Electricity
World net electricity generation by source

World net electricity generation by source
trillion kilowatthours

2010 2020 2030 2040 2050

history projections

Other
Wind
Solar
Hydroelectric
Nuclear
Natural gas
Coal
World net electricity generation shares by fuel

World net electricity generation by source
trillion kilowatthours

Share of net electricity generation
percentage

history projections

renewables

natural gas
coal
nuclear
liquid fuels
World net electricity generation from renewables

World net electricity generation from renewables

trillion kilowatthours

<table>
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<tr>
<th>Year</th>
<th>2010</th>
<th>2020</th>
<th>2030</th>
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Share of renewable energy

percentage

<table>
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</table>

- other
- geothermal
- solar
- wind
- hydroelectric
World net electricity generation by region and electricity use by sector

OECD and non-OECD net electricity generation

World electricity use by sector

OECD

non-OECD

2010 2020 2030 2040 2050

0 5 10 15 20 25 30

2010 2020 2030 2040 2050

0 5 10 15 20 25 30

2010 2020 2030 2040 2050

0 10 20 30 40 50 60

2010 2020 2030 2040 2050

0 10 20 30 40 50 60

industrial

residential

commercial

transportation

OECD

non-OECD
Electricity generation in Reference, High Economic Growth, and Low Economic Growth cases

OECD electricity generation
trillion kilowatthours

Non-OECD electricity generation
trillion kilowatthours

High Economic Growth
Reference
Low Economic Growth
Electricity generation growth rate in Reference, High Economic Growth, and Low Economic Growth cases

**OECD electricity generation growth rate**
3-year average, percentage

-2% -1% 0% 1% 2% 3% 4% 5% 6% 7%

- History
- Projections

**Non-OECD electricity generation growth rate**
3-year average, percentage

-2% -1% 0% 1% 2% 3% 4% 5% 6% 7%

- History
- Projections

High Economic Growth
Reference
Low Economic Growth
Electricity generation change from 2020, by type

OECD electricity generation change from 2020, by type
trillion kilowatthours

Non-OECD electricity generation change from 2020, by type
trillion kilowatthours

-2 0 2 4 6 8 10 12 14

2025 2030 2035 2040 2045 2050

OECD: 

Non-renewables
Renewables

Non-OECD: 

Non-renewables
Renewables
Total electricity consumption by sector

**Total electricity consumption by sector, OECD**
quadrillion British thermal units

- Residential
- Commercial
- Industrial
- Transportation

**Total electricity consumption by sector, non-OECD**
quadrillion British thermal units
Canada net electricity generation by source

Net electricity generation by source, Canada
trillion kilowatthours

Share of net electricity generation, Canada
percentage

2010 2020 2030 2040 2050

history    projections

other
solar
wind

hydroelectric

nuclear
natural gas
coal

natural gas
coal
hydroelectric
solar
wind

2010 2020 2030 2040 2050

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

2010 2020 2030 2040 2050

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

Net electricity generation by source, Canada

Share of net electricity generation, Canada
Mexico and other OECD Americas net electricity generation by source

Net electricity generation by source, Mexico and other OECD Americas
trillion kilowatthours

Share of net electricity generation, Mexico and other OECD Americas
percentage

- history
- projections

- other
- solar
- wind
- hydroelectric
- nuclear
- natural gas
- coal
Japan net electricity generation by source

Net electricity generation by source, Japan
trillion kilowatthours

Share of net electricity generation, Japan
percentage

history    projections

other    solar
wind
hydroelectric
nuclear
natural gas
coal

2010 2020 2030 2040 2050

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

2010 2020 2030 2040 2050
Australia and New Zealand net electricity generation by source

Net electricity generation by source, Australia and New Zealand

- trillion kilowatthours

<table>
<thead>
<tr>
<th>Year</th>
<th>Coal</th>
<th>Natural Gas</th>
<th>Nuclear</th>
<th>Hydroelectric</th>
<th>Solar</th>
<th>Other</th>
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<td>0.20</td>
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<td>0.30</td>
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<td>0.10</td>
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<td>0.10</td>
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<td>0.10</td>
<td>0.30</td>
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<td>0.20</td>
<td>0.10</td>
<td>0.30</td>
<td>0.05</td>
<td>0.10</td>
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Share of net electricity generation, Australia and New Zealand

- percentage

- history
- projections

- other
- solar
- wind
- hydroelectric
- nuclear
- natural gas
- coal
OECD Europe net electricity generation by source

Net electricity generation by source, OECD Europe
trillion kilowatthours

Share of net electricity generation, OECD Europe
percentage

- history
- projections

Other, solar, wind, hydroelectric, nuclear, natural gas, coal
Russia net electricity generation by source

