

# Oregon Greenhouse Gas Reporting Program

## List of Potentially Regulated Entities Under Senate Bill 1070 (2017) 2016 Greenhouse Gas Emissions

The following tables list entities that could be regulated under the greenhouse gas (GHG) cap-and-trade program described in Senate Bill 1070(2017). These tables list emissions reported to [DEQ under our mandatory greenhouse gas reporting requirement](#) during the 2016 calendar year. There are several important assumptions and caveats that are described in advance of each of the tables.

### Natural Gas

Natural suppliers annually report to DEQ the total volume of natural gas imported and supplied to end users in Oregon. The table below lists the total volume of natural reported in 2016 and the associated emissions from the complete combustion of that gas in metric tons of carbon dioxide equivalent (MTCO<sub>2e</sub>). SB 1070 would cover all GHG emissions from natural gas combustion but regulation of these emissions could be at different potentially regulated parties. For example, natural gas combustion at a large facility could generate a compliance obligation at the facility level, leaving the remaining emissions from natural gas regulated at the supplier or distributor level. Thus, the following entities would likely be regulated under SB 1070, but not necessarily for all the gas they provide if the regulation were designed to separately cover the largest natural gas users.

#### Quantity and emissions reported by natural gas suppliers (MTCO<sub>2e</sub>)

| Natural Gas Supplier | Quantity (Mscf)    | Emissions MTCO <sub>2e</sub> |
|----------------------|--------------------|------------------------------|
| Avista Utilities     | 11,765,453         | 641,168                      |
| Cascade Natural Gas  | 26,710,513         | 1,520,872                    |
| Gas Transmission NW  | 81,529,590         | 4,443,019                    |
| KB pipeline          | 20,285,000         | 1,105,447                    |
| NW Natural           | 72,294,368         | 4,146,588                    |
| NW Pipeline GP       | 6,049,994          | 343,196                      |
| <b>Total</b>         | <b>218,634,918</b> | <b>12,200,289</b>            |

### Electricity

SB 1070 would cover emissions from imported electricity serving Oregonians. These emissions could be covered at utilities serving electricity from generation sources outside Oregon that exceed the 25,000 MTCO<sub>2e</sub> threshold identified in SB 1070. It is important to note that electricity generated in Oregon serving Oregon ratepayers would also be covered, but at the electricity generation facility rather than the utility or other entity responsible for providing electricity to Oregonians. Thus, nearly all greenhouse gas emissions associated with generation of electricity serving Oregon ratepayers would be covered by SB 1070, but utilities might only be directly regulated by the program for the emissions associated with generation of power they import. Below is a table of all 2016 emissions emitted from the generation of electricity provided to Oregon ratepayers as reported to DEQ by utilities and electric service providers. Only emissions from imported power would generate compliance obligation on these entities. Emissions from generation at in-state electricity generating units is listed separately in the table for large facilities.



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**Emissions reported by Oregon utilities (mtCO2e)**

