China

Production (2021): 4,125,995 metric tons; Global ranking: 1
Consumption (2021): 4,241,378 metric tons; Global ranking: 1
Exports (2021): 2,576 metric tons; Global ranking: 14
Imports (2021): 323,678 metric tons; Global ranking: 1

Coal power generation (2021): 5,339.14 TWh, 62.9% of total electricity
Coal power installed capacity (2023): 1,092.9 GW; Global ranking: 1
Coal power plants (2023): 1,135 plants in operation, of which 23 units (4.8 GW) have announced retirement by 2030; 113 plants (115.5 GW) under construction, 193 plants (250.1 GW) at early development stages

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
<th>30~40 years</th>
<th>20~30 years</th>
<th>10~20 years</th>
<th>&lt; 10 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (% of total)</td>
<td>1 GW</td>
<td>30.0 GW</td>
<td>99.6 GW</td>
<td>537.0 GW</td>
<td>420.4 GW</td>
</tr>
<tr>
<td>Age group</td>
<td>&gt; 40 years</td>
<td>30~40 years</td>
<td>20~30 years</td>
<td>10~20 years</td>
<td>&lt; 10 years</td>
</tr>
<tr>
<td>Capacity (% of total)</td>
<td>0.1%</td>
<td>2.7%</td>
<td>9.1%</td>
<td>49.1%</td>
<td>38.5%</td>
</tr>
</tbody>
</table>

POLICY SUMMARY

- "No new coal" pledge: n/a (start strictly controlling coal growth through 2025 and start to reduce consumption after in 2026)
- Coal power phaseout target: n/a
- Net-zero target: peak carbon emissions by 2030 and achieve carbon neutrality by 2060
India

Production (2021): 762,002 metric tons; Global ranking: 2
Consumption (2021): 896,171 metric tons; Global ranking: 2
Exports (2021): 836 metric tons; Global ranking: 23
Imports (2021): 191,245 metric tons; Global ranking: 2
(Source: EIA)

Coal power generation (2021): 1,271 TWh, 73% of total electricity
(Source: Ember)
Coal power installed capacity (2023): 234.3 GW; Global ranking: 2
(Source: Global Energy Monitor)
Coal power plants (2023): 277 plants in operation, 25 plants (32 GW) under construction, 26 plants (28.5 GW) at early development stages
(Source: Global Energy Monitor)

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
<th>30~40 years</th>
<th>20~30 years</th>
<th>10~20 years</th>
<th>&lt; 10 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (% of total)</td>
<td>4.2 GW</td>
<td>26.5 GW</td>
<td>19.2 GW</td>
<td>68.8 GW</td>
<td>115.2 GW</td>
</tr>
<tr>
<td></td>
<td>1.8 %</td>
<td>11.3 %</td>
<td>8.2 %</td>
<td>29.4 %</td>
<td>49.2 %</td>
</tr>
</tbody>
</table>

(Source: Global Energy Monitor)

POLICY SUMMARY

- "No new coal" pledge: Nationally (n/a); State commitments (Chhattisgarh: 2019, Gujarat: 2019, Marahashta: 2020, Karnataka: 2021)
(Source: The Economic Times)
- Coal power phase-out target: n/a
- Net-zero target: 2070
(Source: The Hill)
United States

Production (2021): 523,836 metric tons; Global ranking: 4
Consumption (2021): 496,589 metric tons; Global ranking: 4
Exports (2021): 77,216 metric tons; Global ranking: 4
Imports (2021): 4,889 metric tons; Global ranking: 28

Coal power generation (2022): 898 TWh, 21.9% of total electricity
Coal power installed capacity (2023): 212.0 GW; Global ranking: 3
Coal power plants (2023): 217 plants in operation, of which 162 units (88.1 GW) have announced retirement by 2030, no plants in early development stages or under construction.

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
<th>30~40 Years</th>
<th>20~30 Years</th>
<th>10~20 Years</th>
<th>&lt; 10 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (%) of total</td>
<td>136.9 GW</td>
<td>47.0 GW</td>
<td>5.5 GW</td>
<td>20.8 GW</td>
<td>2.0 GW</td>
</tr>
</tbody>
</table>

POLICY SUMMARY

- "No new coal" pledge: n/a
- Net-zero target: 2050
Japan

Production (2021): 675 metric tons; Global ranking: 5
Consumption (2021): 183,138 metric tons; Global ranking: 5
Exports (2021): 6 metric tons; Global ranking: 53
Imports (2021): 182,468 metric tons; Global ranking: 3

Coal power generation (2021): 311.6 TWh, 32.5% of total electricity
Coal power installed capacity (2023): 53.0 GW; Global ranking: 4
Coal power plants (2023): 93 plants in operation, of which 8 plants (1.7 GW) have announced retirement by 2030; 3 (2.5 GW) plants under construction, 1 (0.5 GW) plants at early development stages.

