Da Afghanistan Breshna Sherkat

Investment Opportunities

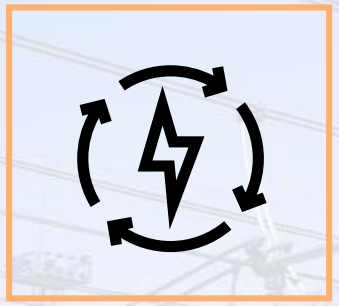
In Energy Sector

January, 2025

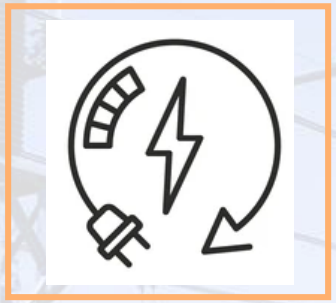
Who We are?

Da Afghanistan Breshna Sherkat (DABS) is the state entity responsible for the Generation, Import, Transmission, Distribution, and Revenue collection of the electricity in Afghanistan. DABS operates under the General Directorate of Emirate-Owned Companies, overseeing Energy Infrastructure Development and Investment Attraction.

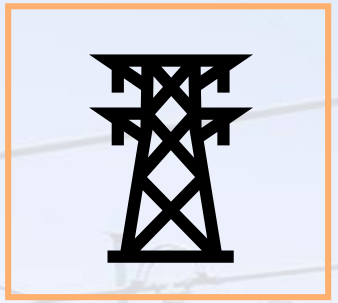
What We Do?



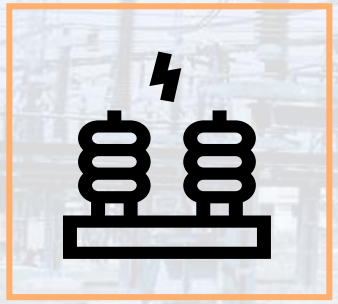
Generation



Import



Transmission



Distribution & Revenue Collection

Energy Infrastructure Development

Investment Attraction

OUR STORY

1348/1969

Establishment

Following a Royal Decree as “Da Afghanistan Breshna Moasesa”

1

1365/1986

Renamed

"Tasadi Breshna" Operated under the MEW as a profit-seeking company with a fixed capital of 10.686 million AFN.

2

1386/2008

Restructured

As "DABS" with Initial capital of 25 billion AFN & Final Capital of 100 billion AFN in accordance with the LLC & Joint Stock Law

3

OUR STORY

1399/2020

Recent Amendments

Statute amended, by the Cabinet of the Islamic Republic of Afghanistan. Since, the company operates under the Law on State Companies.

1403/2024

Current Status

DABS has independent Financial Statements from its shareholders, with the total capital is 84.3 Billion AFN. The only government shareholder is the MoF.

Our Vision

Vision

Da Afghanistan Breshna Sherkat addresses the country's electricity needs while leveraging new technologies for sustainable economic and social development. The company aims to enhance electricity access to boost domestic production and create an economically, socially, and environmentally sustainable power supply, ensuring reliable and affordable electricity for all segments of society without discrimination.