| <b>Electricity Provider</b>         | <b>BPA market purchase</b> | <b>Other market purchases</b> | <b>Emissions from generating sources outside Oregon</b> | <b>Over 25,000 MTCO2e Threshold ?</b> | <b>Total emissions potentially regulated at the utility</b> | <b>Emissions from generating sources in Oregon</b> | <b>Total emissions</b> |
|-------------------------------------|----------------------------|-------------------------------|---------------------------------------------------------|---------------------------------------|-------------------------------------------------------------|----------------------------------------------------|------------------------|
| Ashland                             | 2,000                      |                               |                                                         | -                                     |                                                             |                                                    | 2,000                  |
| Bandon                              | 756                        |                               |                                                         | -                                     |                                                             |                                                    | 756                    |
| Blachly-Lane Electric Co-op         | 1,907                      | 4,264                         |                                                         | -                                     |                                                             |                                                    | 6,171                  |
| Calpine Energy Solutions            |                            | 768,807                       |                                                         | Yes                                   | 768,807                                                     |                                                    | 768,807                |
| Canby Utility Board                 | 2,060                      |                               |                                                         | -                                     |                                                             |                                                    | 2,060                  |
| Cascade Locks                       | 240                        |                               |                                                         | -                                     |                                                             |                                                    | 240                    |
| Central Electric Co-op              | 8,535                      | 2,647                         |                                                         | -                                     |                                                             |                                                    | 11,181                 |
| Central Lincoln PUD                 | 15,089                     |                               |                                                         | -                                     |                                                             |                                                    | 15,089                 |
| Clatskanie PUD                      | 9,612                      | 15,857                        |                                                         | Yes                                   | 25,468                                                      | 3,901                                              | 29,369                 |
| Clearwater Power Company            | 26                         |                               |                                                         | -                                     |                                                             |                                                    | 26                     |
| Columbia Basin Co-op                | 1,355                      |                               |                                                         | -                                     |                                                             |                                                    | 1,355                  |
| Columbia Power Co-op                | 317                        |                               |                                                         | -                                     |                                                             |                                                    | 317                    |
| Columbia Rural Electric             | 94                         |                               |                                                         | -                                     |                                                             |                                                    | 94                     |
| Columbia River PUD                  | 5,623                      |                               |                                                         | -                                     |                                                             |                                                    | 5,623                  |
| Constellation New Energy            |                            | 91,555                        |                                                         | Yes                                   | 91,555                                                      |                                                    | 91,555                 |
| Consumers Power, Inc                | 4,571                      | 10,636                        |                                                         | -                                     |                                                             |                                                    | 15,207                 |
| Coos-Curry Electric Co-op           | 3,953                      |                               |                                                         | -                                     |                                                             |                                                    | 3,953                  |
| Douglas Electric Co-op              | 1,813                      |                               |                                                         | -                                     |                                                             |                                                    | 1,813                  |
| Drain                               | 189                        |                               |                                                         | -                                     |                                                             |                                                    | 189                    |
| Emerald PUD                         | 5,250                      | 9,727                         |                                                         | -                                     |                                                             | 196                                                | 15,173                 |
| Eugene Water & Electric Board       | 23,299                     |                               |                                                         | -                                     |                                                             |                                                    | 23,299                 |
| Forest Grove Light & Power          | 2,852                      |                               |                                                         | -                                     |                                                             |                                                    | 2,554                  |
| Harney Electric Co-op               | 1,247                      |                               |                                                         | -                                     |                                                             |                                                    | 1,247                  |
| Hermiston Energy Services           | 1,241                      |                               |                                                         | -                                     |                                                             |                                                    | 1,241                  |
| Hood River Electric Co-op           | 1,394                      |                               |                                                         | -                                     |                                                             |                                                    | 1,394                  |
| Idaho Power Company                 |                            | 31,242                        | 219,617                                                 | Yes                                   | 250,859                                                     | 6,108                                              | 256,967                |
| Lane Electric Co-op                 | 2,735                      |                               |                                                         | -                                     |                                                             |                                                    | 2,735                  |
| McMinnville Water & Light           | 8,065                      |                               |                                                         | -                                     |                                                             |                                                    | 8,065                  |
| Midstate Electric Co-op             | 4,774                      |                               |                                                         | -                                     |                                                             |                                                    | 4,774                  |
| Milton-Freewater City Light & Power | 1,193                      |                               |                                                         | -                                     |                                                             |                                                    | 1,193                  |
| Monmouth                            | 837                        |                               |                                                         | -                                     |                                                             |                                                    | 837                    |
| Northern Wasco PUD                  | 4,881                      |                               |                                                         | -                                     |                                                             |                                                    | 4,881                  |
| Oregon Trail Electric Co-op         | 6,698                      |                               |                                                         | -                                     |                                                             |                                                    | 6,698                  |
| Pacific Power (PacifiCorp)          |                            | 8,292,203                     |                                                         | Yes                                   | 8,292,203                                                   | 209,710                                            | 8,501,913              |
| Portland General Electric (PGE)     | 22,479                     | 586,595                       | 2,131,826                                               | Yes                                   | 2,740,900                                                   | 3,707,654                                          | 6,448,554              |
| Salem Electric                      | 3,786                      |                               |                                                         | -                                     |                                                             |                                                    | 3,786                  |
| Shell Energy North America          |                            |                               | 7,836                                                   | -                                     |                                                             |                                                    | 7,836                  |
| Springfield Utility Board           | 8,977                      |                               |                                                         | -                                     |                                                             |                                                    | 8,977                  |

|                                 |                |                  |                  |     |                   |                  |                   |
|---------------------------------|----------------|------------------|------------------|-----|-------------------|------------------|-------------------|
| Surprise Valley Electrification | 442            |                  |                  | -   |                   |                  | 442               |
| Tillamook PUD                   | 5,521          |                  |                  | -   |                   |                  | 5,521             |
| Umatilla Electric Co-op         | 17,210         | 174,639          |                  | Yes | 191,849           |                  | 191,849           |
| Umpqua Indian Utility Co-op     | 270            |                  |                  | -   |                   |                  | 270               |
| US DOE ARC                      | 60             |                  |                  | -   |                   |                  | 60                |
| Wasco Electric Co-op            | 1,263          |                  |                  | -   |                   |                  | 1,263             |
| West Oregon Electric Co-op      | 815            |                  |                  | -   |                   |                  | 815               |
| <b>Total</b>                    | <b>183,429</b> | <b>9,988,173</b> | <b>2,359,278</b> |     | <b>12,336,173</b> | <b>3,927,569</b> | <b>16,458,151</b> |

