

Session 1 - Energy Sector: Progress Report and Work Plan

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Output Indicators Progress on Conventional Energy

		2013		
Indicator	Unit	(Baseline)	2014 ¹	2015 ²
Transmission lines installed or upgraded transmission lines	Km	612	1,150	2,073
Increased energy generation capacity	MW	300	600	736
Rehabilitated generation capacity	MW	0	520	585
New substations	MVA	250	4,200	4,629
Upgraded substations	MVA	400	5,200	5,551

¹ Based on data received from AFG, KAZ, MON, PAK and UZB, as of 11 September 2015.

² Based on data received from AZB, MON, and UZB as of 11 April 2016.



Output Indicators Progress on New Energy

		2014			
Indicator		Unit	(Baseline) ²	2015 ²	
Wind Power Installed	Capacity	MW net	61	111	
	Generation	MWh	122.5	122.5	
Solar Power Installed	Capacity	MW net	24	44	
	Generation	MWh			
Electric vehicle Adoption ¹		Nos. ¹		20,0004	
LED public lighting ¹		Km of roads ¹	987	1,188	
		No. of Units ³	500,294	733,502	
Energy Efficiency Savings		MWh	23,824	9,965	

¹ Targets will not be set initially for these indicators. The ESCC will instead monitor progress against these indicators in the coming years and decide whether targets should be set in the future.

- ² Based on data received from AZB, MON, and UZB as of 11 April 2016.
- ³ Based on data received from UZB as of 11 April 2016.

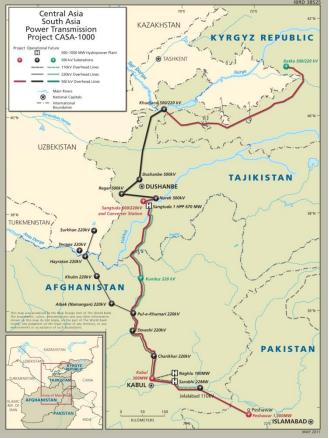
⁴ Mongolia has about 200,000 hybrid cars and about 20,000 was added in 2015.



CASA 1000: E-CASAREM Projects Milestone



Launched on 12 May 2016 in Dushanbe, Tajikistan Expected Project Completion moved to 2020 from 2018



TAPI: E-CASAREM Projects Milestone



- ✓ Turkmengas was selected as consortium leader on August 2015
- ✓ Shareholder's Agreement was signed on December 2015
- ✓ Investment Agreement was signed on April 2016



TUTAP: Benefits





- Uzbekistan to Afghanistan
 Completed 2009: 300 MW, 220 kV, 500 km
 Savings: \$320 million
 - Tajikistan to Afghanistan
 - Completed Oct 2011: 300MW, 220kv, 175km (in AFG)
 - Savings: \$170 million
- Turkmenistan to Afghanistan
 Expected Completion: 2019-2025
 Implementation of the 500 kV has begun
 Savings: \$220-400 million



New TUTAP Component





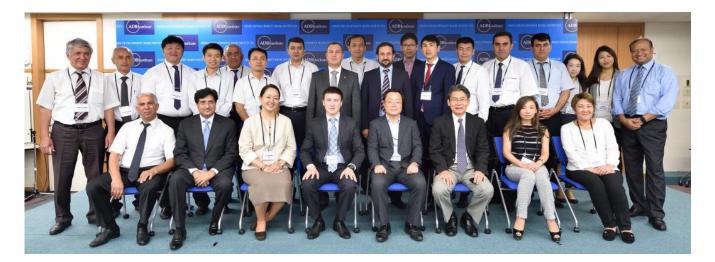
Capacity Building and Knowledge Management (2016-2020)

Knowledge sharing: smart meters, project management, independent regulation, tariff policy, forecasting, planning and energy efficiency

Technology adoption: smart meters, solar power, battery based storage, electric vehicles and energy efficiency

Regulatory issues: framework for independent regulation, tariff setting for time-ofuse tariffs, pre-paid meters, IPP tariffs and benchmarking

Training: demand management, forecasting, solar power, battery storage, energy efficiency and management of large projects





Moving Forward Promoting and Prioritizing New Technologies

Develop CAREC new technology roadmap

Unify CAREC as a regional market for new technology

- Regulator's Network
- Energy Investor's Forum

Technology selection

- Capacity Development
- Demonstration Projects



ADB

Technical Assistance Report

Project Number: 49412-001 Regional Capacity Development Technical Assistance (R-CDTA) June 2016

Off-Grid Solar Kit—Demonstration of A New Technology Option to Access Electricity

Leapfrogging of Clean Technology in CAREC Countries Technical Assistance Concept Paper

Moving Forward Workshop and Trainings

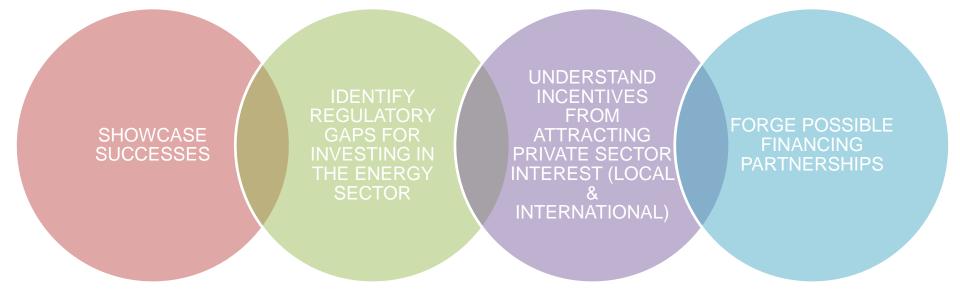
- Demonstration of Off-Grid Renewable Technology: Flinders Island and King Island in partnership with Hydro Tasmania of Australia
- Capacity Development: lessons from electric bus fleet operation in London City, Beijing or Tokyo
- New Technology Training and Energy Forecasting: training on system planning and forecasting jointly organized with Argonne National Lab including a visit to Tesla electric car and battery factory



1st CAREC ENERGY INVESTMENT FORUM

24 October 2016, Serena Hotel, Islamabad, Pakistan

The 1st ENERGY INVESTMENT FORUM (EIF) seeks to provide CAREC countries the opportunity to:





EIF PROGRAM AT A GLANCE

The EIF will highlight investment opportunities in the CAREC countries by bringing together key government officials, project developers/sponsors, project financiers, equipment manufacturers, and EPC contractors.





For Guidance of the Senior Officials



Senior Officials' Meeting on Central Asia Regional Economic Cooperation



For Guidance of the Senior Officials

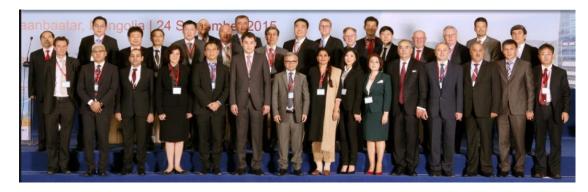


Delivering the Paris Agreement

- ESCC actions to deliver Intended Nationally Determined Contributions (INDC)
- Assess the adequacy of current mitigation and adaptation training programs for ESCC
- Recognize the need for climate impact mapping of CAREC countries



Support for the 1st Energy Investment Forum (EIF)



- Participation of senior delegates
- Possible partnerships with Board of
 Investments (or equivalent) of each country
- Endorse List of Priority Project
- **Support** promotion of EIF related activities (website, social media, etc.)
- Nominate EIF Focal in each country