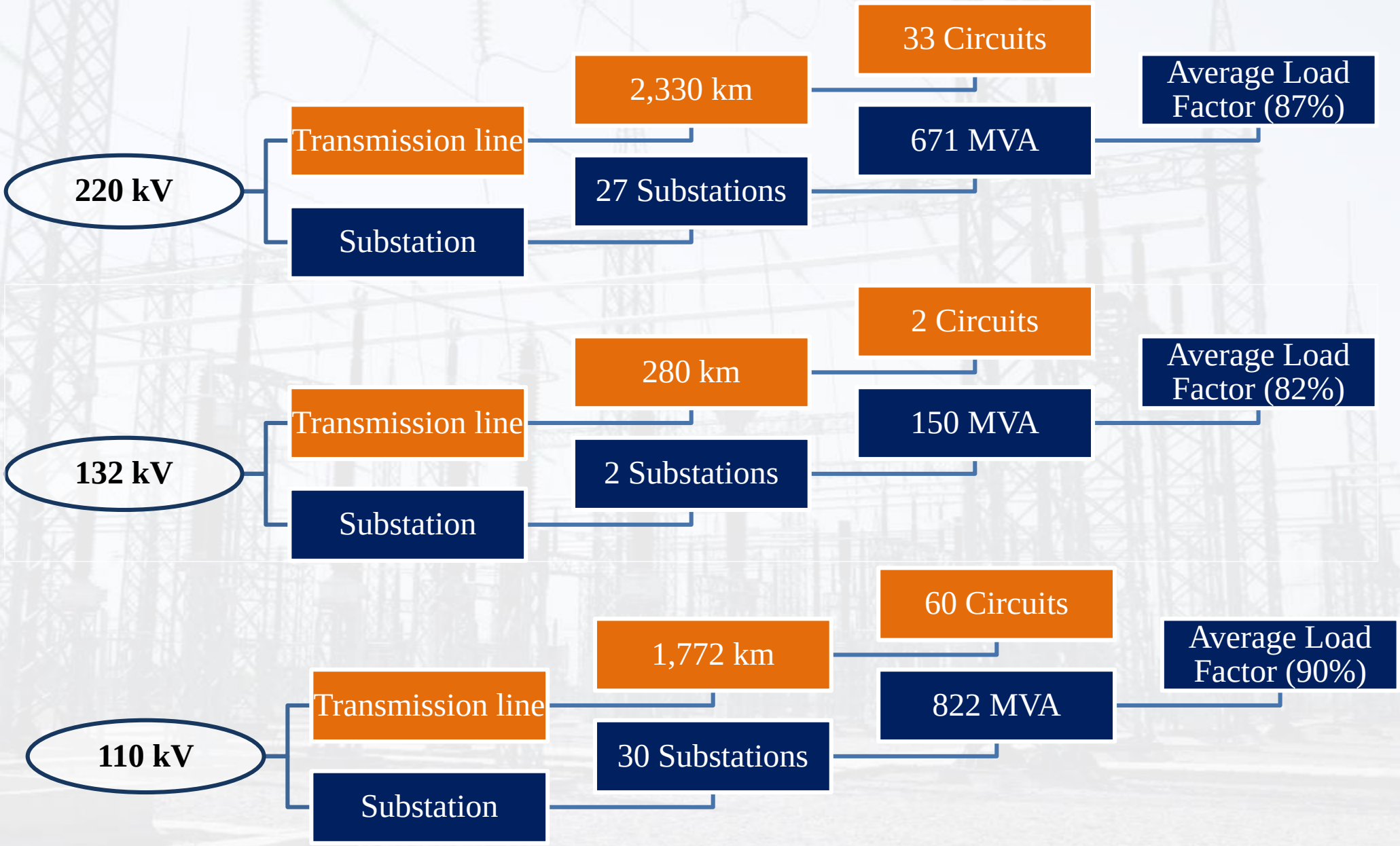
Our Mission

- Sustainable & Reliable Power Supply
- Extension and strengthening of the power network
- Attracting private investment and ensuring financial sustainability
- Cooperation with international organizations
- Increasing access to electricity
- Enhancing energy efficiency and promoting renewable energy
- Improving customer services and empowering the workforce
- Supporting the local community & promoting transparency & social responsibility
- Transit and supply of electricity from neighboring countries