## Imported Fuel

Companies that own fuel as it is imported into Oregon, that is not subsequently stored at an Oregon terminal facility, or who own fuel as it is dispensed from a terminal in Oregon are required to annually report to DEQ the fuel type and total volume imported or dispensed for use in Oregon. The table below lists the anthropogenic emissions generated from the combustion of the total volume of fuel reported for all companies importing fuel resulting in over 25,000 MTCO<sub>2</sub>e. Anthropogenic emissions include all carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O) from fossil fuel combustion and the methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O) from biofuels such as ethanol and biodiesel.

### Emissions reported from fuel imported into Oregon (MTCO<sub>2</sub>e)

| Company Name                      | Anthropogenic emissions |
|-----------------------------------|-------------------------|
| Farmers Supply Cooperative        | 27,102                  |
| CHS INC. of Minnesota             | 27,305                  |
| Suburban Propane                  | 27,349                  |
| Eastern Aviation Fuels            | 28,434                  |
| American Energy                   | 33,842                  |
| A & B Enterprises, Inc.           | 34,694                  |
| Powell-Christensen Inc            | 35,191                  |
| Wilson Oil                        | 40,462                  |
| MIECO Inc.                        | 41,276                  |
| Musket Corporation                | 42,786                  |
| Pounder Oil Service, Inc.         | 44,475                  |
| Kiva energy                       | 45,258                  |
| Heller & Sons Dist Inc            | 49,541                  |
| Carson Oil Company, Inc.          | 56,028                  |
| Amerigas                          | 72,245                  |
| Sequential-Pacific Biodiesel, LLC | 72,848                  |
| Campo & Poole Distributing, LLC   | 76,057                  |
| Devin Oil Co., Inc.               | 76,996                  |
| Pilot Travel Centers, LLC         | 78,185                  |
| Valero Marketing and Supply Co.   | 83,215                  |
| Apex Oil Company, Inc.            | 84,257                  |
| Hattenhauer Distributing Company  | 85,642                  |
| The Jerry Brown Company, Inc      | 87,796                  |
| Ed Staub & Sons Petroleum, Inc.   | 93,685                  |
| Plains Midstream Canada (PMC)     | 97,162                  |
| Jacksons Food Stores, Inc.        | 97,529                  |
| PC Energy, LLC                    | 128,328                 |
| Associated Petroleum Products     | 129,559                 |
| Byrnes Oil Company, Inc.          | 131,675                 |
| McCall Oil & Chemical Corp        | 185,315                 |
| Space Age Fuel Inc.               | 1,721,864               |
| Chevron USA Inc.                  | 2,631,883               |

|                                                                         |                   |
|-------------------------------------------------------------------------|-------------------|
| Phillips 66 Company                                                     | 3,168,314         |
| Vitol Inc                                                               | 3,196,299         |
| Shell Oil Products US                                                   | 3,507,202         |
| Tesoro Refining and Marketing Company                                   | 3,928,745         |
| BP West Coast Products LLC                                              | 5,052,314         |
| <b>Total emissions from companies reporting over 25,000 MTCO2e</b>      | <b>25,320,857</b> |
| <b>Total emissions from all companies reporting under 25,000 MTCO2e</b> | <b>322,287</b>    |
| <b>Total emissions from all fuel reported in 2016</b>                   | <b>25,643,144</b> |

## Large Facilities

Facilities with air quality permits annually emitting over 2,500 MTCO2e are required to report the total GHG emissions from stationary combustion, industrial processes and fugitive emissions associated with their operations. The table below includes facilities listed by air permit ID reporting emissions from natural gas combustion and/or industrial processes that exceed the 25,000 MTCO2e threshold identified in SB 1070. This table does not include emissions from fuels that could potentially generate a compliance obligation by a fuel importer such as diesel fuel or CO2 emissions from biogenic fuels such as wood waste or biogas. It is important to note that:

