

Pillar 1: Energy Demand/Supply Balance and Infrastructure

CAREC Energy Sector Coordination Committee

**23-25 May 2011
Baku**

Levan Mtchedlishvili
Energy Specialist, ADB
lmtchedlishvili@adb.org



CAREC Energy Sector Action Plan is structured around three strategic pillars:

1. Energy Demand/Supply Balance and Infrastructure.
2. Regional Dispatch and Regulatory Development.
3. Energy-Water Linkages.

ADB financed Regional Technical Assistance (RETA) addresses Pillar 1 issues

RETA: Power Sector Regional Master Plan

- Endorsed by SOM and 8th Ministerial in October 2009
- Funding approved by ADB in June 2010
- Consultant (Fichtner) selected and contracted in November 2010
- Implementation commenced in December 2010
- Implementation is supervised by ESCC Pillar 1 Subcommittee
- Completion expected in December 2011

Power Sector Regional Master Plan Outputs

- i. Identification of bankable investment projects for optimizing transmission and generation expansion between Kazakhstan, Kyrgyz Republic, Tajikistan, Uzbekistan and Afghanistan
- ii. Preparation of a technical study on Afghanistan interconnection to CAR power system
- iii. Development of medium-term (5 year) priority projects list for investments under CAREC

Detailed Tasks of the Master Plan

- Identify existing demand and 20-year growth projections at country level
- Assess condition of existing generation and transmission assets
- Review and assess current planned new and rehabilitation projects
- Identify alternatives including renewable energy & energy efficiency options and the efficient use of power
- Assess adequacy of existing planning software. Procure new software and hardware as appropriate. Train staff in its application
- Conduct optimization on a regional basis considering environmental, social, economic, financial, technical, and security issues
- Assess technical design of existing CAR system; analyze the technical and economic impact caused by joining of a new or withdrawal of an existing member(s)
- Analyze system technical requirements for Afghanistan interconnection to CAR system

Activities as of Today

- A comprehensive questionnaire was prepared and distributed in all four Central Asian countries, on which data collection is based.
- A follow up visits to each country were carried out where the structure and scope of the project were explained and the major milestones were specified.
- Discussions on the required information and data were held and additional forms for data collection were handed to the national organizations.
- In March 2011 the first Pillar 1 Subcommittee meeting was held in Almaty where consultants presented the Inception Report.

Summary of the 1st Subcommittee Meeting under Pillar 1

The Participants approved the methodology and implementation arrangements presented by Fichtner and agreed that:

- Energy security is top priority, although might be defined differently for each country.
- All participants will put maximum effort to provide the required data for the study.
- Fichtner will develop a list of project selection criteria.
- Additional staff resources will be added to analyze the system stability and emergency automation.
- A decision on the selection of the planning software will be made by the participants taking into account analysis and recommendations by Fichtner.
- During the preparation of project portfolios, construction of national HVTL will be considered to enhance reliability.

Contents of the Interim Report

- Demand forecast
- Assessment of existing generation and transmission facilities
- Assessment of ongoing generation and transmission projects
- Identification of alternatives including renewable generation and demand side management
- Assessment of planning software
- Assessment of power trading arrangements

Planned Activities for 2011

Activity	Date
Completion of the Interim Report	June 2011
Quarterly Progress Report No. 2	Beginning of July 2011
Pillar 1 2nd Subcommittee Meeting - Presentation of Interim Report	Mid of July 2011
Completion of Draft Final Report	End of September 2011
ESCC Meeting - Presentation of Draft Final Report	Beginning of October 2011
Completion of the Final Report	December 2011

Thank You