Net electricity generation by source, Russia

<table>
<thead>
<tr>
<th>Year</th>
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<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
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</thead>
<tbody>
<tr>
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<td>1.4</td>
<td>1.6</td>
<td>1.8</td>
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Share of net electricity generation, Russia

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<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
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<tbody>
<tr>
<td>Natural gas</td>
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<td>0.6</td>
<td>0.8</td>
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</tr>
<tr>
<td>Coal</td>
<td>0.1</td>
<td>0.3</td>
<td>0.5</td>
<td>0.7</td>
<td>0.9</td>
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<tr>
<td>Nuclear</td>
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<td>0.7</td>
<td>0.9</td>
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<td>1.3</td>
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<td>Hydroelectric</td>
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<td>0.15</td>
<td>0.2</td>
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<td>Solar</td>
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<td>0.15</td>
<td>0.2</td>
<td>0.25</td>
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<td>Wind</td>
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<td>0.1</td>
<td>0.15</td>
<td>0.2</td>
<td>0.25</td>
</tr>
<tr>
<td>Other</td>
<td>0.05</td>
<td>0.1</td>
<td>0.15</td>
<td>0.2</td>
<td>0.25</td>
</tr>
</tbody>
</table>
Other non-OECD Europe and Eurasia net electricity generation by source

Net electricity generation by source, Other non-OECD Europe and Eurasia

Share of net electricity generation, Other non-OECD Europe and Eurasia

trillion kilowatthours

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

2010 2020 2030 2040 2050 history projections

other solar wind hydroelectric nuclear natural gas coal

2010 2020 2030 2040 2050 history projections
India net electricity generation by source

**Net electricity generation by source, India**
trillion kilowatthours

- **History**
  - 2010: [Value]
  - 2020: [Value]
  - 2030: [Value]
  - 2040: [Value]
  - 2050: [Value]

- **Projections**
  - 2010: [Value]
  - 2020: [Value]
  - 2030: [Value]
  - 2040: [Value]
  - 2050: [Value]

**Share of net electricity generation, India**
percentage

- **History**
  - 2010: [Percentage]
  - 2020: [Percentage]
  - 2030: [Percentage]
  - 2040: [Percentage]
  - 2050: [Percentage]

- **Projections**
  - 2010: [Percentage]
  - 2020: [Percentage]
  - 2030: [Percentage]
  - 2040: [Percentage]
  - 2050: [Percentage]

- **Other**
- **Solar**
- **Wind**
- **Hydroelectric**
- **Nuclear**
- **Natural Gas**
- **Coal**
China net electricity generation by source

Net electricity generation by source, China
trillion kilowatthours

Share of net electricity generation, China
percentage

- Coal
- Natural gas
- Nuclear
- Wind
- Solar
- Hydroelectric
- Other
Other non-OECD Asia net electricity generation by source

Net electricity generation by source, Other non-OECD Asia

<table>
<thead>
<tr>
<th>Year</th>
<th>Other non-OECD Asia net electricity generation by source (trillion kilowatthours)</th>
<th>Share of net electricity generation, Other non-OECD Asia (percentage)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2020</td>
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<tr>
<td>2050</td>
<td></td>
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</tr>
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</table>
Middle East net electricity generation by source

Net electricity generation by source, Middle East
trillion kilowatthours

Share of net electricity generation, Middle East
percentage

2010 2020 2030 2040 2050

history projections

other solar wind hydroelectric nuclear natural gas coal
Africa net electricity generation by source

Net electricity generation by source, Africa
trillion kilowatthours

Share of net electricity generation, Africa
percentage

- history
- projections

- other
- solar
- wind
- hydroelectric
- nuclear
- natural gas
- coal
Brazil net electricity generation by source

Net electricity generation by source, Brazil
trillion kilowatthours

Share of net electricity generation, Brazil
percentage

Brazil net electricity generation by source

- solar
- wind
- hydroelectric
- nuclear
- natural gas
- coal

2010 2020 2030 2040 2050

history    projections
Other non-OECD Americas net electricity generation by source

Net electricity generation by source, Other non-OECD Americas

trillion kilowatthours

Share of net electricity generation, Other non-OECD Americas

percentage

2010 2020 2030 2040 2050

history    projections

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

2010 2020 2030 2040 2050

other solar
wind
hydroelectric
nuclear natural gas
coal

Other non-OECD Americas net electricity generation by source
United States electric generating capacity by source

