

# Energy Sector Coordinating Committee Updates

Consultation Meeting with the CAREC NFPs

27-28 September 2013

Bangkok, Thailand

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## **ESCC Meetings since 2012 MC in Wuhan, PRC**

- **15<sup>th</sup> ESCC Meeting on 6-7 June 2013 in Ashgabat, Turkmenistan**
- **Capacity Building and 16<sup>th</sup> ESCC Meeting on 10-12 September 2013 in Almaty, Kazakhstan**

## **ESCC Work Plan 2013-2015**

- **Approved during 11<sup>th</sup> MC in October 2012 (Wuhan, PRC)**
- **Roadmap for energy sector growth in the CAREC region with six key elements:**
  - **Element 1. Developing the Central Asia – South Asia Energy Corridor**
  - **Element 2. Resolving Regional Energy Dispatch and Trade Issues**
  - **Element 3. Managing Energy-Water Linkages**
  - **Element 4. Mobilizing Funds for Building Energy Assets**
  - **Element 5. Implementation of Energy Sector Priority Projects**
  - **Element 6. Capacity Building and Knowledge Management**

# Energy Work Plan 2013-2015 Updates

## **Element 1: Developing the Central Asia – South Asia Energy Corridor**

- **World Bank presented updates on CASA 1000 (transmission linkages of KGZ, TAJ, AFG, PAK via a dedicated line); and**
- **Asian Development Bank on TUTAP (transmission linkage of Central Asia to PAK via proposed AFG grid).**

# Energy Work Plan 2013-2015 Updates

## **Element 2: Resolving Regional Energy Dispatch and Trade Issues**

- Meeting discussed areas for further focus concerning improving regional electricity trade and specific system operation aspects.
- WB suggested to conduct discussions with members of the CAPS to identify specific areas for further collaboration.
  - Phase I – Oct 2013 to Feb 2014
  - Phase II – Mar 2014 to Jun 2015

# Energy Work Plan 2013-2015 Updates

## Element 3: Managing Energy-Water Linkages

- **WB presented updates on the following activities:**
  - **Energy Sector Vulnerability to Climate Change; and**
  - **Central Asia Knowledge Portal**
- **WB to present information on other activities identified in June 2013 in subsequent ESCC meetings.**

# Energy Work Plan 2013-2015 Updates

## **Element 4: Mobilizing Funds for Building Energy Assets**

- **Endorsed the proposed TA by ADB of the CAREC Power Sector Financing Roadmap**
- **ESCC members requested the Financing Roadmap to be undertaken on an urgent basis, with due interaction with each country and focused on the financing possibilities.**
- **The Inception Report is expected in the second quarter of 2014.**

# Energy Work Plan 2013-2015 Updates

## **Element 5: Implementation of Energy Sector Priority Projects**

- **Agreed to the draft MTPP list, including reservations by UZB on certain projects, for consideration by the SOM/MC and subject to the inclusion of the following projects:**
  - **Construction of Shurobskaya Hydropower Plant (TAJ);**
  - **Kunar Hydro Power Assessment 1 and 2 (AFG); and**
  - **500 kV line Datka-Khudjand (477 km), with Tajik network transferring Kyrgyz exports to Sangtuda (KGZ)**

**Table 1. Generation (including renewable energy)**

<b>Country</b>	<b>Project Name</b>	<b>Total Amount (\$ million)</b>	<b>Project Start Year</b>	<b>Remarks</b>
UZB	Takhiatash CCGT Power Generation Project	300	2013	510 MW
UZB	Extension of Talimajaran TPP with construction of two combined cycle gas turbine units	1280	2013	450 MW
UZB	Extension of Navoly TPP with construction of a combined cycle gas turbine unit	516	2013	450 MW
UZB	Samarkand Solar Power Project	310	2013	100 MW
TAJ	Golovnaya HPP Rehabilitation Project	150	2013	240 MW
TAJ	Construction of Nurabadsкая Hydropower Plant 2	400	2014	200 MW
TAJ	Construction of Shurobskaya Thermal Power Station (Phase 1)	600	2014	300 MW
TAJ	Nurek HPP Rehabilitation Project	900	2015	3000 MW
TAJ	Kairakum HPP Rehabilitation Project	120	2014	150 MW
<b>TAJ</b>	<b>Construction of Shurobskaya Hydropower Plant</b>			
<b>AFG</b>	<b>Kunar Hydropower Assessment 1 and 2</b>			
UZB	Solar Power Development Project II	300	2015	
KAZ	Modernization of Shardara Hydropower Plant	102	2013	
KGZ	Toktogul Rehabilitation Phase 2	190	2014	
KGZ	Bishkek Combined Heat and Power Plant	380	TBA	Chinese investment
TKM	Zerger 400MW	290	2014	

