

DA AFGHANISTAN BRESHNA SHERKAT

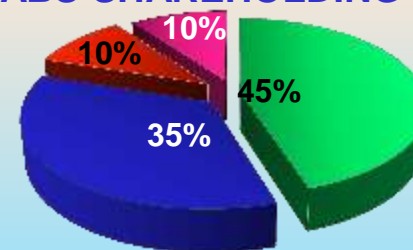
Achieving Energy Security in Central Asia Role of Renewable Energy

**12-13 March 2018
Baku, Azerbaijan
Hilton Baku**

Executive Summary

- DABS was established under The Corporations and Limited Liabilities Law of the Islamic Republic of Afghanistan May 04, 2008 (15 Saur 1387) following the dissolution of Da Afghanistan Breshna Mossasa (DABM) that had been under the Ministry of Energy and Water.
- DABS is an independent and autonomous utility that is 100% owned by the Government I.R.A
- Our charter is to operate and manage electrical power generation, imports, transmission, and distribution throughout Afghanistan on a commercial basis.
- Our goal is to provide safe, reliable power at reasonable rates to facilitate national economic growth with integrity, transparency and efficiency.
- DABS is about 7,000 strong team all over the country

DABS SHAREHOLDING PATTERN



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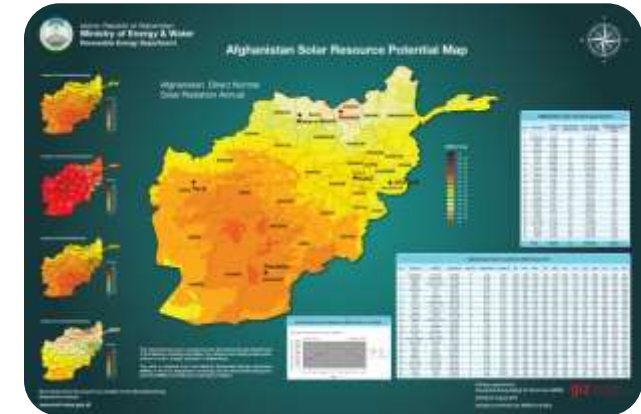
- Status of REN Sector in Afghanistan
- Role of REN in Energy Self-sufficiency plan of Afghanistan
- On-going and Considered REN Projects in 1396 national Budget
- Status and issues of 100 MW Package
- REN Funding opportunities from Climate change funds
- How we can promote REN in Afghanistan? (Discussion)

Current Status of REN sector in Afghanistan



- **Potentials:**

- ✓ Solar Energy 222 GW (more than 300 days/year)
- ✓ Wind Energy 67 GW (Feasible Wind Energy Potential)
- ✓ Hydro Energy 23 GW
- ✓ Biomass and Biogas Energy 4000 MW
- ✓ Geothermal Energy 3000 MW