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
<th>30~40 Years</th>
<th>20~30 Years</th>
<th>10~20 Years</th>
<th>&lt; 10 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (%) of total</td>
<td>4.9 GW</td>
<td>8.7 GW</td>
<td>20.4 GW</td>
<td>8.0 GW</td>
<td>11.0 GW</td>
</tr>
<tr>
<td></td>
<td>9.2 %</td>
<td>16.4 %</td>
<td>38.6 %</td>
<td>15.1 %</td>
<td>20.7 %</td>
</tr>
</tbody>
</table>

No new coal pledge: n/a
Coal power phaseout target: n/a (Japan does plan to limit the share of coal in Japan’s supply mix to 19% by fiscal year 2030)
Net-zero target: 2050

POLICY SUMMARY

- "No new coal" pledge: n/a
- Coal power phaseout target: n/a (Japan does plan to limit the share of coal in Japan’s supply mix to 19% by fiscal year 2030)
- Net-zero target: 2050

Additional country information:
- go.umd.edu/3KcapWY

South Africa

Production (2021): 228,533 metric tons; Global ranking: 7
Consumption (2021): 177,290 metric tons; Global ranking: 6
Exports (2021): 66,116 metric tons; Global ranking: 5
Imports (2021): 2,874 metric tons; Global ranking: 35

Coal power generation (2021): 192.7 TWh, 86.3% of total electricity
Coal power installed capacity (2023): 43.6 GW; Global ranking: 5
Coal power plants (2023): 18 plants in operation, of which 43 plants (10.8 GW) have announced retirement by 2030; 1 plant (1.6 GW) under construction, 2 plants (1.6 GW) at early development stages.

**Coal power capacity by vintage group:**

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
<th>30~40 Years</th>
<th>20~30 Years</th>
<th>10~20 Years</th>
<th>&lt; 10 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (% of total)</td>
<td>14.2 GW</td>
<td>16.7 GW</td>
<td>4.8 GW</td>
<td>0.0 GW</td>
<td>8 GW</td>
</tr>
<tr>
<td></td>
<td>32.5 %</td>
<td>38.2 %</td>
<td>11.1 %</td>
<td>0.0 %</td>
<td>18.3 %</td>
</tr>
</tbody>
</table>

**POLICY SUMMARY**

- "No new coal" pledge: n/a
- Coal power phaseout target: n/a (decommissioning plans would reduce coal use to less than 30% of electricity generation by 2040, 20% by 2050)
- Just Energy Transition Partnership: Western countries awarded US$ 8.5 billion to South Africa to support coal power plants decommissioning, energy efficiency initiatives and community development.
- Net-zero target: 2050
Indonesia

Production (2021): 613,990 metric tons; Global ranking: 3
Consumption (2021): 150,122 metric tons; Global ranking: 8
Exports (2021): 433,611 metric tons; Global ranking: 1
Imports (2021): 13,437 metric tons; Global ranking: 17

Coal power generation (2021): 190 TWh, 61% of total electricity
Coal power installed capacity (2022): 40.6 GW; Global ranking: 6
Coal power plants (2022): 88 plants in operation; 23 plants (18.8GW) under construction, 15 plants (7.5 GW) at early development stages.

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
<th>30~40 years</th>
<th>20~30 years</th>
<th>10~20 years</th>
<th>&lt; 10 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (%) of total</td>
<td>0.0 GW</td>
<td>1.8 GW</td>
<td>6.5 GW</td>
<td>11.6 GW</td>
<td>20.7 GW</td>
</tr>
<tr>
<td></td>
<td>0.0 %</td>
<td>4.3 %</td>
<td>15.9 %</td>
<td>28.5 %</td>
<td>50.9 %</td>
</tr>
</tbody>
</table>

POLICY SUMMARY

- "No new coal" pledge: n/a (Major electricity provider PLN to stop building in 2023 with exception of plants that have reached their financial close or with construction already underway) (Source: Reuters)
- Coal power phaseout target: Pledged to consider the 2040s, conditional on international financing and technical assistance; PLN plans to phase out coal by 2056 (Source: COP26, IEEFA)
- Just Energy Transition Partnership: G20 awarded US $20 billion to Indonesia to develop an investment plan that caps power sector emissions by 2030, and allows the country to reach net zero emissions in the power sector by 2050. (Source: The White House)
- Net-zero target: 2060 (sooner with assistance) (Source: UNFCCC)

