

Global Climate Change Working Group

2005 Production & Related Emissions

November 28, 2006



Pacific Power | Rocky Mountain Power | PacifiCorp Energy

PacifiCorp Overview

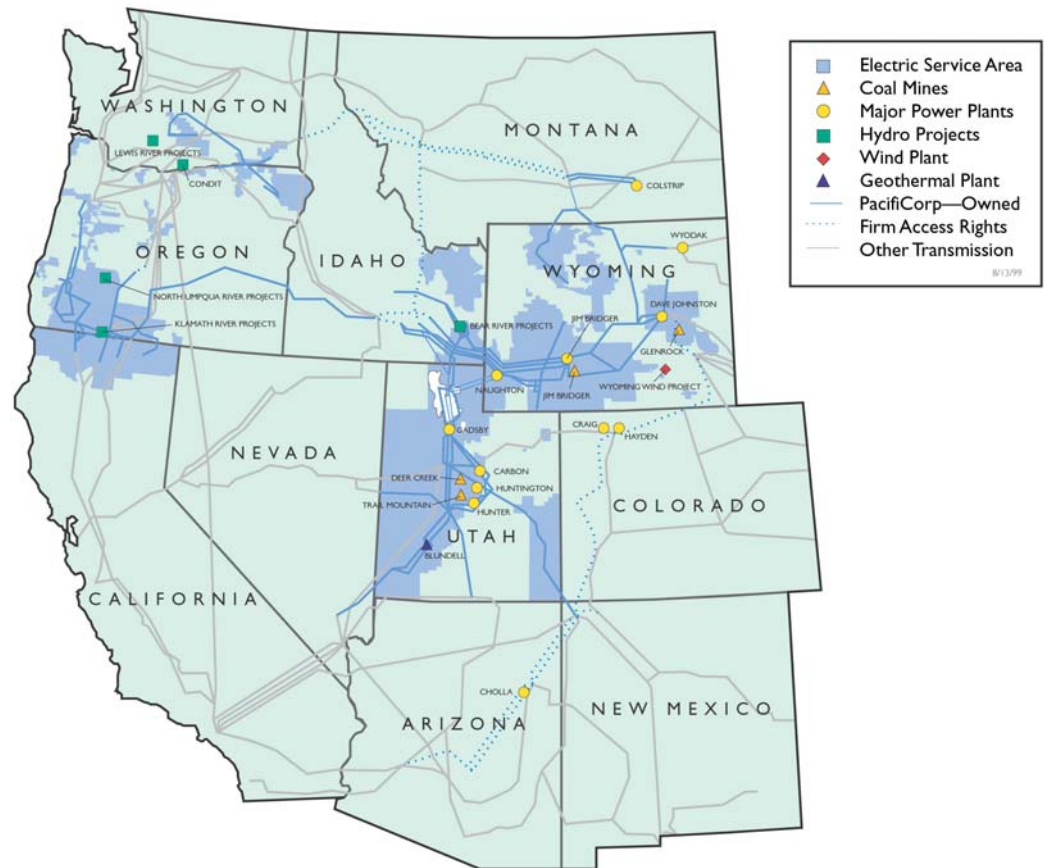
Service Area

Area Covered: 136,000 Square Miles
Utah, Oregon, Wyoming

States Served: Washington, Idaho and California

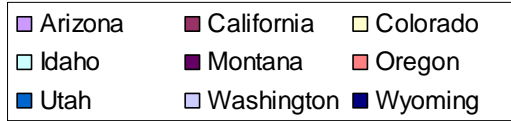
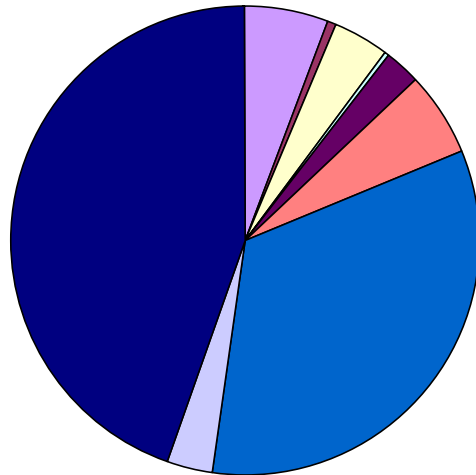
Customers by State

| | |
|---------------|------------------|
| Utah: | 722,525 |
| Oregon: | 527,408 |
| Wyoming: | 125,395 |
| Washington: | 122,010 |
| Idaho: | 63,702 |
| California: | 43,777 |
| Total: | 1,604,817 |

