# Myanmar: Power Transmission and Distribution Improvement Project

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Power Transmission and Distribution Improvement Project</th>
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<tbody>
<tr>
<td>Project Number</td>
<td>46390-001</td>
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<tr>
<td>Country</td>
<td>Myanmar</td>
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<tr>
<td>Project Status</td>
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<td>Project Type / Modality of Assistance</td>
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<tr>
<td>Source of Funding / Amount</td>
<td>TA 8342-MYA: Power Transmission and Distribution Improvement Project</td>
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<td>Japan Fund for Poverty Reduction</td>
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<td>TA 8342-MYA: Power Transmission and Distribution Improvement Project (Supplementary)</td>
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<td>TA 8342-MYA: Power Transmission and Distribution Improvement Project (Supplementary)</td>
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**Strategic Agendas**
- Environmentally sustainable growth
- Inclusive economic growth

**Drivers of Change**
- Governance and capacity development
- Partnerships
- Private sector development

**Sector / Subsector**
- Energy - Electricity transmission and distribution

**Gender Equity and Mainstreaming**
- No gender elements

**Description**
Even though electricity consumption in Myanmar has doubled during the last 10 year, in 2011, total electricity consumption was 6,312 gigawatt-hour. With a population of about 60 million, Myanmar’s per capita electricity consumption was only 100 kilowatt-hour (kWh) per year, which was the lowest among ASEAN 10 countries. The low national average per capita electricity consumption is due to the low electrification rate, low industrial development and lack of investment.

The country’s average electrification (defined as the number of electrified household connected to the grid over the total number of household) grew from about 16% in 2006 to 26% in 2011. Yangon City has the highest electrification ratio (67%), followed by Nay Pyi Taw (54%), Kayar (37%) and Mandalay (31%). The remaining rural areas are still poorly electrified averaging at about 16%. Currently, Myanmar Electric Power Enterprise (MEPE) under the Ministry of Electric Power (MOPE) is responsible for the development and implementation of transmission network, covering the voltage levels of 66 kilovolt (kV), 132 kV and 230 kV. Distribution systems consist of lower voltage level, namely: 33 kV, 11 kV, 6.6 kV and 0.4 kV. Two distribution enterprises operate the distribution systems. The Yangon City Electric Supply Board (YESB) is responsible for the supply of electricity to consumers in Yangon City. The Electric Supply Enterprise (ESE) covers the rest of the country comprising 13 states and divisions, including off-grid generation and distribution. It was reported that technical and non-technical losses of the distribution system were as high as 30% in 2003 and reduced to 25% in 2011, which is the highest among Association of Southeast Asian Nations 10 countries.

These high losses and low electrification ratio will require a comprehensive study for improvement of transmission and distribution network in Myanmar. This project preparatory technical assistance (PPTA) will focus on the rehabilitation of existing transmission and distribution network and expansion in next 5 years to increase supply of electricity and electrification ratio in the country.

**Project Rationale and Linkage to Country/Regional Strategy**
The Government of the Republic of the Union of Myanmar has requested the Asian Development Bank (ADB) a project preparatory technical assistance (PPTA) to conduct due diligence and prepare the relevant project documents for an investment project prepare a feasibility study for rehabilitation and expansion of transmission and distribution networks in Myanmar.

The project will prepare a comprehensive investment plan for the improvement of the power transmission and distribution systems in Myanmar and prepare a feasibility study for rehabilitation and expansion of existing system. The PPTA would: (i) assess the power demand projections and suggest expansion plan with investment requirements; (ii) assess the losses of Yangon City Electricity Supply Board (YESB) and Electricity Supply Enterprise (ESE) and its loss reduction program, and identify measures for loss reduction; (iii) assess capacity and staff skills in the power sector, identify training needs, and prepare short and long term training plan; (iv) identify an urgent rehabilitation and expansion of transmission and distribution projects. For the identified projects, the PPTA will undertake a feasibility study to (i) propose the project scope; (ii) prepare detailed engineering design and bidding documents; (iii) undertake the procurement and implementation capacity assessment of executing agencies (EAs) and implementing agencies (IAs); (iv) prepare cost estimates; (v) undertake economic and financial analyses; and (vi) complete social and environmental safeguards requirements.

**Impact**

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### Project Outcome

#### Description of Outcome

#### Progress Toward Outcome

#### Implementation Progress

#### Status of Project Outputs

#### Geographical Location
Summary of Environmental and Social Aspects

Environmental Aspects

Involuntary Resettlement

Indigenous Peoples

Stakeholder Communication, Participation, and Consultation

During Project Design

During Project Implementation During PPTA stage, the consultation and participation process will involve a stakeholder analysis followed by subsequent consultations with various groups. It is planned to conduct consultations at the household and community level, national level government officials, development partners, nongovernmental organizations, and commune- and village- level officials and beneficiaries. A series of focus group discussions will be undertaken as part of the socio-economic analysis.

Business Opportunities

Consulting Services TA completed on 31 December 2018.

Responsible ADB Officer Duy-Thanh Bui

Responsible ADB Department Southeast Asia Department

Responsible ADB Division Energy Division, SERD

Executing Agencies Ministry of Electricity and Energy No. B-07, Yadana Shwe Pyi St., Zaya Theidi Ward, Nay Pyi Taw

Timetable

<table>
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<tr>
<th>Concept Clearance</th>
<th>Fact Finding</th>
<th>MRM</th>
<th>Approval</th>
<th>Last Review Mission</th>
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<td>22 Mar 2013</td>
<td></td>
<td>15 Jun 2019</td>
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TA 8342-MYA

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Project Page Project Page https://www.adb.org/projects/46390-001/main

Request for Information Request for Information http://www.adb.org/forms/request-information-form?subject=46390-001

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