

CO2 Emissions by Source in 2015

If not otherwise indicated, data from: data/raw/electricity/electricity_fuel_2015.csv

Fuel	Amount	Amt. Unit	Density [kg/m ³]	Density Source	Mass [kg]	Percentage
subbituminous coal	24479385	t			24.48E+09	48.74%
natural gas	10870993	Ml	0.9	http://www.	9.78E+09	19.48%
lignite	8846528	t			8.85E+09	17.61%
bituminous coal	2897518	t			2.90E+09	5.77%
wood	2680909	t			2.68E+09	5.34%
heavy fuel oil	698003	kl	930	http://www.	649.14E+06	1.29%
petroleum coke	577519	t			577.52E+06	1.15%
diesel	155734	kl	874.6081	http://www.	136.21E+06	0.27%
methane	182914	Ml	0.717	http://www.	131.15E+06	0.26%
light fuel oil	57115	kl	719.229	http://www.	41.08E+06	0.08%
propane	58	kl	1.7	http://www.	98.60E+00	0.00%

Emissioni di CO2

CO2 coeff	CO2 coeff unit	CO2 coeff source	CO2 coeff [kg/MJ]	Heat of combustion	Heat of combustion unit	Heat of combustion source	Heat of combustion [MJ/kg]	CO2 coeff [kg/kg]
93.3	kg/Mbtu	https://w	88.43E-03	31.3	MJ/kg	http://www.	31.30	2.77
53.07	kg/Mbtu	https://w	50.30E-03	47.7	MJ/kg	http://www.	47.70	2.40
97.7	kg/Mbtu	https://w	92.60E-03	22	MJ/kg	http://www.	22.00	2.04
93.3	kg/Mbtu	https://w	88.43E-03	31.3	MJ/kg	http://www.	31.30	2.77
0.39	kg/kWh	http://ww	108.33E-03	15	MJ/kg	http://www.	15.00	1.63
73.16	kg/Mbtu	https://w	69.34E-03	41	MJ/kg	http://www.	41.00	2.84
102.1	kg/Mbtu	https://w	96.77E-03	34.2	MJ/kg	http://www.	34.20	3.31
3.2	kg/kg	http://ww				http://www.		3.20
2.8	kg/kg	http://ww				http://www.		2.80
2.6	kg/kg	http://ww				http://www.		2.60
63.07	kg/Mbtu	https://w	59.78E-03	46.3	MJ/m3	http://www.	1.63	2.77

Emissioni di CO2

CO2 mass [t]

67.76E+09
23.47E+06
18.02E+06
8.02E+06
4.36E+06
1.85E+06
1.91E+06
435.86E+03
367.22E+03
106.80E+03
272.90E-03

Abitazioni

Popolazione del canada: 36.29E+06

Tipo di consumo	Consumo [GJ]	Numero di abitazioni	Coeff C02 [kg/GJ]	Massa C02 [kg]	Massa C02 per abitazione [kg]
electricity	607.03E+06	13955593	81.18E-06	49.28E+03	3.53E-03
natural gas	687.81E+06	7256255	50.30E-03	34.60E+06	4.77E+00
heating oil	65.69E+06	913782	69.34E-03	4.55E+06	4.98E+00
<i>totale</i>	<i>1.36E+09</i>	<i>13955593</i>		<i>39.20E+06</i>	<i>9.76E+00</i>

**Massa CO2
per persona
[kg]**

1.36E-03
953.44E-03
125.53E-03

1.08E+00

Emissioni di CO2 da combustibili fossili utili

**QUESTA TABELLA CONTIENE VALORI INCORRETTI E NON DEVE ESSERE UTILIZZATA
COME RIFERIMENTO NEL PDI, VEDI LA SECONDA VERSIONE CORRETTA**

Materiali	Densita` [kg/m3]	Sorgente Densita`	Massa	Massa [t]	Percentual e
Imported heavy fuel oil (kilolitres)	930	http://www	387993	360.83E+06	35.84%
Canadian heavy fuel oil (kilolitres)	930	http://www	310010	288.31E+06	28.63%
Diesel (kilolitres)	874.6081	http://www	155734	136.21E+06	13.53%
Methane (cubic metres x 1,000)	0.717	http://www	182914	131.15E+06	13.03%
Light fuel oil (kilolitres)	719.229	http://www	57115	41.08E+06	4.08%
Canadian subbituminous coal (metric tonnes)			24324860	24.32E+06	2.42%
Natural gas (cubic metres x 1,000)	0.9	http://www	10870993	9.78E+06	0.97%
Lignite (metric tonnes)			8846528	8.85E+06	0.88%
Wood (metric tonnes)			2680909	2.68E+06	0.27%
Imported bituminous coal (metric tonnes)			2438106	2.44E+06	0.24%
Petroleum coke (metric tonnes)			577519	577.52E+03	0.06%
Canadian bituminous coal (metric tonnes)			459412	459.41E+03	0.05%
Imported subbituminous coal (metric tonnes)			154525	154.53E+03	0.02%
Propane (kilolitres)	1.7	http://www	58	98.60E+00	0.00%
Other gaseous fuels (cubic metres x 1,000)			170733		
Other solid fuels (metric tonnes)			92423		
Uranium (kilograms)			1596061		

Lizzati per la produzione di elettricità nel 2

CO2 Coeff	Unità` Coeff	Sorgente Coeff	CO2 Coeff [kg/MJ]	Potere Calorico	Unità` Potere Calorico	Sorgente Potere Calorico	CO2 Coeff [kg/kg]
73.16	kg/Mbtu	https://www	69.34E-03	41 MJ/kg		http://www.i	2.84E+00
73.16	kg/Mbtu	https://www	69.34E-03	41 MJ/kg		http://www.i	2.84E+00
3.2	kg/kg	http://www.engineeringtoolbox.com/co2-emission-fuel				http://www.i	3.20E+00
2.8	kg/kg	http://www.engineeringtoolbox.com/co2-emission-fuel				http://www.i	2.80E+00
2.6	kg/kg	http://www.engineeringtoolbox.com/co2-emission-fuel				http://www.i	2.60E+00
93.3	kg/Mbtu	https://www	88.43E-03	31.3 MJ/kg		http://www.i	2.77E+00
53.07	kg/Mbtu	https://www	50.30E-03	47.7 MJ/kg		http://www.i	2.40E+00
97.7	kg/Mbtu	https://www	92.60E-03	22 MJ/kg		http://www.i	2.04E+00
0.39	kg/kWh	http://www	108.33E-03	15 MJ/kg		http://www.i	1.63E+00
93.3	kg/Mbtu	https://www	88.43E-03	31.3 MJ/kg		http://www.i	2.77E+00
102.1	kg/Mbtu	https://www	96.77E-03	34.2 MJ/kg		http://www.i	3.31E+00
93.3	kg/Mbtu	https://www	88.43E-03	31.3 MJ/kg		http://www.i	2.77E+00
2.3	kg/kg	http://www.engineeringtoolbox.com/co2-emission-fuel				http://www.i	2.30E+00
63.07	kg/Mbtu	https://www	59.78E-03	46.3 MJ/m3		http://www.i	2.77E+00

015

Massa CO2 [kg]	Totale
1.03E+12	Massa CO2
819.67E+09	2.88E+12 kg
435.86E+09	
367.22E+09	Volume CO2
106.80E+09	1843077984 m3
67.33E+09	
23.47E+09	Massa Combustibili
18.02E+09	1.01E+09 t
4.36E+09	
6.75E+09	Coefficiente Medio CO2 [kg/kg]
1.91E+09	2.77E+00
1.27E+09	
355.41E+06	
272.90E+03	