- Emissions from electricity generated at facilities in Oregon exceeding the 25,000 MTCO2e threshold are included in the table below and would not be double-counted as a compliance obligation at the electric utility level.
- Emissions from natural gas at a large facility listed below would not generate a compliance obligation at the natural gas utility or supplier level. Thus, if facilities such as those listed below were to be regulated directly for their onsite natural gas use, the emissions listed below would be subtracted from the natural gas utilities' emissions listed in natural gas table listed in this document for purposes of regulation under a program described in SB 1070.
- DEQ requires that facilities reporting greenhouse gas emissions to the greenhouse gas reporting program utilize EPA's 40 CFR Part 98 quantification methodology. In some instances EPA methodology requires facilities to report natural gas combustion under an industrial process subpart. For purposes of this document, when possible, DEQ has categorized emissions from natural gas reported under an industrial subpart as natural gas combustion.

| Source ID | Company Name                           | County     | Emissions from natural gas combustion | Industrial process, landfill gas & coal combustion | Total Emissions Potentially Covered Under 1070 |
|-----------|----------------------------------------|------------|---------------------------------------|----------------------------------------------------|------------------------------------------------|
| 22-6024   | Entek International LLC                | Linn       | 25,798                                |                                                    | 25,798                                         |
| 23-0032   | EP Minerals, LLC                       | Malheur    | 27,185                                |                                                    | 27,185                                         |
| 26-2050   | Oregon Health Sciences University      | Multnomah  | 27,704                                |                                                    | 27,704                                         |
| 02-9520   | Valley Landfills, Inc.                 | Benton     |                                       | 28,366                                             | 28,366                                         |
| 25-0027   | ConAgra Foods Lamb Weston, Inc.        | Morrow     | 33,467                                |                                                    | 33,467                                         |
| 30-0075   | ConAgra Foods Lamb Weston, Inc.        | Umatilla   | 35,077                                |                                                    | 35,077                                         |
| 02-2298   | Oregon State University                | Benton     | 36,591                                |                                                    | 36,591                                         |
| 26-1876   | Owens-Brockway Glass Container Inc.    | Multnomah  | 30,639                                | 6,418                                              | 37,057                                         |
| 02-2173   | Hollingsworth & Vose Fiber Company     | Benton     | 35,679                                | 1,474                                              | 37,153                                         |
| 25-0006   | Pacific Ethanol Columbia, LLC          | Morrow     | 39,592                                |                                                    | 39,592                                         |
| 10-0025   | Roseburg Forest Products Co.           | Douglas    | 40,372                                |                                                    | 40,372                                         |
| 25-0002   | Oregon Potato Company                  | Morrow     | 43,275                                |                                                    | 43,275                                         |
| 25-0032   | ConAgra Foods Lamb Weston, Inc.        | Morrow     | 44,386                                |                                                    | 44,386                                         |
| 10-0031   | Douglas County Public Works Department | Douglas    |                                       | 47,692                                             | 47,692                                         |
| 23-0003   | Kraft Heinz Foods Company              | Malheur    | 49,192                                |                                                    | 49,192                                         |
| 05-1849   | Cascades Tissue Group-Oregon           | Columbia   | 49,340                                |                                                    | 49,340                                         |
| 34-0055   | Qorvo US                               | Washington | 2,896                                 | 47,166                                             | 50,062                                         |