Additional country information: go.umd.edu/3KcapJY
Germany

Production (2021): 126,257 metric tons; Global ranking: 13
Consumption (2021): 164,624 metric tons; Global ranking: 10
Exports (2021): 2,086 metric tons; Global ranking: 15
Imports (2021): 38,785 metric tons; Global ranking: 7

Coal power generation (2021): 181 TWh, 31.05% of total electricity
Coal power installed capacity (2023): 40.5 GW; Global ranking: 7
Coal power plants (2023): 60 plants in operation, of which 50 units (20.2 GW) have announced retirement by 2030; 0 plants under construction or at early development stages.

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
<th>30~40 Years</th>
<th>20~30 Years</th>
<th>10~20 Years</th>
<th>&lt; 10 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (% of total)</td>
<td>12.1 GW</td>
<td>11.9 GW</td>
<td>8.2 GW</td>
<td>3.0 GW</td>
<td>5.4 GW</td>
</tr>
<tr>
<td></td>
<td>29.8 %</td>
<td>29.5 %</td>
<td>20.2 %</td>
<td>7.3 %</td>
<td>13.2 %</td>
</tr>
</tbody>
</table>

POLICY SUMMARY

- "No new coal" pledge: n/a
- Coal power phase-out target: 2030
- Net-zero target: 2045

Additional country information:  [go.umd.edu/KxgwpVX](go.umd.edu/KxgwpVX)
Russia

Production (2021): 436,400 metric tons; Global ranking: 6
Consumption (2021): 222,011 metric tons; Global ranking: 4
Exports (2021): 237,671 metric tons; Global ranking: 3
Imports (2021): 23,281 metric tons; Global ranking: 13

Coal power generation (2021): 192.12 TWh, 17.3% of total electricity
Coal power installed capacity (2023): 39.9 GW; Global ranking: 8
Coal power plants (2023): 76 plants in operation, of which 41 units (4.0 GW) have announced retirement by 2030; 1 plant (.1 GW) under construction, 8 plants (3.2 GW) at early development stages.

**Policy Summary**

- "No new coal" pledge: n/a
- Coal power phase-out target: n/a
- Net-zero target: 2060
South Korea

Production (2021): 898 metric tons; Global ranking: 47
Consumption (2021): 126,514 metric tons; Global ranking: 7
Exports (2021): 0.45 metric tons; Global ranking: 66
Imports (2021): 125,616 metric tons; Global ranking: 4

Coal power generation (2021): 210.19 TWh, 35.7% of total electricity (Source: Ember)
Coal power installed capacity (2023): 39.2 GW; Global ranking: 9 (Source: Global Energy Monitor)
Coal power plants (2023): 24 plants in operation, of which 20 plants (9.5 GW) have announced retirement by 2030; 2 (3.1 GW) plants under construction, and no plants at early development stages (Source: Global Energy Monitor)

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 Years</th>
<th>30~40 Years</th>
<th>20~30 Years</th>
<th>10~20 Years</th>
<th>&lt; 10 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (of total)</td>
<td>0.2 GW</td>
<td>0.1 GW</td>
<td>12.6 GW</td>
<td>9.2 GW</td>
<td>17.1 GW</td>
</tr>
<tr>
<td></td>
<td>0.5 %</td>
<td>0.2 %</td>
<td>32.1 %</td>
<td>23.6 %</td>
<td>43.6 %</td>
</tr>
</tbody>
</table>

*POLICY SUMMARY*

- "No new coal" pledge: Pledged no new unabated coal at COP26 (Source: COP26)
- Coal power phaseout target: 2050 (Source: Korea Herald)
- Net-zero target: 2050 (Source: IEA)
Poland

Production (2021): 107,362 metric tons; Global ranking: 9
Consumption (2021): 116,372 metric tons; Global ranking: 12
Exports (2021): 6,511 metric tons; Global ranking: 13
Imports (2021): 12,744 metric tons; Global ranking: 18
(Source: EIA)

Coal power generation (2021): 124.1 TWh, 69.27% of total electricity
Coal power installed capacity (2023): 29.1 GW; Global ranking: 10
Coal power plants (2023): 43 plants in operation, of which 63 units (8.8 GW) have announced retirement by 2030; 1 plant (0.1 GW) under construction, 0 plants at early development stages
(Source: Global Energy Monitor)

