

**Table 15.1. Installed generating capacity by fuel type: China, Reference Natural Gas Price with Low Renewable Cost case**

gigawatts

| <b>fuel</b>              | <b>2019</b>   | <b>2025</b>   | <b>2030</b>   | <b>2035</b>   | <b>2040</b>   | <b>2045</b>   | <b>2050</b>   | <b>Average annual percent change, 2019-2050</b> |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---|
| <b>Liquids-fired</b>     | 7.9           | 4.6           | 3.9           | 3.5           | 3.5           | 3.5           | 3.5           | -2.6  |
| <b>Natural-gas-fired</b> | 106.1         | 174.6         | 307.5         | 447.3         | 502.0         | 522.9         | 543.8         | 5.4   |
| <b>Coal-fired</b>        | 1086.4        | 1184.8        | 1103.1        | 1103.1        | 1103.1        | 1103.1        | 1103.1        | 0.1   |
| <b>Nuclear</b>           | 46.2          | 62.4          | 79.6          | 98.6          | 113.1         | 125.6         | 131.6         | 3.4   |
| <b>Renewables</b>        |               |               |               |               |               |               |               |   |
| 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         | 678.5         | 798.5         | 929.0         | 1213.1        | 1537.4        | 7.0   |
| Waste                    | 8.6           | 9.0           | 9.0           | 9.0           | 9.0           | 9.0           | 9.0           | 0.2   |
| Wind                     | 213.5         | 380.0         | 487.5         | 608.4         | 851.6         | 1130.6        | 1218.6        | 5.8   |
| Other renewables         | 0.0           | 0.0           | 0.0           | 0.0           | 0.0           | 0.0           | 0.0           | 0.0   |
| <b>Total renewables</b>  | <b>758.6</b>  | <b>1271.9</b> | <b>1589.8</b> | <b>1830.8</b> | <b>2204.4</b> | <b>2767.5</b> | <b>3179.9</b> | <b>4.7</b>                                      |
| <b>Total</b>             | <b>2005.2</b> | <b>2698.3</b> | <b>3083.9</b> | <b>3483.2</b> | <b>3926.0</b> | <b>4522.5</b> | <b>4961.8</b> | <b>3.0</b>                                      |

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\_LoRen\_rev\_200715.172258

**Table 15.2. Net electricity generation by fuel type: China, Reference Natural Gas Price with Low Renewable Cost case**

billion kilowatthours

| <b>fuel</b>              | <b>2019</b>   | <b>2025</b>   | <b>2030</b>   | <b>2035</b>    | <b>2040</b>    | <b>2045</b>    | <b>2050</b>    | <b>Average annual percent change, 2019-2050</b> |
|--------------------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|---|
| <b>Liquids-fired</b>     | 7.4           | 2.9           | 2.0           | 1.9            | 1.9            | 2.1            | 2.1            | -4.1  |
| <b>Natural-gas-fired</b> | 296.5         | 553.8         | 711.3         | 1092.6         | 1155.6         | 1202.5         | 1249.4         | 4.8   |
| <b>Coal-fired</b>        | 4185.0        | 3739.8        | 3656.7        | 3546.1         | 3546.1         | 3120.4         | 3107.0         | -1.0  |
| <b>Nuclear</b>           | 324.4         | 438.2         | 558.4         | 691.7          | 793.5          | 881.2          | 923.3          | 3.4   |
| <b>Renewables</b>        |               |               |               |                |                |                |                |   |
| Biomass                  | 0.0           | 1.5           | 1.5           | 0.4            | 0.5            | 1.5            | 1.5            | 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        | 1549.4        | 1833.1         | 2141.5         | 2812.8         | 3579.4         | 7.4   |
| Waste                    | 0.0           | 6.6           | 6.6           | 1.6            | 2.3            | 6.6            | 6.6            | infinity  |
| Wind                     | 662.6         | 1126.3        | 1396.8        | 1617.1         | 2138.1         | 2708.1         | 2988.0         | 5.0   |
| Other renewables         | 0.0           | 0.0           | 0.0           | 0.0            | 0.0            | 0.0            | 0.0            | 0.0   |
| <b>Total renewables</b>  | <b>2211.7</b> | <b>3576.0</b> | <b>4343.8</b> | <b>4841.8</b>  | <b>5671.9</b>  | <b>6918.6</b>  | <b>7965.0</b>  | <b>4.2</b>                                      |
| <b>Total</b>             | <b>7025.0</b> | <b>8310.6</b> | <b>9272.2</b> | <b>10174.0</b> | <b>11168.9</b> | <b>12124.7</b> | <b>13246.9</b> | <b>2.1</b>                                      |

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)

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