



THE ENERGY WORLD



ELECTRICITY

Worldwide electricity access: 90% (2019 est.)

- **Urban areas:** 96% (2019 est.)
- **Rural areas:** 85% (2019 est.)

Largest installed generating capacities (in kW) (2020 est.)

1.	China	2.22 billion
2.	US	1.14 billion
3.	India	432.77 million
4.	Japan	348.67 million
5.	Russia	276.46 million
6.	Germany	248.27 million
7.	Brazil	195.04 million
8.	Canada	153.25 million
9.	France	138.61 million
10.	South Korea	135.79 million

Highest electricity consumers (in kWh) (2020 est.)

1.	China	6.88 trillion
2.	US	3.90 trillion
3.	India	1.23 trillion
4.	Russia	942.90 billion
5.	Japan	903.70 billion

Largest electricity exporters (in kWh) (2020 est.)

1.	Canada	67.20 billion
2.	Germany	66.93 billion
3.	France	64.43 billion
4.	Sweden	36.82 billion
5.	Switzerland	32.55 billion

Largest electricity importers (in kWh) (2020 est.)

1.	US	61.45 billion
2.	Germany	48.05 billion
3.	Italy	39.79 billion
4.	Thailand	29.55 billion
5.	Switzerland	26.99 billion

ENERGY CONSUMPTION

Highest energy consumption per capita (in Btu/person) (2019 est.)

1.	Qatar	723.58 million
2.	Singapore	639.95 million
3.	Bahrain	547.98 million
4.	United Arab Emirates	471.79 million
5.	Brunei	415.18 million
6.	Canada	403.70 million
7.	Kuwait	381.99 million
8.	Norway	333.83 million
9.	Turkmenistan	330.51 million
10.	Luxembourg	310.07 million
11.	US	304.41 million
12.	Saudi Arabia	296.95 million
13.	Oman	292.02 million
14.	Malta	267.74 million
15.	South Korea	242.35 million

CARBON DIOXIDE EMISSIONS

Worldwide CO₂ emissions: 35.55 billion metric tonnes (2019 est.)

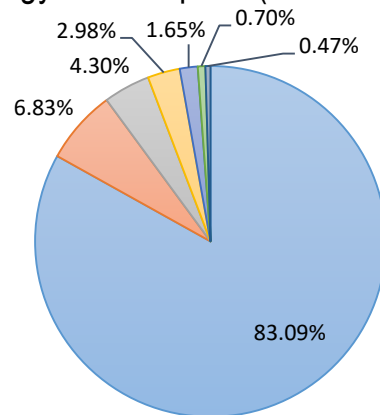
Highest CO₂ emitters (in metric tonnes) (2019 est.)

1.	China	10.77 billion
2.	US	5.14 billion
3.	India	2.31 billion
4.	Russia	1.85 billion
5.	Japan	1.10 billion
6.	Germany	726.88 million
7.	South Korea	686.95 million
8.	Iran	646.04 million
9.	Canada	612.08 million
10.	Saudi Arabia	579.93 million
11.	Indonesia	563.54 million
12.	South Africa	470.36 million
13.	Mexico	463.74 million
14.	Brazil	456.67 million
15.	Australia	417.87 million

Percent of CO₂ emissions from top 15 emitters: 75.4%

GLOBAL ENERGY CONSUMPTION PORTFOLIO (2021 EST.)

Energy Consumption (in billion kWh)



- Fossil Fuels
- Hydroelectricity
- Nuclear
- Wind
- Solar
- Biofuels
- Other

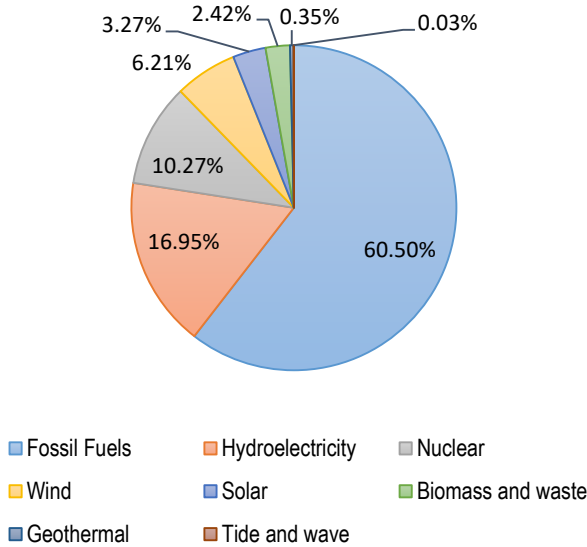


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GLOBAL ELECTRICITY GENERATION PORTFOLIO (2020 EST.)