Additional country information:
g.o.u.m.edu/3KcapWy

POLICY SUMMARY

- "No new coal" pledge: n/a
- Coal power phase-out target: 2049 (Eastern Wielkopolska: 2030) (Source: DW News, Just Transition Info)
- Just Transition Fund: The European Commission adopted Territorial Just Transition Plans (TJTPs) in five coal regions (Silesia, Małopolska, Wielkopolska, Lower Silesia, and Łódzkie). (Source: European Commission)
- Net-zero target: 2050 (Source: Euronews)
Vietnam

Production (2021): 47,845 metric tons; Global ranking: 12
Consumption (2021): 91,835 metric tons; Global ranking: 9
Exports (2021): 971 metric tons; Global ranking: 22
Imports (2021): 39,926 metric tons; Global ranking: 6

Coal power generation (2021): 114.1 TWh, 46% of total electricity
Coal power installed capacity (2023): 24.6 GW; Global ranking: 11
Coal power plants (2023): 25 plants in operation, 5 plants (6.1 GW) under construction, 3 plants (1.2 GW) at early development stages

Policy Summary

- "No new coal" pledge: Pledged no new unabated coal at COP26
- Coal power phase-out target: n/a
- Just Energy Transition Partnership: Vietnam was awarded US $15.5 billion to support its green transition, which includes reducing emissions from the power sector by 30% by 2030, and peaking coal capacity to 30.2 GW.
- Net-zero target: 2050

Additional country information: go.umd.edu/3KcapWY
Australia

Production (2021): 467,143 metric tons; Global ranking: 5
Consumption (2021): 99,718.6 metric tons; Global ranking: 13
Exports (2021): 365,798.6 metric tons; Global ranking: 2
Imports (2021): 112.5 metric tons; Global ranking: 82
(Source: EIA)

Coal power generation (2021): 126.8 TWh, 51.32% of total electricity (Source: Ember)
Coal power installed capacity (2023): 24.0 GW; Global ranking: 12 (Source: Global Energy Monitor)
Coal power plants (2023): 19 plants in operation, of which 19 units (8.9 GW) have announced retirement by 2030; 0 plants under construction, 1 plant (1 GW) at early development stages (Source: Global Energy Monitor)

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
<th>30~40 years</th>
<th>20~30 years</th>
<th>10~20 years</th>
<th>&lt; 10 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (% of total)</td>
<td>6.2 GW</td>
<td>10.4 GW</td>
<td>5.2 GW</td>
<td>2.2 GW</td>
<td>0 GW</td>
</tr>
<tr>
<td></td>
<td>26.0 %</td>
<td>43.2 %</td>
<td>21.5 %</td>
<td>9.2 %</td>
<td>0.0 %</td>
</tr>
</tbody>
</table>
(Source: Global Energy Monitor)

POLICY SUMMARY

- "No new coal" pledge: n/a
- Coal power phase-out target: n/a (Queensland: 2035, Western Australia: 2030) (Source: S&P Global, The Guardian)
- Net-zero target: 2050 (Source: Climate Action Tracker)

Additional country information
op.umd.edu/3KcapWY
Turkey

Production (2021): 85,633 metric tons; Global ranking: 15
Consumption (2021): 109,604 metric tons; Global ranking: 14
Exports (2021): 86 metric tons; Global ranking: 41
Imports (2021): 36,517 metric tons; Global ranking: 8
(Source: EIA)

Coal power generation (2021): 101.9 TWh, 30.76% of total electricity
(Source: Ember)
Coal power installed capacity (2023): 20.1 GW; Global ranking: 13
(Source: Global Energy Monitor)
Coal power plants (2023): 35 plants in operation, 12 plants (10.4 GW) in early development stages. There is 1 plant (.1 GW) under construction.
(Source: Global Energy Monitor)

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
<th>30~40 years</th>
<th>20~30 years</th>
<th>10~20 years</th>
<th>&lt; 10 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (% of total)</td>
<td>0.9 GW</td>
<td>4.2 GW</td>
<td>1.1 GW</td>
<td>5.4 GW</td>
<td>8.5 GW</td>
</tr>
<tr>
<td>%</td>
<td>4.6 %</td>
<td>20.8 %</td>
<td>5.5 %</td>
<td>26.9 %</td>
<td>42.3 %</td>
</tr>
</tbody>
</table>

(Source: Global Energy Monitor)

POLICY SUMMARY

- "No new coal" pledge: n/a
- Coal power phase-out target: n/a
- Net-zero target: 2053
(Source: Al-Monitor)

Additional country information:
[go.umd.edu/3KcapWY]
Malaysia

Production (2021): 3,119 metric tons; Global ranking: 33
Consumption (2021): 32,863 metric tons; Global ranking: 17
Exports (2021): 143 metric tons; Global ranking: 38
Imports (2021): 35,084 metric tons; Global ranking: 10

Coal power generation (2021): 77.2 TWh, 44% of total electricity
Coal power installed capacity (2023): 13.3 GW; Global ranking: 15
Coal power plants (2023): 8 plants in operation, of which 11 plants (3.9 GW) have announced retirement by 2030; no plants under construction or at early development stages.

