

Canadian Emission Factors for Grid Electricity

	Canada	Alberta	British Columbia	Manitoba	New Brunswick	Newfoundland and Labrador	Northwest Territories	Nova Scotia	Nunavut	Ontario	Prince Edward Island	Quebec	Saskatchewan	Yukon
Total Greenhouse Gas Emissions (kt CO₂ e)	79,200	46,500	574	70	3,980	1,530	64	6,460	143	2,530	9	243	17,000	24
Total Electricity Generation (GWh)	586,000	61,500	61,500	37,100	12,700	38,000	357	9,650	190	148,000	604	191,000	25,100	485
Greenhouse Gas Intensity (g GHG/kWh electricity generated)														
CO ₂ intensity (g CO ₂ /kWh)	130.0	750.0	9.0	1.9	310.0	40.0	170.0	670.0	720.0	17.0	14.0	1.2	650.0	48.0
CH ₄ intensity (g CH ₄ /kWh)	0.0100	0.0400	0.0030	0.0001	0.0200	0.0006	0.0100	0.0300	-	-	0.0005	-	0.0500	0.0040
N ₂ O intensity (g N ₂ O/kWh)	0.0030	0.0100	0.0007	0.0001	0.0040	0.0010	0.0200	0.0100	-	0.0010	0.0002	0.0001	0.0200	0.0100
Generation intensity (g CO₂e/kWh)	130.0	750.0	9.3	1.9	310.0	40.0	180.0	670.0	750.0	17.0	14.0	1.3	660.0	50.0
Unallocated Energy (GWh)	21,000	3,500	100	3,600	520	90	7	600	8	14,000	220	12,000	1,900	49
SF ₆ Emissions (kt CO ₂ e)	140	1	19	2	2	2	-	40	-	56	-	22	1	-
Consumption intensity (g CO₂e/kWh)	140	800	10	2	330	40	180	720	790	20	*	2	710	57

As per National Inventory Report 1990-2017 Greenhouse Gas Sources and Sinks, Environment and Climate Change Canada at <http://www.ec.gc.ca/ges-ghg/>

Summary of Conversions and Equivalent Measurements

1 kt = 1,000 tonnes
 1 GWh = 1,000 MWh = 1,000,000 kWh
 CH₄ = methane; CH₄ to CO₂e: 1 tonne = 25 tonnes
 N₂O = Nitrous Oxide; N₂O to CO₂e: 1 tonne = 298 tonnes
 SF₆ = Sulfur Hexafluoride; SF₆ to CO₂e: 1 tonne = 22,800 tonnes

* - Due to the high level of imports from New Brunswick, values for new Brunswick are more indicative of GHG consumption intensity