

CLEAN ELECTRICITY AROUND THE WORLD

Concerns over climate change are causing policymakers to reconsider the mix of energy sources used to generate electricity—specifically coal, oil, and natural gas, which together fuel 64 percent of global power. Non-carbon energy sources are getting a lot of attention, particularly wind and solar power. But not every renewable energy source is equally suited to a country.

According to data collected by the U.S. Energy Information Administration, of the 25,398 TWh of electric power generation in 2018 (the most recent year where all countries reported), some 9,250 TWh were from non-carbon sources. The two largest energy sources were hydroelectricity and nuclear

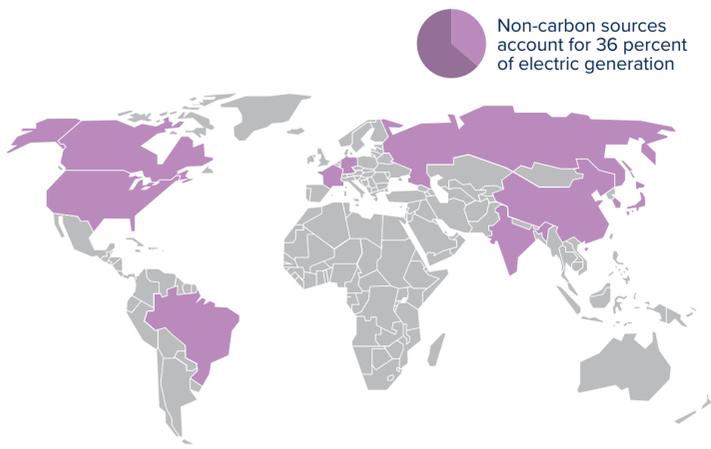
power, followed by wind, biomass, and solar. For the most part, the largest countries produced the most non-carbon electricity (and the most electricity overall) but Norway is notable for its hydroelectricity production and Italy uses solar power at a rate four times greater than the global average.

Electric Generation Around the World

Total Electric Generation

World	25,398 TWh
China	6,801.9 TWh
United States	4,207.8 TWh
India	1,550.9 TWh
Russia	1,044.9 TWh
Japan	984.8 TWh
Canada	637.1 TWh
Germany	608.6 TWh
Brazil	591.6 TWh
South Korea	552.8 TWh
France	551.2 TWh

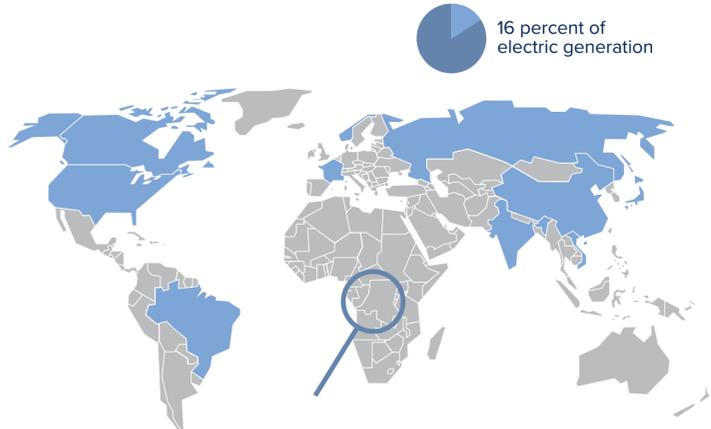
Top 10 make up 69 percent of world total



Hydro Power

World	4,145 TWh
China	1,187.2 TWh
Brazil	385.1 TWh
Canada	382.0 TWh
United States	292.5 TWh
Russia	189.2 TWh
Norway	138.2 TWh
India	133.6 TWh
Vietnam	83.3 TWh
Japan	80.6 TWh
France	64.5 TWh

Top 10 make up 71 percent of world total

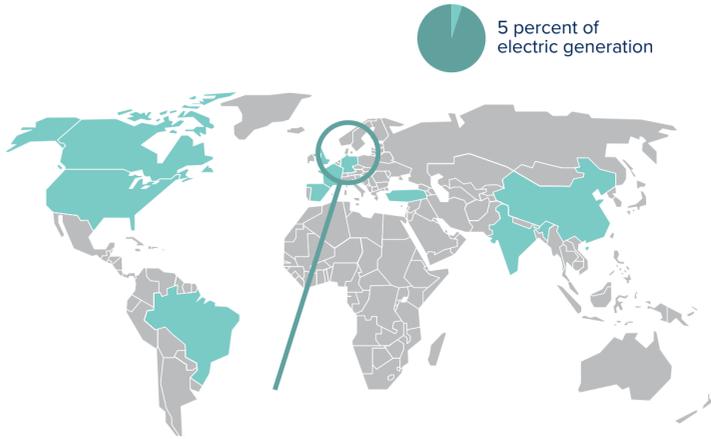


12 countries, including the Central African Republic, are more than 90 percent hydroelectric