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
<th>30~40 years</th>
<th>20~30 years</th>
<th>10~20 years</th>
<th>&lt; 10 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (%)</td>
<td>0 GW</td>
<td>0.6 GW</td>
<td>1.8 GW</td>
<td>5.3 GW</td>
<td>5.6 GW</td>
</tr>
<tr>
<td>(% of total)</td>
<td>0 %</td>
<td>4.5 %</td>
<td>13.6 %</td>
<td>39.8 %</td>
<td>42.2 %</td>
</tr>
</tbody>
</table>

Additional country information: go.umed.edu/3KcapWY

POLICY SUMMARY

- "No new coal" pledge: 2021
- Coal phase-out target: 7 GW of coal plant retirement by 2033, at the end of 25 yrs PPA term
- Net-zero target: 2050
Philippines

Production (2021): 14,378 metric tons; Global ranking: 19
Consumption (2021): 25,483 metric tons; Global ranking: 21
Exports (2021): 9,333 metric tons; Global ranking: 12
Imports (2021): 31,239 metric tons; Global ranking: 11

Coal power generation (2021): 49.2 TWh, 45.5% of total electricity
Coal power installed capacity (2023): 11.9 GW; Global ranking: 17
Coal power plants (2023): 25 plants in operation, 2 plants (0.7 GW) under construction, 4 plants (1.6 GW) at early development stages.

Coal power capacity by vintage group:

-POLICY SUMMARY-

- "No new coal" pledge: 2020
- Coal power phase-out target: Partially endorsed goal of coal phase down in 2040s at COP26
- Net-zero target: n/a; goal of 75% reduction in emissions by 2030
Pakistan

Production (2021): 8,442 metric tons; Global ranking: 27
Consumption (2021): 26,539 metric tons; Global ranking: 20
Exports (2021): 1 metric ton; Global ranking: 59
Imports (2021): 19,605 metric tons; Global ranking: 15
(Source: EIA)

Coal power generation (2021): 17.31 TWh, 11.53% of total electricity (Source: Ember)
Coal power installed capacity (2023): 7.6 GW; Global ranking: 19 (Source: Global Energy Monitor)
Coal power plants (2023): 15 plants in operation, 5 plants (4.0 GW) in early development stages. There are 3 plants (.7 GW) under construction. (Source: Global Energy Monitor)

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
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<th>&lt; 10 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (% of total)</td>
<td>0.0 GW</td>
<td>0.0%</td>
<td>0.0 GW</td>
<td>0.0 GW</td>
<td>7.6 GW</td>
</tr>
</tbody>
</table>

(Policy Summary)

- "No new coal" pledge: n/a
- Coal power phase-out target: n/a
- Net-zero target: n/a
Bangladesh

Production (2021): 1,051 metric tons; Global ranking: 48
Consumption (2021): 7,785 metric tons; Global ranking: 36
Exports (2021): 0 metric tons; Global ranking: –
Imports (2021): 6,733 metric tons; Global ranking: 23
(Source: EIA)

Coal power generation (2021): 10.2 TWh, 13% of total electricity (Source: Ember)
Coal power installed capacity (2023): 2.9 GW; Global ranking: 36 (Source: Global Energy Monitor)
Coal power plants (2023): 4 plants in operation, 5 plants (5.7 GW) under construction, 3 plants (6.7 GW) at early development stages. (Source: Global Energy Monitor)

Coal power capacity by vintage group:

<table>
<thead>
<tr>
<th>Age group</th>
<th>&gt; 40 years</th>
<th>30~40 years</th>
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</thead>
<tbody>
<tr>
<td>Capacity (% of total)</td>
<td>0.0 GW</td>
<td>0.0 GW</td>
<td>0.0 GW</td>
<td>0.3 GW</td>
<td>2.6 GW</td>
</tr>
<tr>
<td></td>
<td>0.0 %</td>
<td>0.0 %</td>
<td>0.0 %</td>
<td>8.8 %</td>
<td>91.2 %</td>
</tr>
</tbody>
</table>
(Source: Global Energy Monitor)

POLICY SUMMARY

- "No new coal" pledge: n/a
- Coal power phase-out target: n/a
- Net-zero target: n/a

Additional country information: go.umd.edu/3KcapwY