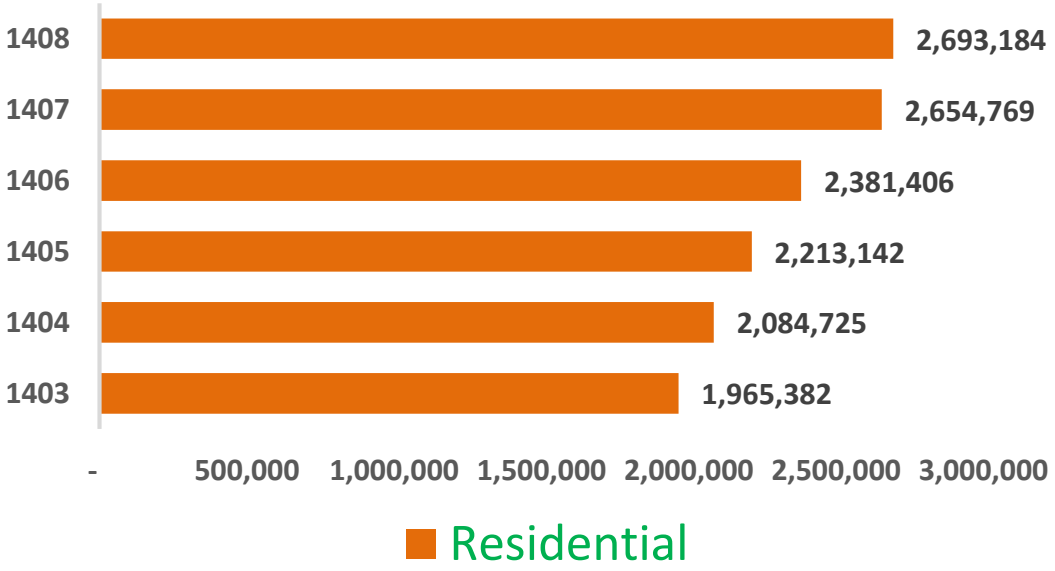
Our Objective

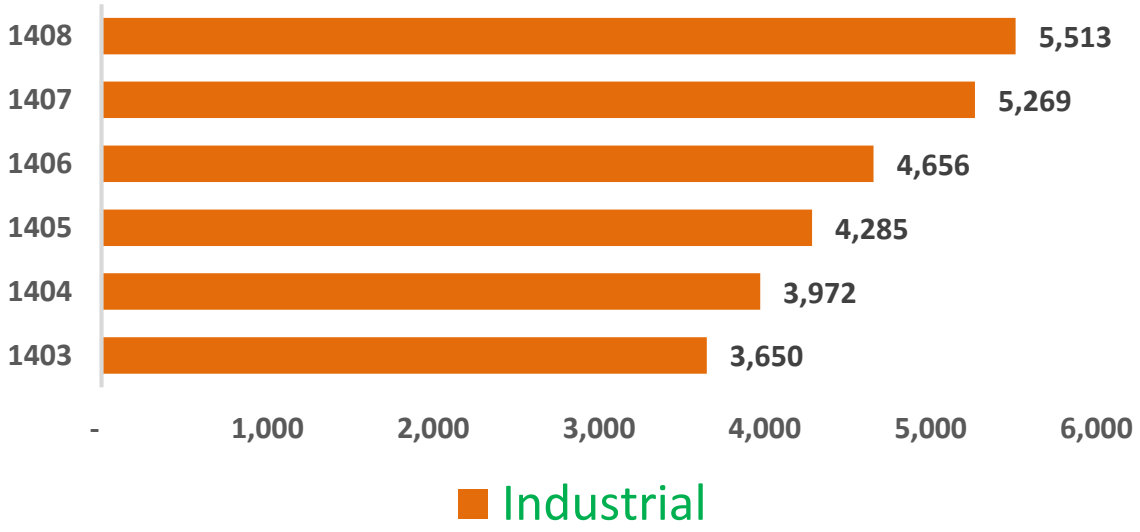
- Increase the reliability and sustainability of the power system
- Reduce energy losses
- Improve access to electricity and quality of electricity services
- Enhance the financial capacity and financial management of the company
- Utilize renewable energy and promote sustainable development
- Increase stakeholder trust
- Foster employee participation
- Improving customer services and empowering the workforce