Current Status of REN sector in Afghanistan

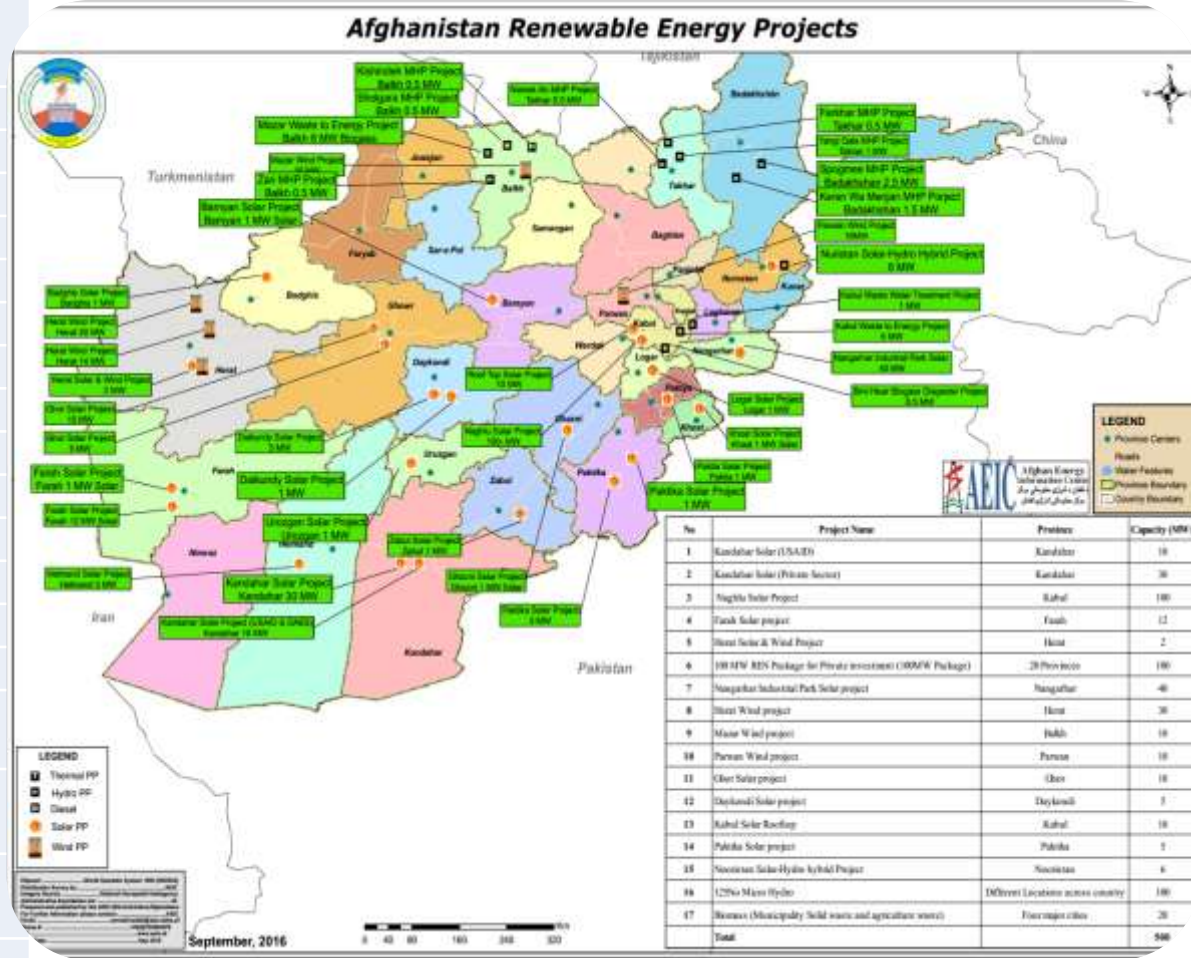
- **Legislations and Documents:**

- ✓ Power Service Regulation Law
- ✓ Public Private Partnership Law
- ✓ Renewable Energy Policy
- ✓ Energy Self-Sufficiency Plan
- ✓ Draft of Tariffs policy
- ✓ Draft of net metering policy
- ✓ Energy Self-sufficiency plan



Role of REN in Energy Self-Sufficiency Plan of Afghanistan

No	Project Name	Province	Capacity (MW)
1	Kandahar Solar (USAID)	Kandahar	10
2	Kandahar Solar (Private Sector)	Kandahar	30
3	Naghlu Solar project	Kabul	100
4	Farah Solar	Farah	12
5	Herat Solar + Wind	Herat	2
6	100 MW Package	20 Provinces	100
7	Nangarhar Industrial Park Solar	Nangarhar	40
8	Herat Wind	Herat	30
9	Mazar Wind	Balkh	10
10	Parwan Wind	Parwan	10
11	Ghor Solar	Ghor	10
12	Daykondi Solar	Daykondi	5
13	Kabul Solar Rooftop	Kabul	10
14	Paktika Solar	Paktika	5
15	Nooristan Solar-Hydro	Nooristan	6
16	125No Micro Hydro	Different Locations across country	100
17	Biomass (Municipality Solid waste and agriculture waste)	Four major cities	20
Total			500



On-going and Considered REN Projects in 2018 national Budget

- 2 MW Herat Solar and Wind Hybrid project (Completed)
- 12 MW Farah Solar and wind Hybrid Project
- 5 MW Shindand Solar project
- 15 MW Kabul Solar rooftop Project
- 40 MW Hesar-e-Shahi Solar project
- 5 MW Daykundi Solar project
- 10 MW Khost Solar project
- 20 MW Naghlo Solar project (ADB)
- 30 MW Kandahar Solar project



REN projects for private sector investment

- **1st Package of REN projects (100MW Package):**
 - ✓ 30 REN projects in 20 Provinces (totally 100 MW)
 - ✓ Solar energy 65 MW, 17 projects
 - ✓ Wind energy 14 MW
 - ✓ Biomass energy 13.5 MW
 - ✓ MHP 7.5 MW
- EOI announced and more than 30 Companies sent their EOI to these projects.

Status of 1st Package of REN projects (100MW Package):

- Land for all projects of this package is prepared.
- Procurement stage and PPA of 30 MW Kandahar solar project is done.
- Since it's procurement was completed before approving the PPP law, the final solutions will be presented to the HEC.
- Other projects of this package will be re-announced according to PPP law.

Issues of investment on REN projects

- PPP law and it's procedure
- Tax
- Incentives
- Guarantee
- Security risks
- Standards
- Land acquisition

REN Funding opportunities from Climate change funds

- COP21, Paris 2015
 - ✓ Afghanistan's INDS (Intended Nationally Determined Contribution) submitted to the UNCCC (United Nations Framework Convention on Climate Change).
 - ✓ Totally USD 17.405 billion is requested: USD 10.785 billion for Adaptation, and USD 6.62 billion for Mitigation activities.
- Clean Development Mechanism (CDM)
- Green Climate Fund (GCF)
 - ✓ GCF Readiness and Preparatory Support Program
 - ✓ GCF Project Fund
- Climate Technology and Climate Network (CTCN)

Sustainable Energy = Sustainable Development

Thank you!

Eng. Wakil Nasery

Chief Operation

Officer of DABS

