 192                               | 1                    |
| Montana                                                                            | 184                               | 1                    |
| Washington                                                                         | 109                               | 1                    |
| Total Oregon Suppliers                                                             | 3,647                             | 10                   |
| Data from the Clean Fuels Program                                                  |                                   |                      |

### Renewable Natural Gas

The amount of renewable natural gas potentially available to Oregon amounts to 34.4 million gasoline gallon equivalents. This compares to a projected volume for this biofuel of 4.2 million gallon equivalents in 2026, or 12.2 percent of the potential supply.

**Table 8: Renewable Natural Gas**

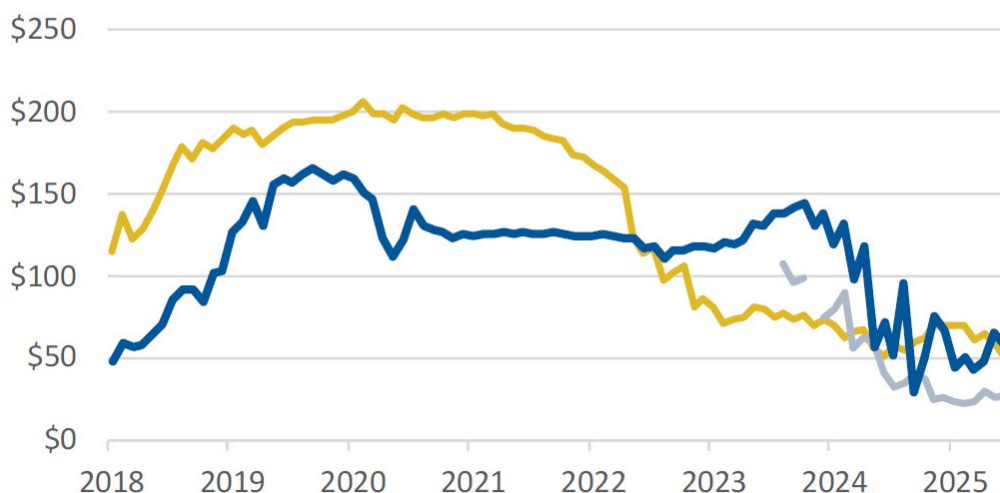
| <b>Renewable Natural Gas Supply Available to Oregon</b><br>(Existing Suppliers in 2025) |                                   |                      |
|-----------------------------------------------------------------------------------------|-----------------------------------|----------------------|
| Locality                                                                                | Nameplate Capacity (Mil. Gallons) | Number of Facilities |
| Louisiana                                                                               | 17.4                              | 1                    |
| Pennsylvania                                                                            | 17.0                              | 1                    |
| Texas                                                                                   | 10.0                              | 2                    |
| Wisconsin                                                                               | 0.04                              | 6                    |
| Washington                                                                              | 0.01                              | 1                    |
| New York                                                                                | 0.01                              | 2                    |
| Total Oregon Suppliers                                                                  | 34.4                              | 13                   |
| Data from the Clean Fuels Program                                                       |                                   |                      |

Finally, that a particular volume of fuel will make its way to Oregon depends on the relative value of the fuel between Oregon and other states. Currently, the value of credits, which are currently unique to Oregon, California, Washington and British Columbia, add a premium to the market value of the fuel relative to other states and for the most part ensure that sufficient supply will be available to Oregon. Oregon Revised Statutes (2017) chapter 750 section 166 subsection (4) specifies a maximum credit price, indexed for inflation. At some point in the future, this constraint could theoretically pose a barrier to supply. The chart below presents the recent history of the price of credits in Oregon, California and Washington, while British Columbia is omitted due to frequently missing data)<sup>2</sup>.

**Chart 1: Credit Prices**

## Carbon Credit Price Comparison

Oregon | California | Washington



Latest Data: June 2025 | Source: CA Air Resources Board, OR Dept of Environmental Quality, WA Dept of Ecology

<sup>2</sup> Information regarding credit prices is presented for informational purposes only. The reported volumes, credit/deficit and supply forecasts are not dependent on any specific credit price values.

