International Energy Outlook 2020
Release date: October 2020

Table 17.1. Installed generating capacity by fuel type: China, Comparative Reference case

gigawatts

fuel	2019	2025	2030	2035	2040	2045	2050	Average annual percent change, 2019-2050
Liquids-fired	7.9	4.6	3.9	3.4	3.4	3.4	3.4	-2.7
Natural-gas-fired	106.1	174.6	305.3	435.1	531.0	551.9	572.9	5.6
Coal-fired	1086.4	1184.8	1220.6	1220.6	1220.6	1220.6	1220.6	0.4
Nuclear	46.2	62.4	79.6	98.6	113.1	139.6	159.6	4.1
Renewables								
Biomass	14.1	14.1	14.1	14.1	14.1	14.1	14.1	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	333.7	400.7	400.7	400.7	400.7	400.7	400.7	0.6
Solar	188.7	468.1	701.3	831.7	940.7	1181.6	1335.0	6.5
Waste	8.6	9.0	9.0	9.0	9.0	9.0	9.0	0.2
Wind	213.5	368.9	414.4	445.9	509.2	605.9	671.6	3.8
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total renewables	758.6	1260.8	1539.6	1701.4	1873.8	2211.4	2430.5	3.8
Total	2005.2	2687.2	3149.0	3459.1	3741.8	4126.9	4387.0	2.6

Totals may not equal sum of components as a result of independent rounding.

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2020)
run: V46_10_1_ref_200529.133756

Table 17.2. Net electricity generation by fuel type: China, Comparative Reference case

billion kilowatthours

fuel	2019	2025	2030	2035	2040	2045	2050	Average annual percent change, 2019-2050
Liquids-fired	7.4	2.9	2.2	1.7	1.7	1.7	1.5	-5.1
Natural-gas-fired	296.5	573.5	743.6	1096.0	1417.9	1270.4	1317.4	4.9
Coal-fired	4185.0	3739.8	3751.3	3752.0	3765.7	3835.2	3752.0	-0.4
Nuclear	324.4	438.2	558.4	691.7	793.5	979.5	1119.8	4.1
Renewables								
Biomass	0.0	1.5	1.5	0.4	1.3	1.5	15.2	infinity
Geothermal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Hydro	1157.2	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4	0.6
Solar	391.7	1052.0	1603.3	1910.3	2169.1	2738.4	3101.1	6.9
Waste	0.0	6.6	6.4	1.6	4.8	6.4	65.1	infinity
Wind	662.6	1098.2	1212.9	1292.1	1421.5	1633.1	1791.0	3.3
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total renewables	2211.7	3547.9	4213.6	4594.0	4986.2	5769.0	6361.9	3.5
Total	7025.0	8302.3	9269.1	10135.4	10965.0	11855.8	12552.6	1.9

Totals may not equal sum of components as a result of independent rounding.

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2020),
run: V46_10_1_ref_200529.133756