

Global Hydropower Generation

Hydroelectric dam production is highly dependent on rainfall conditions, which influence storage in reservoirs and the flow of major rivers. Production in 2022 rose slightly worldwide, after declining between 2020 and 2021. The drought in Europe has significantly reduced production in most countries.

Global Hydropower Production (in terawatt-hours – TWh)

Pays	2021	2022	2021-2022 Change
China	1300	1303.1	0.2%
Brazil	362.8	427.1	17.7%
Canada	382.8	398.4	4.1%
United States	249.0	258.6	3.9%
Russia	214.5	197.7	-7.9%
India	160.3	174.9	9.1%
Norway	143.3	127.6	-10.9%
Vietnam	75.9	96.0	26.4%
Japan	79.5	74.9	-5.9%
Sweden	73.8	69.8	-5.5%
Turkey	55.9	67.2	20.1%
Colombia	60.5	64.3	6.3%
Venezuela	67.8	66.6	-1.8%
France	58.7	44.6	-24%
Austria	38.8	35.5	-8.3%
Italy	45.4	28.2	-38%
Total World	4,288.8	4,334.2	1.1%

Source: The Energy Institute Statistical Review of World Energy™ 2023