## Forecast Risks and Considerations

This section highlights factors and considerations that could cause the projected volumes and associated credits and deficits to deviate from the baseline outlook presented earlier. In particular, there are a few potential risks to this 2026 Clean Fuels Forecast, both positive and negative, and they are:

- (a) The most fundamental risk to the forecast amounts to potential deviations from the assumptions highlighted in each fuel type discussion. In particular, blend rates and carbon intensities for biofuels could be subject to significant error.
- (b) This forecast represents a “current law” representation of the compliance period in question. OEA’s methodology does not take potential future state or federal policy actions into account.
- (c) There is a discrepancy between the diesel consumption numbers reported to the Clean Fuels Program data and the taxable gallons tabulated by ODOT. Explicitly, more gallons of diesel are reported to the former than the latter. This forecast applies projected growth of taxable diesel, at least initially, to the base year 2024 reported volumes of diesel in the CFP. To the degree that taxable gallons per ODOT are not a perfect proxy for reported gallons in the CFP, actual reporting of diesel to the Clean Fuels program, and thereby the number of deficits and credits generated could deviate from this forecast.
- (d) The ethanol availability presented above is not comprehensive and does not include other potential sources, such as sugarcane ethanol imported from Brazil. Given that potential supply characterized in table 5 greatly exceeds the projected 2025 volume, this is not an immediate threat to the forecast. However, it may need to be addressed as consumption increases or as carbon intensity targets are lowered.

In addition, the advisory committee in the past has discussed a couple of considerations outside the scope of the baseline forecast:

- (a) The supply forecast assumes that certified fossil and renewable fuel capacity is potentially available to Oregon fuel distributors and consumers. This depends on several factors, including transportation modalities and storage availability. While stated capacity may be more available in the urban corridor, it may not be universally available in the rural areas of the state. Specifically, storage options are limited outside of the Portland metropolitan region.
- (b) The impact of climactic conditions on the various fuels is another factor that is not explicitly considered in the supply forecast. For example, “cloud point”, i.e. the temperature at which a liquid begins to emulsify and/or solidify, is something that should be considered as biodiesel, renewable diesel and fossil diesel all have different cloud points and ways to address that concern.

### Accessibility

Documents can be provided upon request in an alternate format for individuals with disabilities or in a language other than English for people with limited English skills. To request a document in another format or language, text/call Mitchell D’Sa in the Office of Economic Analysis at (971) 718-2516 or email him at [mitchell.dsa@das.oregon.gov](mailto:mitchell.dsa@das.oregon.gov)

## Appendix A

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## Appendix B

The following are the formulas resulting in the deficits and credits presented in Table 4 of the Clean Fuels Forecast.

Gasoline

$$\text{Deficit}_G = \text{CBOB} * \text{ED}_G * (\text{CIT}_G - \text{CIA}_G)/1,000,000$$

Diesel

$$\text{Deficit}_D = V_D * \text{ED}_D * (\text{CIT}_D - \text{CIA}_D)/1,000,000$$

Ethanol

$$\text{Credit}_E = V_E * \text{ED}_E * (\text{CIT}_G - \text{CIA}_E)/1,000,000$$

Biodiesel

$$\text{Credit}_{BD} = V_{BD} * \text{ED}_{BD} * (\text{CIT}_D - \text{CIA}_{BD})/1,000,000$$

Renewable Diesel

$$\text{Credit}_{RD} = V_{RD} * \text{ED}_{RD} * (\text{CIT}_D - \text{CIA}_{RD})/1,000,000$$

Electricity

$$\text{Credit}_C = K_C * \text{EER}_C * \text{ED}_C * (\text{CIT}_G - (\text{CIA}_C/\text{EER}_C))/1,000,000$$

Natural Gas

$$\text{Credit}_{NG} = V_{FNG} * \text{ED}_D * \text{EER}_{NG} * (\text{CIT}_D - (\text{CIA}_{FNG}/\text{EER}_{NG}))/1,000,000 + V_{RNG} * \text{ED}_D * \text{EER}_{NG} * (\text{CIT}_D - (\text{CIA}_{RNG}/\text{EER}_{NG}))/1,000,000$$

Propane

$$\text{Credit}_P = V_P * \text{ED}_P * (\text{CIT}_G - \text{CIA}_P)/1,000,000$$

**Table B.1: Definition of Symbols**

|                                                                                      |                             |
|--------------------------------------------------------------------------------------|-----------------------------|
| Where:                                                                               |                             |
| G = Gasoline                                                                         | D = Diesel                  |
| CBOB = Conventional Blendstock<br>for Oxygenated Blending                            | E = Ethanol                 |
|                                                                                      | BD = Biodiesel              |
| ED = Energy Density                                                                  | RD = Renewable Diesel       |
| V = Volume consumed                                                                  | C = Electricity             |
| CIT = Carbon Intensity Target                                                        | NG = Natural Gas            |
| CIA = Carbon Intensity Actual                                                        | FNG = Fossil Natural Gas    |
| K = Total Kilowatts (Total Electric<br>Vehicles * Kilowatts Per Vehicle per<br>Year) | RNG = Renewable Natural Gas |
| EER = Energy Economy Ratio                                                           | P = Propane                 |