

Note: DEQ is proposing to make the current, temporary rules (included below) permanent. Therefore, no rule changes are indicated.

DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION 253

OREGON CLEAN FUELS PROGRAM

340-253-8010

Table 1 — Oregon Clean Fuel Standard for Gasoline and Gasoline Substitutes

| Oregon Department of Environmental Quality | | |
|--|---|-------------------|
| Table 1 – 340-253-8010 | | |
| Oregon Clean Fuel Standard for Gasoline and Gasoline Substitutes | | |
| Calendar Year | Oregon Clean Fuel Standard (gCO ₂ e per MJ) | Percent Reduction |
| 2015 | None (Gasoline Baseline is 98.62) | |
| 2016* | 98.37 | 0.25 percent |
| 2017 | 98.13 | 0.50 percent |
| 2018 | 97.63 | 1.00 percent |
| 2019 | 97.14 | 1.50 percent |
| 2020 | 96.15 | 2.50 percent |
| 2021 | 95.17 | 3.50 percent |
| 2022 | 93.69 | 5.00 percent |
| 2023 | 92.21 | 6.50 percent |

Oregon Department of Environmental Quality

Table 1 – 340-253-8010

Oregon Clean Fuel Standard for Gasoline and Gasoline Substitutes

| | | |
|-----------------|-------|--------------|
| 2024 | 90.73 | 8.00 percent |
| 2025 and beyond | 88.76 | 10.0 percent |

*Initial compliance period is a two-year period for 2016 and 2017. The 2016 standard is to be used only to calculate deficits and credits in 2016 under OAR 340-253-2010.

[ED. NOTE: Tables referenced are not included in rule text. [Click here for PDF copy of table\(s\).](#)]

Stat. Auth.: ORS 468.020 & 2009 OL Ch. 754 Sec. 6 (2011 Edition)

Stats. Implemented: 2009 OL Ch. 754 Sec. 6 (2011 Edition)

Hist.: DEQ 3-2015, f. 1-8-15, cert. ef. 2-1-15; DEQ 13-2015, f. 12-10-15, cert. ef. 1-1-16; DEQ 5-2016(Temp), f. & cert. ef. 4-22-16 thru 9-1-16

340-253-8020

Table 2 — Oregon Clean Fuel Standard for Diesel Fuel and Diesel Substitutes

State of Oregon Department of Environmental Quality

Table 2 – 340-253-8020

Oregon Clean Fuel Standard for Diesel Fuel and Diesel Substitutes

| Calendar Year | Oregon Clean Fuel Standard (gCO ₂ e per MJ) | Percent Reduction |
|---------------|---|-------------------|
| 2015 | None (Diesel Baseline is 99.64) | |
| 2016* | 99.39 | 0.25 percent |
| 2017 | 99.14 | 0.50 percent |
| 2018 | 98.64 | 1.00 percent |
| 2019 | 98.15 | 1.50 percent |

| State of Oregon Department of Environmental Quality | | |
|---|-------|---------------|
| Table 2 – 340-253-8020 | | |
| Oregon Clean Fuel Standard for Diesel Fuel and Diesel Substitutes | | |
| 2020 | 97.15 | 2.50 percent |
| 2021 | 96.15 | 3.50 percent |
| 2022 | 94.66 | 5.00 percent |
| 2023 | 93.16 | 6.50 percent |
| 2024 | 91.67 | 8.00 percent |
| 2025 and beyond | 89.68 | 10.00 percent |

*Initial compliance period is a two-year period for 2016 and 2017. The 2016 standard is to be used only to calculate deficits and credits in 2016 under OAR 340-253-2010.

