International Energy Outlook 2023

Release date: October 2023

Table E17.gen. Electricity generation: India, Reference case

billion kilowatthours

Fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Liquid fuels	4	4	1	0	0	0	0	-14.7%
Natural gas	78	73	83	83	83	83	83	0.2%
Coal	1,240	1,251	1,473	1,420	1,436	1,454	1,411	0.5%
Nuclear	41	42	52	67	70	70	70	1.9%
Renewables	395	596	870	1,495	2,096	2,822	3,587	8.2%
Hydro	154	195	197	199	201	203	205	1.0%
Wind	119	198	289	471	653	653	653	6.3%
Geothermal	0	0	0	0	0	0	0	0.0%
Solar	99	184	368	811	1,241	1,966	2,728	12.6%
Other	23	18	16	14	0	0	0	-100.0%
Net generation to grid	1,757	1,965	2,479	3,064	3,685	4,429	5,150	3.9%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run r_230822.081459

Note: Totals may not equal sum of components due to independent rounding. Net generation to grid represents gross generation minus losses from thermal efficiency and parasitic load.