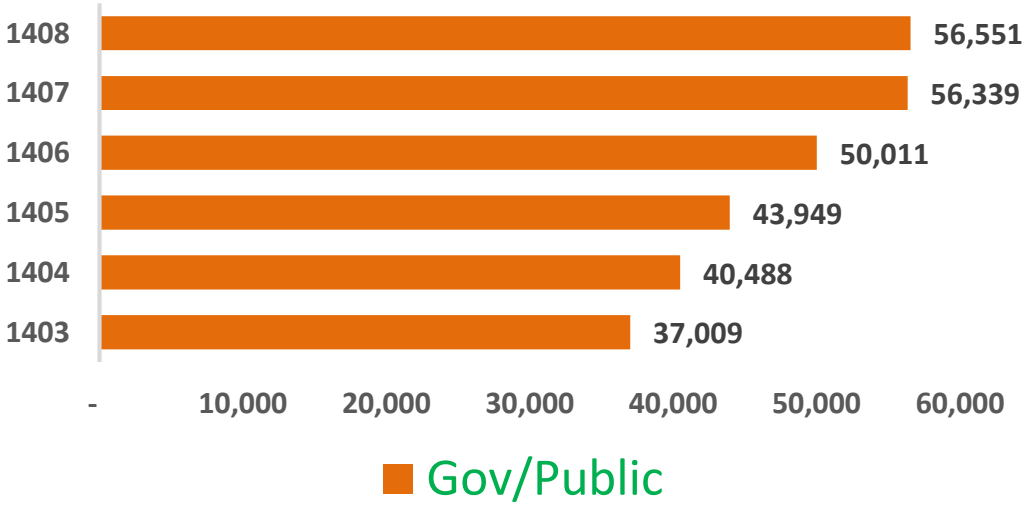
Grid Capacity

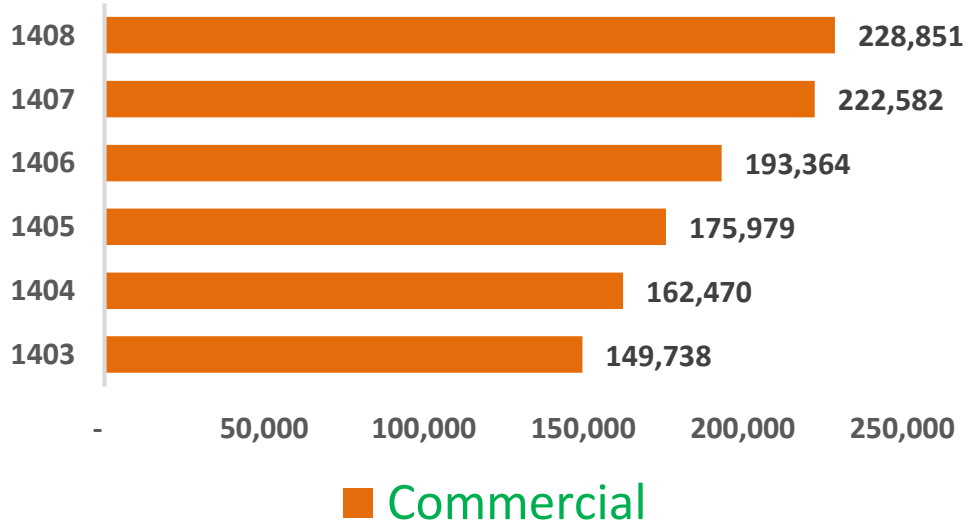


Customers and Projected Growth







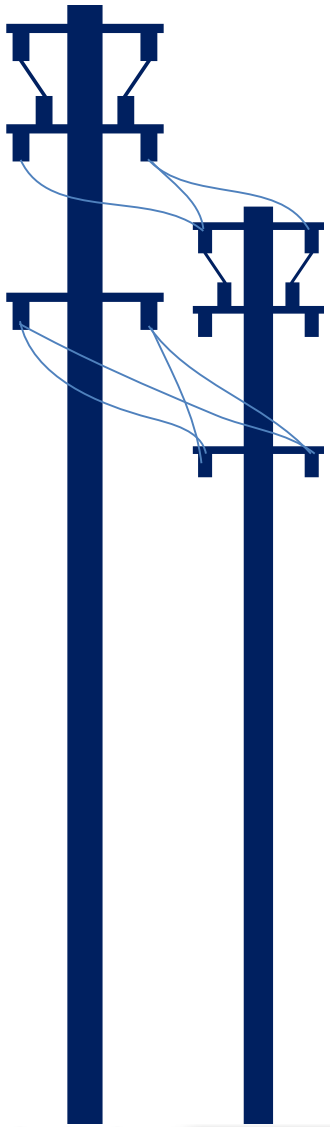


Our Team

Operation /Technical Staff	4,429
Commercial Staff	2,037
Financial Staff	686
Administrative Staff	1,786
Executive Office Staff	305

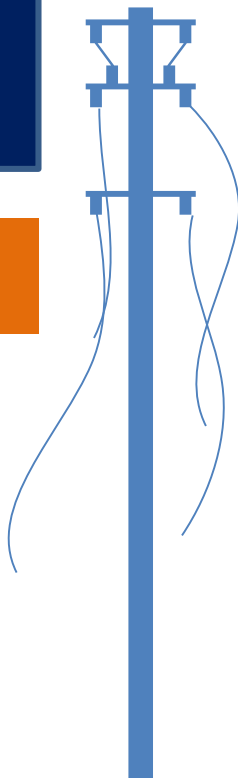
Total Employee - 9243

Total Planned Energy Supply for 1404 (2025)



8,009,930,514 kWh

In 1404, DABS Planned to supply 8.009 billion kilowatt-hours of electricity.



Total Planned Energy Supply for 1404 (2025)

6,754,644,873 kWh

Imported Energy

716,695,658 kWh

DABS Operated Resources Energy

538,589,983 kWh