**Note:** Reservation from UZB: With regard to the construction of the new medium-capacity HPPs (Nurabadsкая HPP 2 and Shurobskaya HPP, Phase 1), they should be excluded from consideration, until the complete information is provided on their parameters and transboundary impact, necessary for the making of a concerted decision.



Table 2. Transmission

Country	Project Name	Total Amount (\$ million)	Project Start Year	Remarks
AFG	Energy Sector Development Investment Program: Tranche 5	53	2013	500 kV substation at Dashte Awlan (NE AFG)
AFG	North-South Power Transmission Enhancement Project (NEPS II)	220	2013	225 km 500 kV line between Dashte Alwan and Kabul + 500 kV substation in Kabul
AFG	Energy MFF II: Tranche 1	400	2014	TKM 500kV extension to Pul-e-Khumri, 200 MW back-to-back convertor station at Dashte Alwan
AFG	Energy MFF II: Tranche 2	250	2015	A 350 km 220 kV line between Kabul and Kandahar along with 4 substations
TAJ	Dushanbe-Obi Garm 500 kV Power Transmission Project	130	2014	2 x 100km 500 kV line
TAJ	Rehabilitation of Regar 500 kV Substation Project	32	2013	Replacement of two autotransformers, 2x801 MVA
TAJ	Construction of Obi Garm 500 kV Switchyard	80	2014	501 MVA
TAJ	Regar-Sangtuda1 500 kV Power Transmission Project	50	2013	115km 500 kV line
UZB	Transmission Improvement Project	200	2014	Takhiatash-Burunni-Ellikala 220kV (Ellikala-Karakal 500kV)
KAZ	KAZ Transmission Project	215	2015	
REG	Central Asia - South Asia Power Transmission System (CASA 1000)	270	2014	TAJ: P = 1300 MW
				KGZ: 500kV line Datka-Khudjand (477km), with Tajik network transferring Kyrgyz exports to Sangtuda
		300	2014	AFG: A 750km high voltage direct current transmission system between TAJ and PAK via AFG together with associated converter stations at Sangtuda (1300MW), Kabul (300MW) and Peshawar (1300MW)
Note:	1. The MTPP lists projects for which financing should be approved in 2013-2015. The MTPP includes generation (50MW or above) and transmission (220kV or above) projects in CAREC countries with interconnected grid only.			
	2. Reservation from UZB: Considering that there is no consensus and any positive international expert assessment of the Rogun HPP construction project, it is inappropriate to include the project in the proposed Investment Plan with a 500kV substation on Rogun river (Obi Garm SS), which are intended for the output of energy from the Rogun HPP, the construction of which on a transboundary watercourse is disputable.			
	3. During the 16th CAREC-ESCC meeting, UZB also expressed reservation on the inclusion of CASA 1000 in the MTPP list of projects on the demerits of its impact to the environment.			

# Energy Work Plan 2013-2015 Updates

## **Element 6: Capacity Building and Knowledge Management**

- Appreciated the completed, on-going and planned knowledge transfer and capacity building activities of USAID-RESET project.
- Endorsed the proposed energy sector capacity building workshop and knowledge framework program for 2013-2015 under the CAREC Institute umbrella which will undertake one substantial event per year for 2014-2015.
- Improve the dissemination of ESCC member country studies through the CAREC ESCC website.
- Improve coordination with other agencies such as the UN family, International Energy Agency, Energy Charter regarding capacity building and energy sector knowledge events.

# Thank you!

16<sup>th</sup> CAREC-ESCC meeting materials available at:

<http://www.carecprogram.org/index.php?page=16th-carec-energy-sector-coordinating-committee-meeting>

