

Table E1.cap. Electricity installed generating capacity: World, Low Zero-carbon Technology Cost case

gigawatts

| Fuel | 2022 | 2025 | 2030 | 2035 | 2040 | 2045 | 2050 | Average annual percentage change, 2022–2050 |
|-----------------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|--|
| Liquid fuels | 391 | 377 | 231 | 151 | 112 | 99 | 92 | -5.0% |
| Natural gas | 1,931 | 2,045 | 2,143 | 2,194 | 2,293 | 2,334 | 2,373 | 0.7% |
| Coal | 2,271 | 2,321 | 2,165 | 2,148 | 2,138 | 2,139 | 2,124 | -0.2% |
| Nuclear | 400 | 427 | 427 | 451 | 458 | 487 | 594 | 1.4% |
| Renewables | 3,297 | 4,071 | 5,122 | 6,084 | 7,270 | 8,677 | 10,176 | 4.1% |
| Hydro | 1,211 | 1,318 | 1,377 | 1,418 | 1,437 | 1,452 | 1,466 | 0.7% |
| Wind | 873 | 1,023 | 1,358 | 1,615 | 1,945 | 2,289 | 2,493 | 3.8% |
| Geothermal | 15 | 17 | 27 | 30 | 31 | 32 | 35 | 3.1% |
| Solar | 1,019 | 1,507 | 2,142 | 2,797 | 3,617 | 4,652 | 5,919 | 6.5% |
| Other | 179 | 205 | 218 | 225 | 240 | 252 | 263 | 1.4% |
| Battery storage | 52 | 70 | 145 | 338 | 552 | 1,019 | 1,507 | 12.7% |
| Pumped hydro | 169 | 200 | 211 | 213 | 213 | 213 | 213 | 0.8% |
| Total capacity | 8,511 | 9,511 | 10,445 | 11,580 | 13,037 | 14,968 | 17,078 | 2.5% |

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run lz_230821.151531 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

Note: Totals may not equal sum of components due to independent rounding.