Installed electric generating capacity by source, United States
gigawatts

<table>
<thead>
<tr>
<th>Year</th>
<th>History</th>
<th>Projections</th>
</tr>
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<tbody>
<tr>
<td>2010</td>
<td>500</td>
<td>1000</td>
</tr>
<tr>
<td>2020</td>
<td>1000</td>
<td>1500</td>
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<td>1500</td>
<td>2000</td>
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<tr>
<td>2040</td>
<td>2000</td>
<td>2500</td>
</tr>
<tr>
<td>2050</td>
<td>2500</td>
<td>3000</td>
</tr>
</tbody>
</table>

Share of installed electric generating capacity, United States
percentage

- **Hydroelectric**: 20%, 30%, 40%
- **Nuclear**: 10%, 20%, 30%
- **Natural gas**: 15%, 25%, 35%
- **Wind**: 5%, 10%, 15%
- **Solar**: 5%, 10%, 15%
- **Battery storage**: 0%, 5%, 10%
- **Other**: 10%, 15%, 20%

2010 - 2050 projections show a significant increase in renewable energy sources, particularly solar and wind, while traditional sources like natural gas and coal decrease.
Canada electric generating capacity by source

Installed electric generating capacity by source, Canada

<table>
<thead>
<tr>
<th>Year</th>
<th>2010</th>
<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
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<tbody>
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<td>Source</td>
<td>history</td>
<td>projections</td>
<td>history</td>
<td>projections</td>
<td>history</td>
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Share of installed electric generating capacity, Canada

<table>
<thead>
<tr>
<th>Year</th>
<th>2010</th>
<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
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<tbody>
<tr>
<td>Source</td>
<td>history</td>
<td>projections</td>
<td>history</td>
<td>projections</td>
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</tbody>
</table>
Installed electric generating capacity by source, Mexico and other OECD Americas

Share of installed electric generating capacity, Mexico and other OECD Americas

Installed capacity (gigawatts)

- 2010
- 2020
- 2030
- 2040
- 2050

Share of capacity (percentage)

- History
- Projections

Power sources:
- Other
- Solar
- Wind
- Hydroelectric
- Nuclear
- Natural gas
- Coal
OECD Europe electric generating capacity by source

Installed electric generating capacity by source, OECD Europe

gigawatts

<table>
<thead>
<tr>
<th>Year</th>
<th>Historic</th>
<th>Projected</th>
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<tr>
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<td>1,000</td>
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<td>2,500</td>
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<td>2040</td>
<td>2,500</td>
<td>3,000</td>
</tr>
<tr>
<td>2050</td>
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<td>3,500</td>
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Share of installed electric generating capacity, OECD Europe

percentage

<table>
<thead>
<tr>
<th>Year</th>
<th>Historic</th>
<th>Projected</th>
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<tbody>
<tr>
<td>2010</td>
<td>5%</td>
<td>10%</td>
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<tr>
<td>2020</td>
<td>10%</td>
<td>15%</td>
</tr>
<tr>
<td>2030</td>
<td>15%</td>
<td>20%</td>
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<tr>
<td>2040</td>
<td>20%</td>
<td>25%</td>
</tr>
<tr>
<td>2050</td>
<td>25%</td>
<td>30%</td>
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</tbody>
</table>
Japan electric generating capacity by source

Installed electric generating capacity by source, Japan

Share of installed electric generating capacity, Japan

history    projections

gigawatts

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

2010 2020 2030 2040 2050

history     projections

other solar wind hydroelectric nuclear natural gas coal
South Korea electric generating capacity by source

Installed electric generating capacity by source, South Korea

Share of installed electric generating capacity, South Korea

- history
- projections

- other
- solar
- wind
- hydroelectric
- nuclear
- natural gas
- coal
Australia and New Zealand electric generating capacity by source

Installed electric generating capacity by source, Australia and New Zealand

- **gigawatts**
  - History
  - Projections

- **2010**
- **2020**
- **2030**
- **2040**
- **2050**

Share of installed electric generating capacity, Australia and New Zealand

- **percentage**
  - **2010**
  - **2020**
  - **2030**
  - **2040**
  - **2050**

- **history**
- **projections**

- **battery storage**
- **solar**
- **wind**
- **hydroelectric**
- **natural gas**
- **coal**
Russia electric generating capacity by source

Installed electric generating capacity by source, Russia (gigawatts)

<table>
<thead>
<tr>
<th>Year</th>
<th>History</th>
<th>Projections</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td></td>
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<tr>
<td>2020</td>
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<tr>
<td>2050</td>
<td></td>
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</table>

Share of installed electric generating capacity, Russia (percentage)

- History
- Projections

- Other
- Solar
- Wind
- Hydroelectric
- Nuclear
- Natural gas
- Coal
Other non-OECD Europe and Eurasia electric generating capacity by source

