# 12th MEETING OF THE TASK FORCE ON REGIONAL ENERGY COOPERATION IN CENTRAL AND SOUTH ASIA



# Afghanistan Energy Sector

- The Government of Afghanistan corporatized the National Electricity Service Department Da AFGHANISTAN BRESHNA MOSSASA (DABM) into an independent state owned utility as such, all assets, staff and other Rights and Obligations of (DABM) were transferred to DA AFGHANISTAN BRESHNA SHERKAT (DABS).
- DABS is an independent and autonomous IOO% State-owned corporation, incorporated on 4<sup>th</sup> May 2008 (15 Saur 1387). DABS has been established under The Corporations and Limited Liabilities Law of the Islamic Republic of Afghanistan (IROA). DABS have sole authority to run its operations and appoint the required staff according to its legal framework (Articles of Incorporation, Bylaws)



### Afghanistan on Grid Generation / Transmission Profile



# **Afghanistan Electricity Generation Potential**

Afghanistan has unique untapped potential to generate enormous amount of Electricity from Renewable Energy Resources:

Solar Energy	222,000 MW
Wind Energy	67,000 MW
Hydro Energy	23,000 MW

- With the Regional Energy and Natural Resources Cooperation this potential can be harnessed timely for the benefit of the entire region.
- Enabling Policies Regulatory Framework and Matching investments are the need of the hour.



#### DABS Electrical energy import from Neighboring Countries (Figures in million kWh)



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## DABS Growth of Customers





Industries 0.11%



#### Afghanistan Power Grid Afghanistan Power Network consists of 4 isolated system:

- i. North East Power System; **(NEPS)** consisting of a grid linking 17 load centers (Kabul, Mazari-Shariff, Jalalabad, etc) with Uzbekistan and Tajikistan (HVTL 220kv, 110kv, 35kv)
- ii. South East Power System (SEPS) consisting of Khandar, etc linking Kajaki (HVTL 110kv)
- iii. Herat system linking the Herat Zone with Islamic Republic of Iran and Republic of Turkmenistan (HVTL 132kv, 110kv)
- iv. Turkmenistan system linking Herat, Faryab, JawzJan, Sar-e-Pul and Andkhoy district. (HVTL 110kv)





# Afghanistan Electricity Demand Forecast for 20 Years





As per Afghanistan Power Sector Master Plan

## Investment Required to Meet demand Supply Gap

As per Afghanistan Power Sector Master Plan

Overview on Investment type	Subtotal I	oy project	Stage A	Stage B	Stage C	Stage D
Generation development	\$	7,329.50	\$ 327.60	\$ 348.50	\$ 981.50	\$ 5,671.90
Major transmission projects	\$	1,725.90	\$ 595.00	\$ 676.00	\$ 212.90	\$ 242.00
Transmission development within						
the provinces	\$	1,041.00	\$ 291.10	\$ 439.80	\$ 215.10	\$ 95.00
Total in Million USD	\$	10,096.40	\$ 1,213.70	\$ 1,464.30	\$ 1,409.50	\$ 6,008.90







Da Afghanistan Breshna Sherkat Afghan National Electricity Company

# Thank You