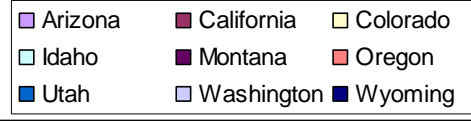
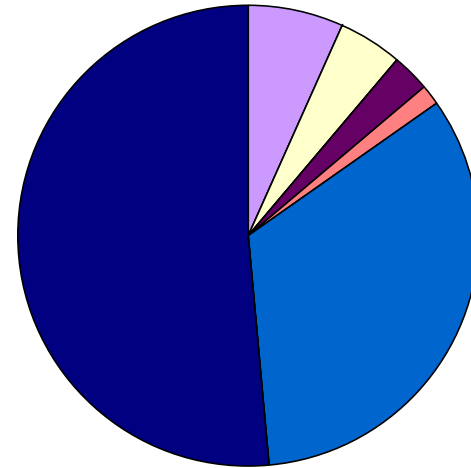


PacifiCorp Statistics (Based Upon Equity Interest)

**Geographic Distribution of Generation
(2005)**



**Geographic Distribution of Emissions
(2005)**



PacifiCorp Statistics (Based Upon Equity Interest)

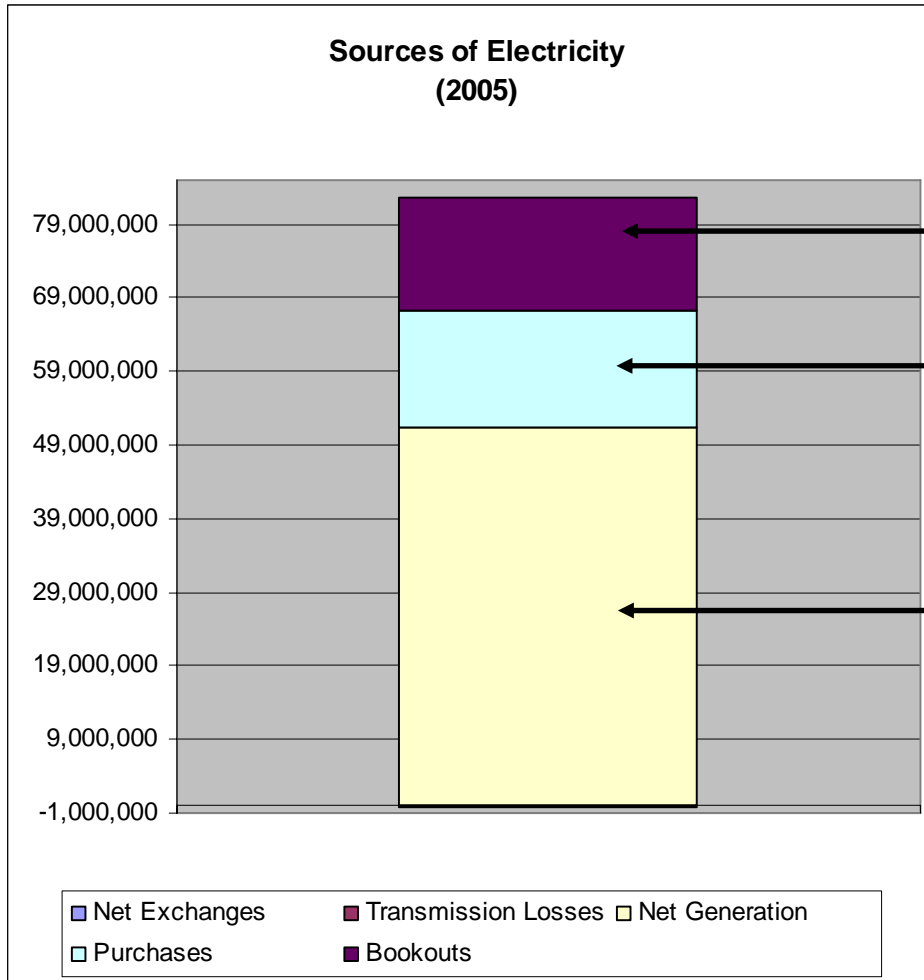
Direct Emissions/Megawatt-Hour Production, Based Upon Equity Interest