[ED. NOTE: Tables referenced are not included in rule text. [Click here for PDF copy of table\(s\).](#)]

Stat. Auth.: ORS 468.020, 2009 OL Ch. 754 Sec. 6 (2011 Edition) & 2015 OL Ch. 4 Sec. 3

Stats. Implemented: 2009 OL Ch. 754 Sec. 6 (2011 Edition)

Hist.: DEQ 3-2015, f. 1-8-15, cert. ef. 2-1-15; DEQ 13-2015, f. 12-10-15, cert. ef. 1-1-16; DEQ 5-2016(Temp), f. & cert. ef. 4-22-16 thru 9-1-16

340-253-8030

Table 3 — Oregon Carbon Intensity Lookup Table for Gasoline and Gasoline Substitutes

| Oregon Department of Environmental Quality | | | | | |
|--|--------------------|---------------------|---|-----------------------------------|-----------------|
| Table 3 – 340-253-8030 | | | | | |
| Oregon Carbon Intensity Lookup Table for Gasoline and Gasoline Substitutes | | | | | |
| Fuel | Pathway Identifier | Pathway Description | Carbon Intensity Values (gCO ₂ e/MJ) | | |
| | | | Direct Lifecycle Emissions | Land Use or Other Indirect Effect | Total Emissions |

Oregon Department of Environmental Quality

Table 3 – 340-253-8030

Oregon Carbon Intensity Lookup Table for Gasoline and Gasoline Substitutes

| | | | | | |
|-------------------|-----------|---|--------|------|--------|
| Gasoline | ORGAS001 | Clear gasoline - based on a weighted average of gasoline supplied to Oregon | 100.77 | - | 100.77 |
| | ORGAS002 | Blended gasoline (E10) - 90% clear gasoline & 10% corn ethanol based on Midwest average | 98.54 | - | 98.54 |
| Ethanol from Corn | ORETHC001 | Midwest average - MW corn; Dry Mill; NG; MW production | 62.29 | 7.60 | 69.89 |
| | ORETHC002 | Oregon average - MW corn; Dry Mill; NG; Oregon production | 57.08 | 7.60 | 64.68 |

Oregon Department of Environmental Quality

Table 3 – 340-253-8030

Oregon Carbon Intensity Lookup Table for Gasoline and Gasoline Substitutes

| | | | | | |
|-------------------------|-----------|--|-------|-------|-------|
| Ethanol from Sugarcane | ORETHS001 | Brazilian sugarcane base case | 39.24 | 11.80 | 51.04 |
| Ethanol from Sorghum | ORETHG001 | Sorghum; average | 66.96 | 19.40 | 86.36 |
| Ethanol from Molasses | ORETHM001 | Molasses; average | 41.03 | 11.80 | 52.83 |
| Compressed Natural Gas | ORCNG001 | North American NG delivered via pipeline; compressed in OR | 79.93 | - | 79.93 |
| | ORCNG002 | Landfill gas (biomethane) cleaned up to pipeline quality NG; compressed in OR | 50.26 | - | 50.26 |
| Liquefied Natural Gas | ORLNG001 | North American NG delivered via pipeline; liquefied in OR using liquefaction with 80% efficiency | 94.46 | - | 94.46 |
| | ORLNG002 | Landfill Gas (biomethane) to LNG liquefied in OR using liquefaction with 80% efficiency | 65.81 | - | 65.81 |
| Liquefied Petroleum Gas | ORLPG001 | Liquefied petroleum gas | 83.05 | - | 83.05 |
| Electricity | ORELC001 | Oregon average electricity mix | 31.85 | - | 31.85 |

NOTE: DEQ recognizes that indirect effects, including indirect land use change, are real. However the methodologies to quantify these effects are still in development. DEQ intends to monitor the science of indirect effect and will adjust carbon intensity values through future rulemaking as methodologies improve.

[ED. NOTE: Tables referenced are not included in rule text. [Click here for PDF copy of table\(s\).](#)]

Stat. Auth.: ORS 468.020, 2009 OL Ch. 754 Sec. 6 (2011 Edition) & 2015 OL Ch. 4 Sec. 3

Stats. Implemented: 2009 OL Ch. 754 Sec. 6 (2011 Edition) & 2015 OL Ch. 4 Sec. 3

Hist.: DEQ 8-2012, f. & cert. ef. 12-11-12; DEQ 15-2013(Temp), f. 12-20-13, cert. ef. 1-1-14 thru 6-30-14; DEQ 8-2014, f. & cert. ef. 6-26-14; Renumbered from 340-253-3010 by DEQ 3-2015, f. 1-8-15, cert. ef. 2-1-15; DEQ 13-2015, f. 12-10-15, cert. ef. 1-1-16; DEQ 5-2016(Temp), f. & cert. ef. 4-22-16 thru 9-1-16