Installed electric generating capacity by source, Other non-OECD Europe and Eurasia

<table>
<thead>
<tr>
<th>Year</th>
<th>History</th>
<th>Projections</th>
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<tbody>
<tr>
<td>2010</td>
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<tr>
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<td>250 GWe</td>
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<td>2030</td>
<td>250 GWe</td>
<td>300 GWe</td>
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<tr>
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<td>300 GWe</td>
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<td>2050</td>
<td>350 GWe</td>
<td>400 GWe</td>
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Share of installed electric generating capacity, Other non-OECD Europe and Eurasia

<table>
<thead>
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<th>Projections</th>
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<tr>
<td>2010</td>
<td>30%</td>
<td>25%</td>
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<tr>
<td>2020</td>
<td>35%</td>
<td>30%</td>
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<tr>
<td>2030</td>
<td>40%</td>
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<tr>
<td>2050</td>
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<td>45%</td>
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</table>

Bar graphs show:
- Installed electric generating capacity in gigawatts (GWe) for the years 2010 to 2050.
- Share of installed electric generating capacity by source, percentage for the years 2010 to 2050.

Sources:
- Other non-OECD Europe and Eurasia electric generating capacity by source
- Share of installed electric generating capacity, Other non-OECD Europe and Eurasia

www.eia.gov/ieo
China electric generating capacity by source

Installed electric generating capacity by source, China

Gigawatts:
- 2010: 500
- 2020: 1,000
- 2030: 1,500
- 2040: 2,000
- 2050: 2,500

Share of installed electric generating capacity, China

Percentage:
- 2010: 0%
- 2020: 10%
- 2030: 20%
- 2040: 30%
- 2050: 40%

Sources:
- History
- Projections

 Technologies:
- Battery storage
- Solar
- Wind
- Hydroelectric
- Nuclear
- Natural gas
- Coal
India electric generating capacity by source

Installed electric generating capacity by source, India

Share of installed electric generating capacity, India

- History
- Projections

Gigawatts

- 2010
- 2020
- 2030
- 2040
- 2050

Percentage

- 0%
- 10%
- 20%
- 30%
- 40%
- 50%
- 60%
- 70%
- 80%
- 90%
- 100%

battery storage
other
solar
wind
hydroelectric
nuclear
natural gas
coal

India electric generating capacity by source
Other non-OECD Asia electric generating capacity by source

Installed electric generating capacity by source, Other non-OECD Asia

History and projections

Share of installed electric generating capacity, Other non-OECD Asia

History and projections

Other non-OECD Asia electric generating capacity by source:
- Solar
- Wind
- Hydroelectric
- Nuclear
- Natural gas
- Coal
- Other
Middle East electric generating capacity by source

Installed electric generating capacity by source, Middle East

<table>
<thead>
<tr>
<th>Year</th>
<th>History</th>
<th>Projections</th>
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<tr>
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<tr>
<td>2050</td>
<td>500</td>
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Share of installed electric generating capacity, Middle East

<table>
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<th>Projections</th>
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<tr>
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<td>2020</td>
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<td>2030</td>
<td>30%</td>
<td>40%</td>
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<td>40%</td>
<td>50%</td>
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<tr>
<td>2050</td>
<td>50%</td>
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</table>

Sources: China, Saudi Arabia, Other

Key: coal, natural gas, nuclear, hydroelectric, wind, solar, other
Africa electric generating capacity by source

**Installed electric generating capacity by source, Africa**

- History
- Projections

**Share of installed electric generating capacity, Africa**

- Percentage

Sources:
- Other
- Solar
- Wind
- Hydroelectric
- Nuclear
- Natural gas
- Coal
Brazil electric generating capacity by source

Installed electric generating capacity by source, Brazil

Share of installed electric generating capacity, Brazil

gigawatts

history    projections

2010 2020 2030 2040 2050

percentage

2010 2020 2030 2040 2050

battery storage
other
solar
wind
hydroelectric
nuclear
natural gas
coal

installed electric generating capacity by source, Brazil

Brazil electric generating capacity by source

Installed electric generating capacity by source, Brazil

Share of installed electric generating capacity, Brazil

gigawatts

history    projections

2010 2020 2030 2040 2050

percentage

2010 2020 2030 2040 2050

battery storage
other
solar
wind
hydroelectric
nuclear
natural gas
coal
Other non-OECD Americas electric generating capacity by source

Installed electric generating capacity by source, Other non-OECD Americas
gigawatts

<table>
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<tr>
<th>Year</th>
<th>History</th>
<th>Projections</th>
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Share of installed electric generating capacity, Other non-OECD Americas
percentage

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Sources: EIA, International Energy Outlook 2021