

2023 Mean <b>Carbon Intensity</b> (gCO2eq/kWh) and <b>Power Consumption</b> Breakdown (%)													
Zone	CO2 Intensity	Hydro	Nuclear	Wind	Solar	Geothermal	Biomass	Gas	Coal	Oil	Unknown	Hydro Discharge	Battery Discharge
Sweden	23	43.5%	29.2%	21.4%	0.9%	0.0%	0.2%	0.2%	0.2%	0.0%	4.4%	0.0%	0.0%
Iceland	28	72.4%	0.0%	0.0%	0.0%	27.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Quebec	31	91.5%	0.9%	4.7%	0.0%	0.0%	2.5%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%
France	53	10.5%	64.2%	10.5%	4.8%	0.0%	1.4%	6.6%	0.5%	0.3%	0.1%	1.1%	0.0%
Ontario	73	26.0%	51.9%	8.0%	0.5%	0.0%	0.2%	13.4%	0.0%	0.0%	0.0%	0.0%	0.0%
Finland	87	24.6%	40.9%	18.6%	0.8%	0.0%	6.6%	2.2%	5.2%	0.0%	1.1%	0.0%	0.0%
Tasmania	92	66.3%	0.0%	19.2%	5.8%	0.0%	0.0%	0.6%	8.1%	0.0%	0.0%	0.0%	0.0%
New Zealand	95	62.8%	0.0%	7.4%	0.0%	18.2%	0.0%	6.1%	3.6%	0.0%	2.0%	0.0%	0.0%
Belgium	140	1.4%	42.0%	19.8%	9.8%	0.0%	3.3%	18.7%	1.5%	0.1%	2.1%	1.4%	0.0%
West Denmark	143	18.1%	4.1%	46.8%	8.1%	0.0%	7.5%	5.9%	8.2%	0.4%	0.6%	0.3%	0.0%
East Denmark	148	13.1%	10.5%	40.7%	6.5%	0.0%	14.4%	4.2%	7.2%	1.2%	2.2%	0.1%	0.0%
Spain	154	10.0%	22.7%	23.8%	15.0%	0.0%	2.1%	21.8%	1.6%	0.2%	0.3%	2.5%	0.0%
South Australia	186	1.0%	0.0%	45.0%	24.5%	0.0%	0.0%	21.8%	7.0%	0.1%	0.0%	0.0%	0.5%
Great Britain	200	4.6%	18.1%	30.2%	6.0%	0.0%	5.1%	33.2%	1.2%	0.0%	1.0%	0.6%	0.0%
California	258	12.4%	10.0%	9.6%	17.1%	3.1%	1.7%	42.0%	1.2%	0.0%	0.9%	0.0%	1.9%
Netherlands	273	3.0%	4.9%	31.6%	16.8%	0.0%	5.0%	27.7%	9.0%	0.8%	1.1%	0.2%	0.0%
New York ISO	280	22.6%	22.7%	3.9%	0.1%	0.0%	0.1%	48.3%	0.6%	0.0%	1.8%	0.0%	0.0%
Italy (North)	307	24.5%	11.9%	2.9%	6.9%	0.3%	2.2%	37.0%	2.6%	0.2%	8.7%	2.8%	0.0%
Texas	383	0.1%	9.1%	25.2%	7.2%	0.0%	0.0%	44.4%	13.8%	0.0%	0.3%	0.0%	0.0%
Germany	397	5.9%	4.3%	29.1%	11.7%	0.0%	9.6%	11.3%	24.5%	0.5%	0.7%	2.3%	0.0%

**Source:** [api.electricitymap.org](https://api.electricitymap.org) | **Methodology:** <https://www.electricitymaps.com/methodology>. Some emissions factors are based on IPCC 2014 defaults, while some are based on more accurate regional factors.

All zones are publicly available on the *Carbon intensity and emission factors* tab via Google docs link

2023 Mean <b>Carbon Intensity</b> (gCO <sub>2</sub> eq/kWh) and <b>Power Consumption</b> Breakdown (%)													
Western Australia	433	0.0%	0.0%	15.5%	19.1%	0.0%	0.4%	35.1%	29.7%	0.0%	0.0%	0.0%	0.1%
Alberta	439	2.9%	0.0%	11.4%	2.7%	0.0%	2.6%	67.5%	8.1%	0.0%	4.6%	0.0%	0.0%
Victoria	506	6.2%	0.0%	20.6%	12.7%	0.0%	0.0%	1.4%	58.8%	0.0%	0.0%	0.0%	0.2%
New South Wales	556	4.9%	0.0%	9.2%	19.6%	0.0%	0.1%	2.2%	64.0%	0.0%	0.0%	0.0%	0.1%
India (North)	558	21.2%	2.2%	1.5%	7.7%	0.0%	0.0%	1.9%	64.3%	0.0%	1.2%	0.0%	0.0%
Queensland	607	2.1%	0.0%	4.0%	19.8%	0.0%	0.2%	6.7%	67.1%	0.0%	0.0%	0.0%	0.1%
South Africa	701	0.9%	4.2%	5.7%	3.2%	0.0%	0.0%	0.0%	80.9%	2.6%	0.1%	2.3%	0.0%

**Source:** [api.electricitymap.org](https://api.electricitymap.org) | **Methodology:** <https://www.electricitymaps.com/methodology>. Some emissions factors are based on IPCC 2014 defaults, while some are based on more accurate regional factors.

All zones are publicly available on the *Carbon intensity and emission factors* tab via Google docs link