The J-POWER Group’s Domestic and Overseas Business Development

Since its foundation in 1952, the J-POWER Group has developed power generation facilities in and outside Japan. As of March 2020, these power generation facilities have grown to a capacity of approximately 24 GW, of which domestic power generation facilities account for around 17 GW (owned capacity basis) and overseas facilities for 7 GW (owned capacity basis).

In Japan, the Group has renewable energy facilities (including hydroelectric, wind and geothermal) and thermal power generation facilities in a total of 97 locations nationwide. Furthermore, the Group has electric power transmission and substation facilities, including cross-regional interconnection lines and a frequency converter station, supporting part of the wide-area power distribution network.

Overseas, the Group has been engaged in the overseas consulting business for more than 50 years, with a track record of 361 projects in 64 countries and regions. We entered the overseas power generation business in earnest in 2000. Today, we have commenced operations at power generation facilities in five countries and regions, including Thailand, other Asian countries, and the United States.

Power Generation Capacity in Operation (Owned Capacity Basis)

<table>
<thead>
<tr>
<th>Facility Type</th>
<th>Number of Locations</th>
<th>Total Capacity (MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroelectric Power</td>
<td>60</td>
<td>8,560</td>
</tr>
<tr>
<td>Thermal Power</td>
<td>12</td>
<td>8,278</td>
</tr>
<tr>
<td>Wind Power</td>
<td>24</td>
<td>531</td>
</tr>
<tr>
<td>Geothermal Power</td>
<td>1</td>
<td>23</td>
</tr>
</tbody>
</table>

Transmission and Transformation Facilities

<table>
<thead>
<tr>
<th>Category</th>
<th>Quantity</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission Lines</td>
<td></td>
<td>2,404.6 km</td>
</tr>
<tr>
<td>AC power transmission lines</td>
<td></td>
<td>2,137.4 km</td>
</tr>
<tr>
<td>DC power transmission lines</td>
<td></td>
<td>267.2 km</td>
</tr>
<tr>
<td>Substations</td>
<td>4</td>
<td>4,301 MVA</td>
</tr>
<tr>
<td>Frequency Converter Station</td>
<td>1</td>
<td>300 MW</td>
</tr>
<tr>
<td>AC/DC Converter Stations</td>
<td>4</td>
<td>2,000 MW</td>
</tr>
</tbody>
</table>

Wireless Communication Facilities (circuit length)

<table>
<thead>
<tr>
<th>Category</th>
<th>Quantity</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>5,833 km</td>
</tr>
</tbody>
</table>
The J-POWER Group’s Energy Mix

Renewable energy accounts for about 40% of the J-POWER Group’s global power generation capacity, gas-fired thermal power for about 20%, and coal-fired thermal for about 40%. The Group maintains a well-balanced energy mix that is not over-reliant on any one power source.

The J-POWER Group’s Global Energy Mix

- Renewables (hydroelectric, wind, and geothermal): 39.5%
- Gas-fired thermal power: 23.1%
- Coal-fired thermal power: 37.3%

Overseas Power Generation Business

- In operation: 5 countries/regions, 34 projects, 6,893 MW (owned capacity)
- Of which: Majority owned projects: 1 country, 9 projects, 2,376 MW (owned capacity)
- Under construction/development: 3 countries, 4 projects, 2,182 MW (owned capacity)

Overseas consulting service projects: 64 countries/regions, 361 projects

Europe

Overseas power generation business
- In operation: 1 country, 1 project, 214 MW

Consulting service projects
- 14 countries, 21 projects

Asia

Overseas power generation business
- In operation: 4 countries/regions, 4,877 MW
- Under construction: 1 country, 1 project, 680 MW

Consulting service projects
- 21 countries/regions, 248 projects

North America

Overseas power generation business
- In operation: 1 country, 2,016 MW
- Under construction: 1 country, 1 project, 1,200 MW
- Under development: 1 country, 1 project, 88 MW

Consulting service project: 1 country, 1 project

Middle East/Africa

Consulting service projects
- 15 countries, 42 projects

Central and South America

Consulting service projects
- 13 countries, 49 projects

(As of March 31, 2020)