

Table E12.gen. Electricity generation: Asia Pacific, High Zero-carbon Technology Cost case

billion kilowatthours

Fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Liquid fuels	110	108	49	27	16	11	9	-8.7%
Natural gas	1,617	1,738	1,829	1,789	1,899	2,161	2,329	1.3%
Coal	7,746	7,591	7,976	8,295	8,423	8,394	8,601	0.4%
Nuclear	746	837	993	1,143	1,253	1,329	1,420	2.3%
Renewables	3,726	4,540	5,492	6,494	7,685	9,055	10,008	3.6%
Hydro	1,745	1,949	2,101	2,206	2,257	2,304	2,344	1.1%
Wind	842	1,021	1,302	1,764	2,399	3,072	3,350	5.1%
Geothermal	13	44	67	74	78	78	78	6.7%
Solar	902	1,407	1,912	2,359	2,858	3,404	4,020	5.5%
Other	225	119	110	91	94	197	216	-0.1%
Net generation to grid	13,945	14,815	16,340	17,749	19,276	20,950	22,367	1.7%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hz_230821.151430

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.