| Source ID    | Company Name                                                            | County     | Emissions from natural gas combustion | Industrial process, landfill gas & coal combustion | Total Emissions Potentially Covered Under 1070 |
|--------------|-------------------------------------------------------------------------|------------|---------------------------------------|----------------------------------------------------|------------------------------------------------|
| 05-0005      | United States Gypsum Company                                            | Columbia   | 51,478                                |                                                    | 51,478                                         |
| 22-3501      | Cascade Pacific Pulp, LLC                                               | Linn       | 53,398                                |                                                    | 53,398                                         |
| 28-0007      | Gas Transmission Northwest LLC                                          | Sherman    | 55,973                                | 1,087                                              | 57,060                                         |
| 18-0072      | Gas Transmission Northwest LLC                                          | Klamath    | 58,231                                | 401                                                | 58,632                                         |
| 09-0040      | Deschutes County Dept. of Solid Waste                                   | Deschutes  |                                       | 61,991                                             | 61,991                                         |
| 09-0084      | Gas Transmission Northwest LLC                                          | Deschutes  | 62,609                                | 881                                                | 63,490                                         |
| 36-0011      | Riverbend Landfill Co.                                                  | Yamhill    |                                       | 63,974                                             | 63,974                                         |
| 36-5034      | Cascade Steel Rolling Mills, Inc.                                       | Yamhill    | 38,692                                | 26,921                                             | 65,613                                         |
| 25-0001      | Finley Buttes Landfill Company                                          | Morrow     |                                       | 67,576                                             | 67,576                                         |
| 15-0026      | Dry Creek Landfill, Inc.                                                | Jackson    |                                       | 69,300                                             | 69,300                                         |
| 24-5398      | Covanta Marion, Inc.                                                    | Marion     | 1,397                                 | 69,416                                             | 70,813                                         |
| 34-2813      | Jireh Semiconductor, Inc.                                               | Washington | 3,490                                 | 76,009                                             | 79,499                                         |
| 26-3310      | Metropolitan Service District                                           | Multnomah  |                                       | 79,599                                             | 79,599                                         |
| 26-3240      | Microchip Technology, Inc.                                              | Multnomah  | 9,403                                 | 77,234                                             | 86,637                                         |
| 05-2606      | Portland General Electric - Port Westward II                            | Columbia   | 86,921                                |                                                    | 86,921                                         |
| 26-1865      | EVRAZ Inc, NA                                                           | Multnomah  | 87,667                                |                                                    | 87,667                                         |
| 03-2145      | West Linn Paper Company                                                 | Clackamas  | 89,379                                |                                                    | 89,379                                         |
| 20-8850      | International Paper                                                     | Lane       | 94,818                                | 1,248                                              | 96,066                                         |
| 33-0007      | Wasco County Landfill, Inc.                                             | Wasco      |                                       | 108,308                                            | 108,308                                        |
| 26-0027      | SemiConductor Components Industries,                                    | Multnomah  | 7,780                                 | 100,938                                            | 108,718                                        |
| 26-9537      | Owens Corning Foam Insulation, LLC                                      | Multnomah  | 118                                   | 124,993                                            | 125,111                                        |
| 20-4740      | Short Mountain Landfill                                                 | Lane       |                                       | 151,778                                            | 151,778                                        |
| 11-0001      | Waste Management Disposal Services of Oregon, Inc.                      | Gilliam    |                                       | 171,513                                            | 171,513                                        |
| 05-2042      | Dyno Nobel Incorporated                                                 | Columbia   | 81,024                                | 110,970                                            | 191,994                                        |
| 04-0004      | Georgia-Pacific Consumer Products LP - Wauna Mill                       | Clatsop    | 196,104                               | 61,692                                             | 257,796                                        |
| 34-2681      | Intel Corporation                                                       | Washington | 67,833                                | 256,075                                            | 323,908                                        |
| 21-0005      | Georgia-Pacific Toledo LLC                                              | Lincoln    | 287,254                               | 47,760                                             | 335,014                                        |
| 01-0029      | Ash Grove Cement Company                                                | Baker      | 32                                    | 570,854                                            | 570,886                                        |
| 30-0113      | Hermiston Generating Company, L.P.                                      | Umatilla   | 794,209                               |                                                    | 794,209                                        |
| 05-2520      | Portland General Electric Company - Beaver & Port Westward I            | Columbia   | 1,122,266                             |                                                    | 1,122,266                                      |
| 18-0003      | Klamath Energy LLC                                                      | Klamath    | 1,026,850                             |                                                    | 1,026,850                                      |
| 25-0031      | Portland General Electric Company - Coyote Springs                      | Morrow     | 1,226,194                             |                                                    | 1,226,194                                      |
| 30-0118      | Hermiston Power LLC                                                     | Umatilla   | 1,252,103                             |                                                    | 1,252,103                                      |
| 25-0016      | Portland General Electric Company Boardman and Carty Generating Station | Morrow     | 541,858                               | *1,843,535                                         | 2,385,393                                      |
| <b>Total</b> |                                                                         |            | <b>7,818,274</b>                      | <b>4,275,168</b>                                   | <b>12,093,443</b>                              |

\*Reported emissions from coal combustion at PGE Boardman facility.

**Contact information** - Please contact Elizabeth Elbel in DEQ's mandatory greenhouse gas reporting program with questions on the tables in this document or for a description of reporting and emissions calculation methodology at 503-229-6476 or by email at [elbel.elizabeth@deq.state.or.us](mailto:elbel.elizabeth@deq.state.or.us)

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