Wind Power

World	1,265 TWh
China	365.8 TWh
United States	272.7 TWh
Germany	107.9 TWh
India	64.3 TWh
United Kingdom	56.9 TWh
Spain	49.7 TWh
Brazil	48.5 TWh
Canada	32.9 TWh
France	28.6 TWh
Turkey	19.8 TWh

Top 10 make up 83 percent of world total

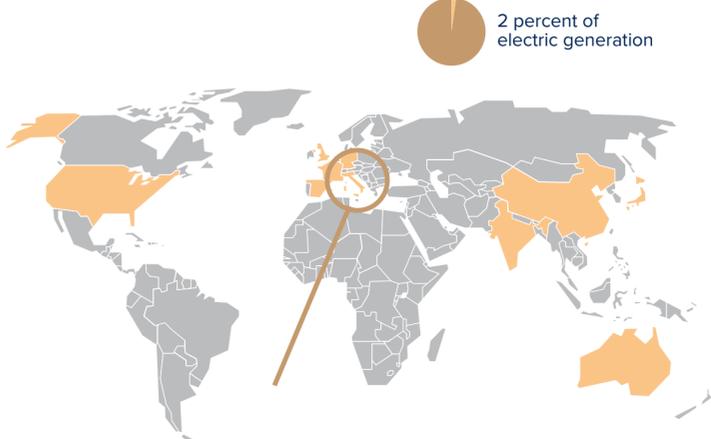


47 percent of Denmark's electric production comes from wind power

Solar Power

World	575 TWh
China	177.2 TWh
United States	93.4 TWh
Japan	63.7 TWh
Germany	45.8 TWh
India	39.7 TWh
Italy	22.3 TWh
United Kingdom	12.9 TWh
Spain	12.2 TWh
France	10.6 TWh
Australia	9.9 TWh

Top 10 make up 85 percent of world total

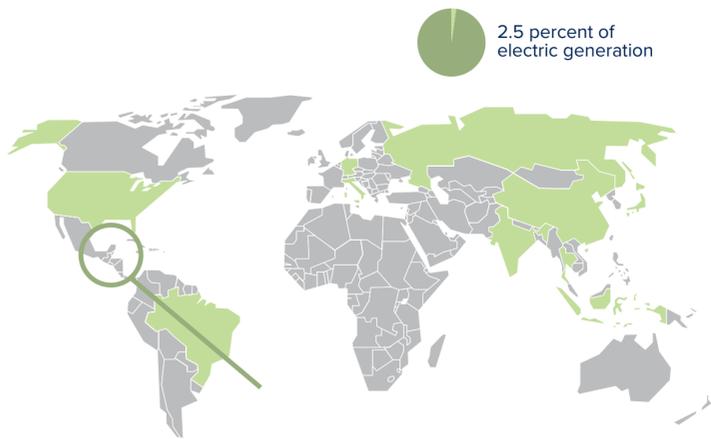


8 percent of Italy's electric production comes from solar power

Waste/Biomass

World	638 TWh
China	104.0 TWh
United States	74.8 TWh
Germany	57.9 TWh
Brazil	53.9 TWh
India	45.4 TWh
Japan	44.2 TWh
United Kingdom	40.4 TWh
Italy	21.6 TWh
Thailand	16.3 TWh
Indonesia	13.5 TWh

Top 10 make up 74 percent of world total

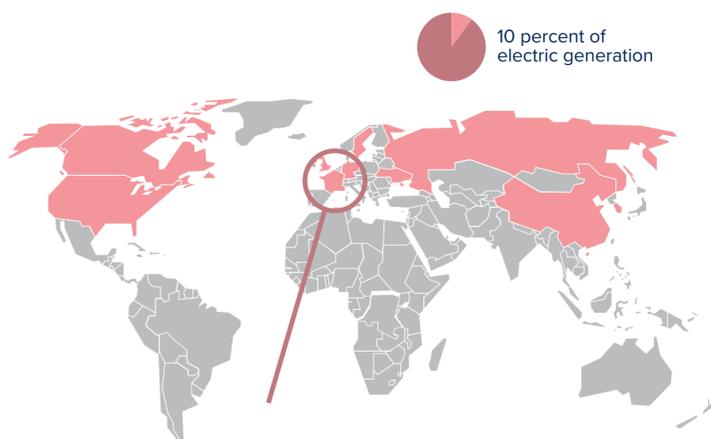


34 percent of Belize's electric production comes from waste or biomass

Nuclear Power

World	2,544 TWh
United States	807.1 TWh
France	393.2 TWh
China	272.2 TWh
Russia	181.8 TWh
South Korea	127.1 TWh
Canada	95.0 TWh
Ukraine	80.2 TWh
Germany	71.9 TWh
Sweden	63.8 TWh
United Kingdom	59.1 TWh

Top 10 make up 85 percent of world total



71 percent of France's electric production comes from nuclear power

By Jeffrey Winters