340-253-8040

Table 4 — Oregon Carbon Intensity Lookup Table for Diesel and Diesel Substitutes

| Oregon Department of Environmental Quality | | | | | |
|--|--------------------|---|---|-----------------------------------|-----------------|
| Table 4 – 340-253-8040 | | | | | |
| Oregon Carbon Intensity Lookup Table for Diesel and Diesel Substitutes | | | | | |
| Fuel | Pathway Identifier | Pathway Description | Carbon Intensity Values (gCO ₂ e/MJ) | | |
| | | | Direct Lifecycle Emissions | Land Use or Other Indirect Effect | Total Emissions |
| Diesel | ORULSD001 | Clear diesel, based on a weighted average of diesel fuel supplied to Oregon | 101.65 | - | 101.65 |
| | ORULSD002 | Blended diesel (B5) - 95% clear diesel & 5% soybean biodiesel | 99.64 | - | 99.64 |
| Biodiesel | ORBIOD001 | Conversion of Midwest soybeans to biodiesel | 29.15 | 29.10 | 58.25 |

Oregon Department of Environmental Quality

Table 4 – 340-253-8040

Oregon Carbon Intensity Lookup Table for Diesel and Diesel Substitutes

| | | | | | |
|------------------|-----------|--|-------|-------|-------|
| | ORBIOD002 | Conversion of Used Cooking Oil to biodiesel where "cooking" is required; NW UCO; Oregon production | 18.12 | - | 18.12 |
| | ORBIOD003 | Conversion of tallow to biodiesel; MW tallow; MW production | 37.93 | - | 37.93 |
| | ORBIOD004 | Conversion of canola oil to biodiesel | 43.34 | 14.50 | 57.84 |
| | ORBIOD005 | Conversion of corn oil to biodiesel | 36.89 | - | 36.89 |
| Renewable Diesel | ORRNWD001 | Conversion of soybeans to renewable diesel | 23.15 | 29.10 | 52.25 |
| | ORRNWD002 | Conversion of Used Cooking Oil to renewable diesel | 19.25 | - | 19.25 |
| | ORRNWD003 | Conversion of tallow to renewable diesel | 29.96 | - | 29.96 |
| | ORRNWD004 | Conversion of canola oil to renewable diesel | 35.48 | 14.50 | 49.98 |
| | ORRNWD005 | Conversion of corn oil to renewable diesel | 33.64 | - | 33.64 |

Oregon Department of Environmental Quality

Table 4 – 340-253-8040

Oregon Carbon Intensity Lookup Table for Diesel and Diesel Substitutes

| | | | | | |
|-------------------------|----------|--|-------|---|-------|
| Compressed Natural Gas | ORCNG001 | North American NG delivered via pipeline; compressed in OR | 79.93 | - | 79.93 |
| | ORCNG002 | Landfill gas (biomethane) cleaned up to pipeline quality NG; compressed in OR | 50.26 | - | 50.26 |
| Liquefied Natural Gas | ORLNG001 | North American NG delivered via pipeline; liquefied in OR using liquefaction with 80% efficiency | 94.46 | - | 94.46 |
| | ORLNG002 | Landfill Gas (bio-methane) to LNG liquefied in OR using liquefaction with 80% efficiency | 65.81 | - | 65.81 |
| Liquefied Petroleum Gas | ORLPG001 | Liquefied petroleum gas, crude and natural gas mix | 83.05 | - | 83.05 |

[ED. NOTE: Tables referenced are not included in rule text. [Click here for PDF copy of table\(s\).](#)]

Stat. Auth.: ORS 468.020, 2009 OL Ch. 754 Sec. 6 (2011 Edition) & 2015 OL Ch. 4 Sec. 3

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Hist.: DEQ 8-2012, f. & cert. ef. 12-11-12; DEQ 15-2013(Temp), f. 12-20-13, cert. ef. 1-1-14 thru 6-30-14; DEQ 8-2014, f. & cert. ef. 6-26-14; Renumbered from 340-253-3020 by DEQ 3-2015, f. 1-8-15, cert. ef. 2-1-15; DEQ 13-2015, f. 12-10-15, cert. ef. 1-1-16; DEQ 5-2016(Temp), f. & cert. ef. 4-22-16 thru 9-1-16