

## Session 1 - Energy Sector: Progress Report and Work Plan

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# Output Indicators Progress on Conventional Energy

		2013		
Indicator	Unit	(Baseline)	2014 <sup>1</sup>	2015 <sup>2</sup>
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

<sup>&</sup>lt;sup>1</sup> Based on data received from AFG, KAZ, MON, PAK and UZB, as of 11 September 2015.



<sup>&</sup>lt;sup>2</sup> Based on data received from AZB, MON, and UZB as of 11 April 2016.

# Output Indicators Progress on New Energy

		2014			
Indicator		Unit	(Baseline) <sup>2</sup>	2015 <sup>2</sup>	
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 <sup>1</sup>		Nos. <sup>1</sup>		20,000 <sup>4</sup>	
LED public lighting <sup>1</sup>		Km of roads <sup>1</sup>	987	1,188	
		No. of Units <sup>3</sup>	500,294	733,502	
Energy Efficiency Savings		MWh	23,824	9,965	

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> Based on data received from AZB, MON, and UZB as of 11 April 2016.

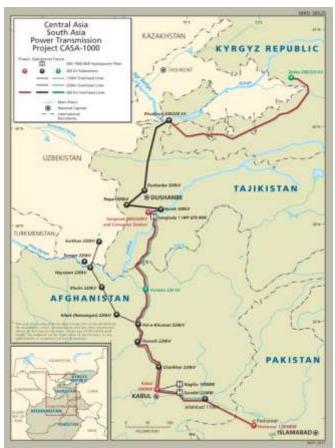
<sup>&</sup>lt;sup>3</sup> Based on data received from UZB as of 11 April 2016.

<sup>&</sup>lt;sup>4</sup> Mongolia has about 200,000 hybrid cars and about 20,000 was added in 2015.

### CASA 1000: E-CASAREM Projects Milestone

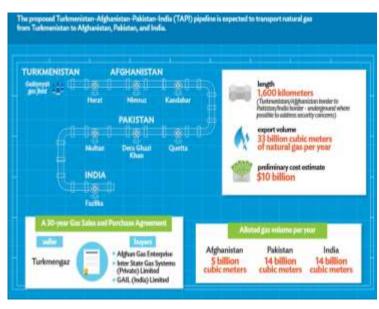


Launched on 12 May 2016 in Dushanbe, Tajikistan Expected Project Completion



## 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-of-use 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



Leapfrogging of Clean Technology in CAREC Countries Technical Assistance Concept Paper



# **Moving Forward**Workshop and Trainings

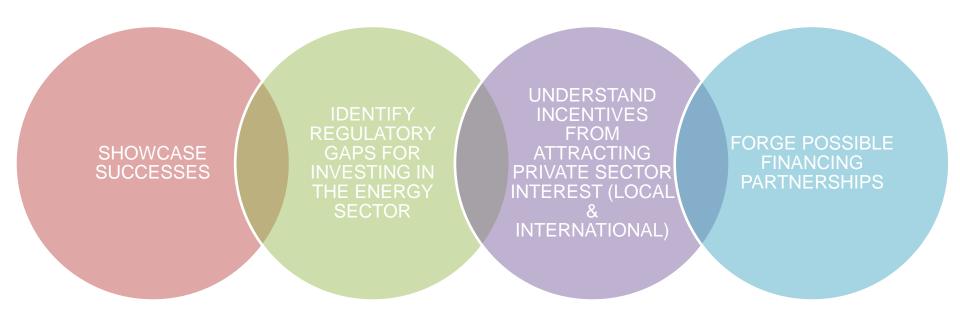
- Demonstration of Off-Grid Renewable Technology: Flinders Island and King Island in partnership with Hydro Tasmania of Australia
- Capacity Development: lessons from electric bus fleet operation in London City, Beijing or Tokyo
- New Technology Training and Energy Forecasting: training on system planning 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 1<sup>st</sup> 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.

Governments'
Investment
Promotion Thrusts:
Senior energy
government officials
will highlight
incentives their
governments have
put in place to attract
investments in
general, and in the

energy sector.

Session 2

Investing in CAREC Countries: Private entities will share their experiences on successful investments in the CAREC countries.

Session

Financing Energy
Projects: A panel
discussion
highlighting what
project financiers
seek in financing
projects in the region.



#### 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 1<sup>st</sup> 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