Private Sector(IPP) Energy

Imported Energy Planned for 1404 (2025)

Uzbekistan
2,220,000,000 kWh
32.87%

Tajikistan
1,854,499,093 kWh
27.45%

6,754,644,873 kWh

Turkmenistan
1,905,716,000 kWh
28.22%

Iran
774,429,780 kWh
11.46%

Domestic Energy Planned for 1404 (2025)

Hydro
628,410,029 kWh
87.68 %

Diesel Generators
38,766,500 kWh
5.4 %

716,695,658 kWh

Thermal
27,900,000 kWh
3.9 %

Solar
21,619,130 kWh
3.02 %

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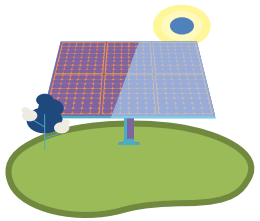
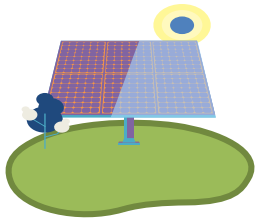
BRESHNA BRINGS LIGHTS

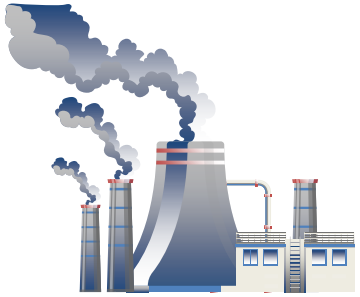
Private Sector Planned Energy Supply for 1404 (2025)

538,589,983 kWh (100%)