| Jurisdiction | Direct Emissions short ton/CO2 | MWH Net Generation | | | | | Total MWh |
|---------------------|--------------------------------|--------------------|------------------|----------------|----------------|-------------|-------------------|
| | | Fossil | Large Hydro | Geothermal | Wind | Nuclear | |
| Arizona | 3,406,571 | 2,969,570 | 0 | 0 | 0 | 0 | 2,969,570 |
| California | 0 | 0 | 294,589 | 0 | 0 | 0 | 294,589 |
| Colorado | 2,401,331 | 2,026,046 | 0 | 0 | 0 | 0 | 2,026,046 |
| Idaho | 0 | 0 | 148,399 | 0 | 0 | 0 | 148,399 |
| Montana | 1,356,120 | 1,180,949 | 30,861 | 0 | 0 | 0 | 1,211,810 |
| Oregon | 792,984 | 1,857,143 | 1,197,442 | 0 | 0 | -137 | 3,054,448 |
| Utah | 17,294,276 | 16,737,284 | 205,289 | 184,820 | 0 | 0 | 17,127,393 |
| Washington | 0 | 174,690 | 1,394,938 | 0 | 0 | 0 | 1,569,628 |
| Wyoming | 26,716,751 | 22,904,006 | 806 | 0 | 104,394 | 0 | 23,009,206 |
| Total System | 51,968,031 | 47,849,688 | 3,272,324 | 184,820 | 104,394 | -137 | 51,411,089 |

PacifiCorp Statistics (Based Upon Equity Interest)

| Jurisdiction | Emissions Intensity lbs/net MWH |
|---------------------|------------------------------------|
| Arizona | 2,294 |
| California | 0 |
| Colorado | 2,370 |
| Idaho | 0 |
| Montana | 2,238 |
| Oregon | 519 |
| Utah | 2,019 |
| Washington | 0 |
| Wyoming | 2,322 |
| Total System | 2,022 |

PacifiCorp Statistics



“Bookouts”: were 15,328,077 megawatt-hours

Purchased Power:
 est. 1,129 lbs/MWh
 31,172,017 MWh
 est. 17,598,686 short tons

PacifiCorp Self-Generated Power:
 2,022 lbs/MWh
 51,411,089 MWh
 51,968,031 short tons

