The Project for Capacity Development of Power Sector Development Planning

Japan International Cooperation Agency
NEWJEC Inc.
The Kansai Electric Power Co., Inc.
### Outline of the Project

<table>
<thead>
<tr>
<th>Item</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Period</strong></td>
<td>From August 2016 to January 2019 (Total 30 months)</td>
</tr>
</tbody>
</table>
| **Scope of Target Facilities** | ◆ Power generation facilities under the bulk power system  
 ◆ Transmission and substation facilities over 66kV.                                                                                      |
| **Counterparts**          | DEPP : Department of Electric Power Planning  
 PTSCD : Power Transmission and System Control Department                                                                                     |
| **Project Outline**       | Purpose of the Project is to facilitate the development of electric power sector based on National Electricity Master Plan (NEMP) by enhancing the following capacity of MOEE;  
  ➢ Institutional mechanism of reviewing, updating and utilizing NEMP  
  ➢ Information and data management for NEMP  
  ➢ Formulation and update of NEMP studies                                                                                                           |
Flow Chart of the Project

1st Cycle
(under the Technical Transfer by JICA Experts)

2nd Cycle
(by MOEE’s Initiative)

Capacity
Baseline
after 1st Cycle
after 2nd cycle

Preparatory Works
(3 months)

Establishment of Project Implementation Structure
Baseline Survey

NEMP Update
(12 months x 2 cycles)

Data Collection Survey for each WG
Power Demand Forecast
Primary Energy
Economic and Financial Analysis
Environmental and Social Considerations
Power Generation Development Planning
Power System Planning
Preparation of Short / Medium / Long Term Investment Plan
Formulation of NEMP

Recommendations
(3 months)

Preparation of Reports and Manuals
Preparation of the Recommendations on Sustainable Mechanism
Project Implementation Structure (to be confirmed)

JICA Expert Team
- Long-term Resident Expert (JICA)
- Short-term Experts (Consultants)
  - Team Leader/Power Sector Planning
  - Power Generation Development Planning
  - Power System Planning
  - Power Demand Forecast
  - Primary Energy / Thermal Power
  - Economic and Financial Analysis
  - Data Management
  - Institutional Facilitation
  - Environmental and Social Consideration
  - Project Coordinator / Monitoring

MOEE Project Team
- Project Chairperson
- Project Director (DEPP)
- Project Manager (DEPP)
- Project Coordinator (PTSCD)
- Working Group Members
  - Power Demand Forecast
  - Power Generation Development Plan
  - Power System Development Plan
  - Environmental and Social Considerations
  - Economic and Financial Analysis
  - Institutional Facilitation and Data Management

Milestones for the Project Schedule (to be confirmed)

<table>
<thead>
<tr>
<th>Date</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep. 2016</td>
<td>Kick-off Meeting</td>
</tr>
<tr>
<td>Feb. 2017</td>
<td>1st NEMP Seminar (Presentation of Power Generation Development Planning)</td>
</tr>
<tr>
<td>Aug. 2017</td>
<td>2nd NEMP Seminar (Presentation of updated NEMP in 1st Cycle)</td>
</tr>
<tr>
<td>Aug. 2018</td>
<td>3rd NEMP Seminar (Presentation of updated NEMP in 2nd Cycle)</td>
</tr>
<tr>
<td>Dec. 2018</td>
<td>Closing Seminar</td>
</tr>
</tbody>
</table>
Linkage with IFC’s work

Points to be exchanged further:

- **Coordination in MP review 1st Cycle**
  - Data and assumptions to be used
  - Scenarios for hydropower development (especially views on very large scale hydro along main river)
  - Capacity development items

- **Coordination in MP review 2nd Cycle**
  - Further incorporation of result of SEA study by IFC, especially likelihood of obtaining public acceptance for each development site