Electricity Generation (in billion kWh)



COAL

Largest proven coal reserves (in metric tons) (2019 est.)

1.	US	228.66 billion
2.	Russia	162.17 billion
3.	Australia	149.08 billion
4.	China	141.60 billion
5.	India	105.93 billion
6.	Indonesia	39.89 billion
7.	Germany	35.90 billion
8.	Ukraine	34.38 billion
9.	Poland	26.93 billion
10.	Kazakhstan	25.61 billion

Highest coal consumers (in metric tons) (2020 est.)

1.	China	4.51 billion
2.	India	883.98 million
3.	US	441.97 million
4.	Russia	266.04 million
5.	Japan	210.88 million

Largest coal exporters (in metric tons) (2020 est.)

1.	Indonesia	409.89 million
2.	Australia	390.81 million
3.	Russia	224.32 million
4.	South Africa	74.97 million
5.	Colombia	69.86 million

Largest coal importers (in metric tons) (2020 est.)

1.	China	307.05 million
2.	India	219.21 million
3.	Japan	174.49 million
4.	South Korea	123.78 million
5.	Taiwan	63.52 million

PETROLEUM

Largest proven crude oil reserves (in barrels) (2021 est.)

1.	Venezuela	303.81 billion
2.	Saudi Arabia	258.60 billion
3.	Iran	208.60 billion
4.	Canada	170.30 billion
5.	Iraq	145.02 billion
6.	Kuwait	101.50 billion
7.	United Arab Emirates	97.80 billion
8.	Russia	80.00 billion
9.	Libya	48.36 billion
10.	US	47.11 billion

Highest refined petroleum consumers (in barrels/day) (2020 est.)

1.	US	20.54 million
2.	China	14.01 million
3.	India	4.92 million
4.	Japan	3.74 million
5.	Russia	3.70 million

Largest crude oil exporters (in barrels/day) (2019 est.)

1.	Saudi Arabia	7.34 million
2.	Russia	5.20 million
3.	Iraq	3.98 million
4.	Canada	3.18 million
5.	United Arab Emirates	2.43 million

Largest crude oil importers (in barrels/day) (2018 est.)

1.	China	9.24 million
2.	US	7.77 million
3.	India	4.53 million
4.	South Korea	3.03 million
5.	Japan	3.01 million

NATURAL GAS

Largest proven natural gas reserves (in m³) (2021 est.)

1.	Russia	47.81 trillion
2.	Iran	33.99 trillion
3.	Qatar	23.86 trillion
4.	US	13.18 trillion
5.	Turkmenistan	11.33 trillion
6.	Saudi Arabia	9.42 trillion
7.	China	6.65 trillion
8.	United Arab Emirates	6.09 trillion
9.	Nigeria	5.76 trillion
10.	Venezuela	5.67 trillion

Highest natural gas consumers (in m³) (2021 est.)

1.	US	857.54 billion
2.	Russia	460.61 billion
3.	China	306.58 billion
4.	Iran	220.70 billion
5.	Canada	124.50 billion

Largest natural gas exporters (in m³) (2021 est.)

1.	Russia	250.85 billion
2.	US	188.40 billion
3.	Qatar	126.75 billion
4.	Norway	107.34 billion
5.	Australia	101.77 billion

Largest natural gas importers (in m³) (2020 est.)

1.	China	131.61 billion
2.	Japan	105.26 billion
3.	Germany	83.12 billion
4.	US	79.51 billion
5.	Italy	70.91 billion