Session:

Regional development
How can benefits and costs be shared?

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For more information:  www.hydropower.org/congress
Water Resource Utilization Planning of Upstream Ayeyawady

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General Description of the River Basin

Ayeyawady River:
Total length: 2,714km  Area: 413,710km²

Upper Ayeyawady (above Myitkyina):
4610 cms, 144.6 billion m³

Nmai Hka:
Length 353km, Water Head : 1000m
Theory reserves : 12200MW  106.9TW·h

Mali Hka:
Length 377km, Water Head 4820m
Theory reserves : 6150MW  53.9TW·h

Total: 18540MW, 162.4TW·h
Objectives

− Abundant water power resources
− social and economical development requirements of Myanmar
− development mission of river basin: mainly for power generation, flood control for Myitkyina city and improve the downstream shipping and irrigation, etc.
Power Demand Forecast

National electricity load forecasting

<table>
<thead>
<tr>
<th>Item</th>
<th>2015</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual electricity generation (0.1 billion kW·h)</td>
<td>123</td>
<td>178</td>
</tr>
<tr>
<td>Growth rate(%)</td>
<td>8.0</td>
<td>7.6</td>
</tr>
<tr>
<td>Peak Load (MW)</td>
<td>2417</td>
<td>3634</td>
</tr>
<tr>
<td>Growth rate(%)</td>
<td>8.5</td>
<td>8.5</td>
</tr>
</tbody>
</table>

Install capacity schedule of main power grid, MW

<table>
<thead>
<tr>
<th>Categories</th>
<th>2015</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydropower</td>
<td>2631</td>
<td>4358</td>
</tr>
<tr>
<td>Thermal power</td>
<td>1189</td>
<td>1317</td>
</tr>
<tr>
<td>Total</td>
<td>3820</td>
<td>5675</td>
</tr>
</tbody>
</table>
Inter-government Energy Cooperation Agreement Framework

In 2009, National Energy Resource Bureau of PRC and Myanmar’s Ministry of Electric Power No.1 entered into an agreement: “The Myanmar desires to sell its hydropower resources to the Chinese and the sale of hydropower will increase year by year.
Flood Control for Myitkyina City

- over 30 years (since 1971), Myitkyina City has suffered from flood damages for about 7 times in different degrees

- improve the flood control capability of Myitkyina City to the standard of 20-year return period
Other Benefits

- Providing employment opportunities
- Improving the infrastructure construction
Other Benefits

- Reducing Carbon emission
- Boosting economic development
- Supporting the industrialization of the country