

Global photovoltaic electricity production

Photovoltaic electricity has seen the strongest growth among renewable energies (27.6%). According to the International Energy Agency (IEA), it is expected to triple by 2030 and account for 35% of total green energy (wind and hydro each accounting for 29%). China is the world leader, accounting for 47% of global installed solar capacity. Brazil has made particularly strong progress (80% from 2021 to 2022, 40% from 2023 to 2024), its output is nearing Germany's, a pioneer in solar energy.

Global photovoltaic electricity production (in terawatt-hours – TWh)

Country	2023	2024	Changes for 2023 - 2024
China	584.2	839	43.2%
United States	241.4	306.2	26.5%
India	116.1	136.8	17.4%
Japan	96.4	96.7	0.1%
Germany	63.9	74.1	15.7%
Brazil	50.6	71.3	40.5%
Spain	48.6	56.5	15.9%
Australia	45	50.2	11.3%
Italy	30.7	36.2	17.6%
South Korea	33.2	32.7	-1.8%
Turkey	22.1	30.4	37.1%
Vietnam	25.7	25.9	0.4%
Mexico	23.3	25.7	9.9%
France	21.3	23.2	8.5%
Netherlands	19.6	21.6	10.3%
World total	1,650.90	2,111.7	27.6%

Source : [The Energy Institute Statistical Review of World Energy™ 2025](#)