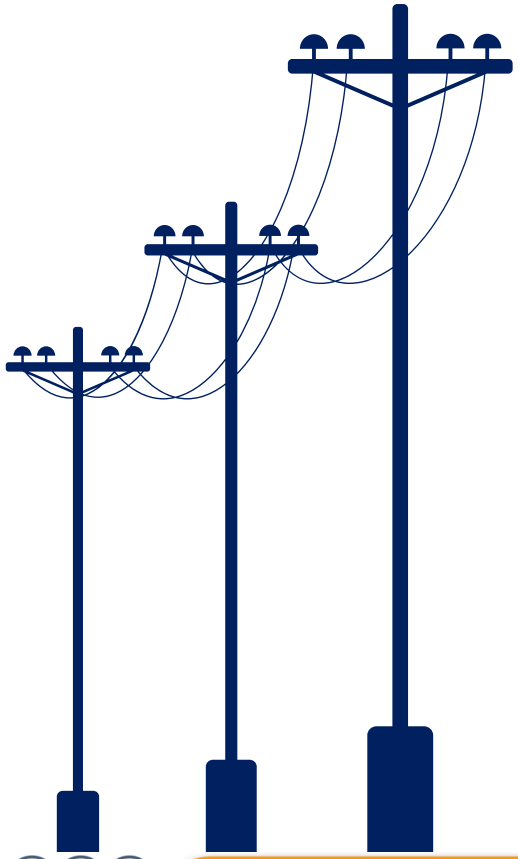
- Dynasty SPP — 21,549,910 kwh — 4 %
- Zularistan SPP — 25,507,135 kWh — 4.7 %
- 77 SPP — 28,637,001 kWh — 5.3 %
- Kajaki HPP — 462,895,937 kWh — 86 %
- Bayat Power GPP — 0 kWh — 35.7%







Afghanistan’s Existing Power System



01

NEPS

Synchronized with Uzbekistan and Tajikistan largest share of demand including Kabul.

02

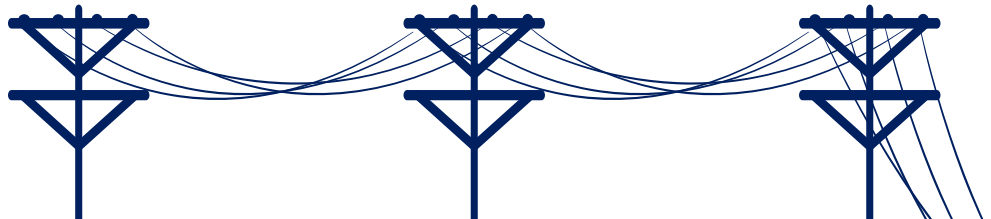
SEPS

Has no interconnection currently for power import and suffers almost 50% power deficit.

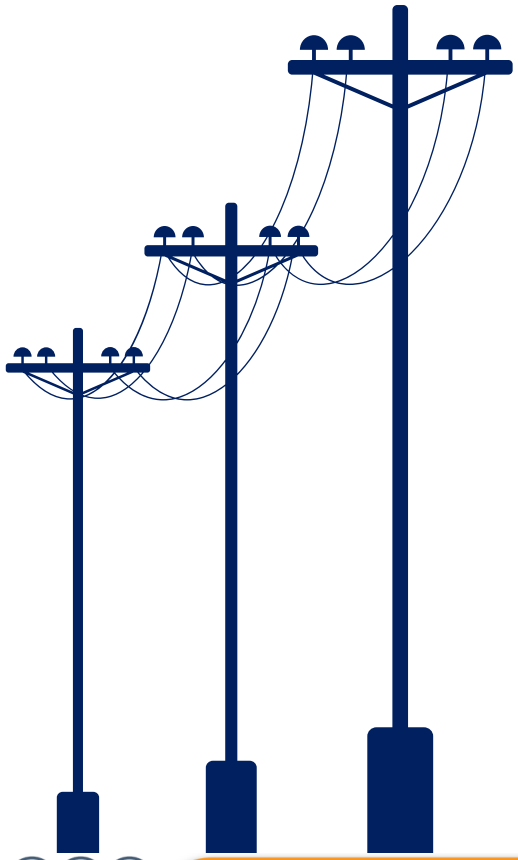
03

WPS

Synchronized with Turkmenistan and Iran Covering Herat demand



What We Need at Existing Power System?