PacifiCorp Purchases & Indirect Emissions

Figure 8.1: eGRID Subregions

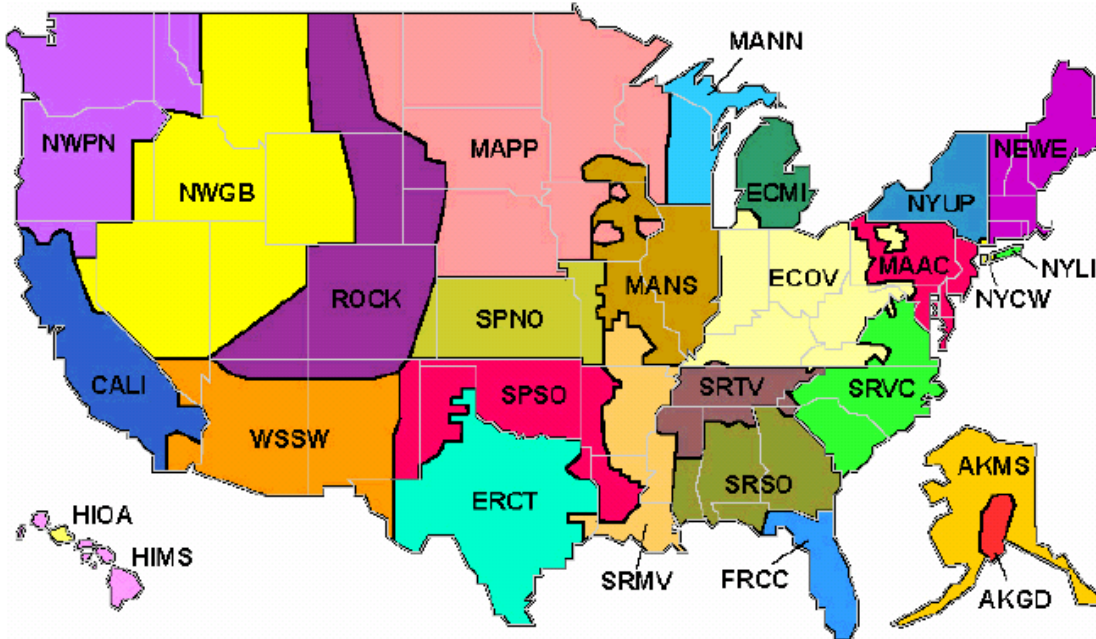


Table 8.2 eGRID Subregion Annual Average CO₂ Output-Based Emission Rates (Year 2000 - Total Energy)

| eGRID Subregion Name | eGRID Subregion Acronym | CO ₂ Output Emission Rate (lbs/MWh) |
|------------------------|-------------------------|--|
| WECC California | CALI | 804.54 |
| WECC Great Basin | NWGB | 852.31 |
| WECC Pacific Northwest | NWPN | 671.04 |
| WECC Rockies | ROCK | 1872.51 |
| WECC Southwest | WSSW | 1423.95 |

eGRID2002 Version 2.01 Location (Operator)-Based eGRID Subregion File (Year 2000 Data)

PacifiCorp Statistics (System Indirect Emissions)

| Transmission & Distribution System Related Losses | | | | | |
|---|---------------------------------|---|---------------------|---------------------------------|---|
| Electricity Purchases | | | Electricity Wheeled | | |
| | Indirect Emissions tonne/CO2 | Indirect Emissions short ton/CO2e | | Indirect Emissions tonne/CO2 | Indirect Emissions short ton/CO2e |
| System | 480,557 | 529,723 | System | 179,213 | 197,548 |

- Calculate a T&D loss factor (Total Energy Losses divided by Total Electric Energy)
- Multiply T&D loss factor against Total Purchases (Electricity purchases)
- Multiply T&D loss factor against Transmission for Others (Electricity Wheeled)
- Multiply Megawatts Against Weighted Emission Factor for Each Type (2005 data: 1,129 lbs/MWh for electricity purchases and 1,215 lbs/MWh for electricity wheeled)

PacifiCorp Statistics (System Indirect Emissions)

| Company Electricity Consumption (2005) | | |
|---|--|--|
| Jurisdiction | Indirect Emissions tonne/CO2e | Indirect Emissions short ton/CO2e |
| California | 495 | 546 |
| Idaho | 942 | 1,039 |
| Oregon | 6,425 | 7,082 |
| Utah | 26,044 | 28,709 |
| Washington | 613 | 675 |
| | 37,610 | 41,458 |

PacifiCorp Statistics (SF6 Direct Emissions)

| SF6 Fugitive Emissions (2005) | | | |
|--|-----------------|-----------------------|-------------------|
| System | lbs. SF6 | short ton CO2e | tonne CO2e |
| Pacific Power | 3,913 | 43,434 | 39,403 |
| Rocky Mtn. | 24,977 | 277,245 | 251,512 |

Next Steps

- The 2005 emissions and production data will be certified by an independent third party.
- Once certified, the data will be posted to the public section of the CCAR website.

Questions

Kyle L. Davis

kyle.l.davis@pacificorp.com or

(503) 813-6601