01 Add New Generation Capacities

- Deploy large- & small-scale Renewable and Non-Renewable Energy projects.

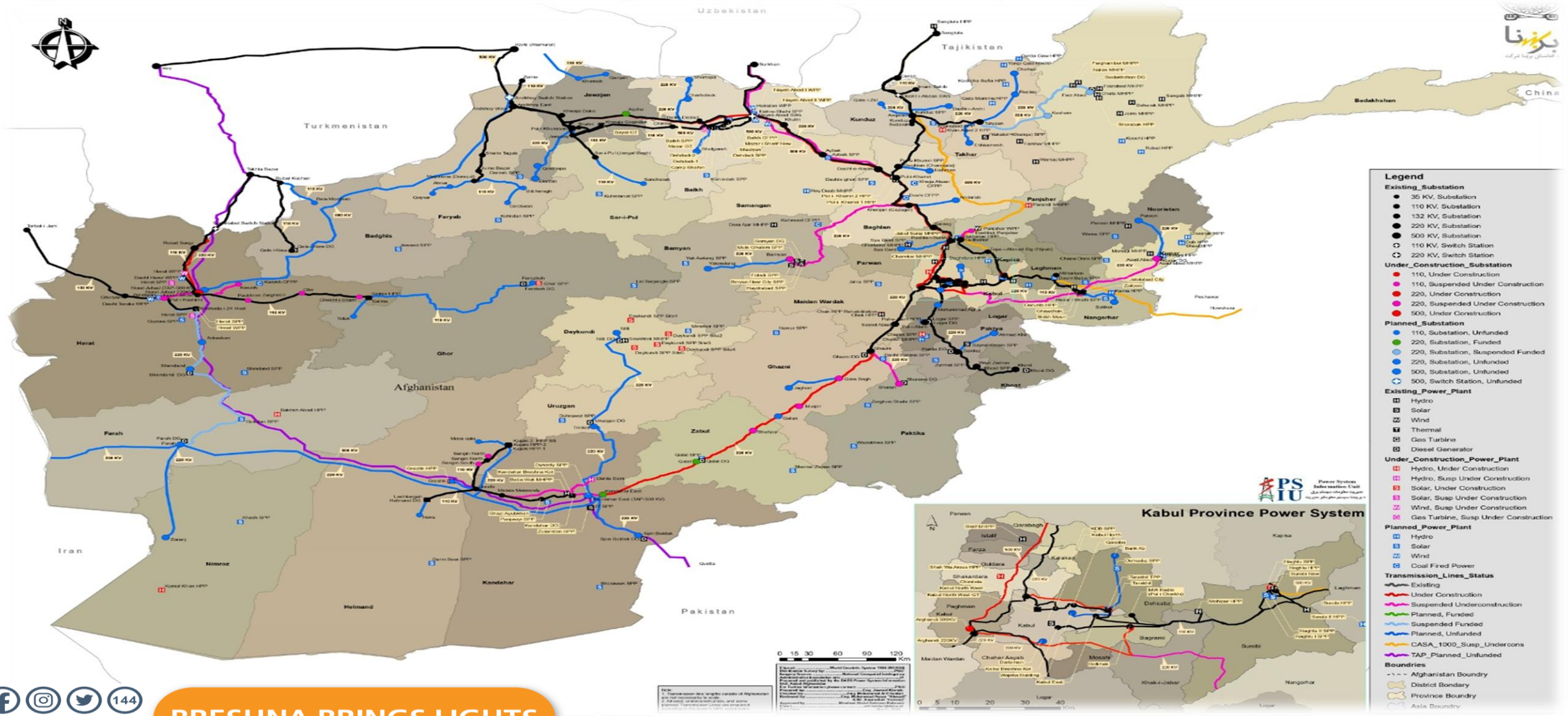
02 Build HV Transmission Capacities

- Completion of TAP 500 kV Transmission line.
- Construction of the 500kV Transmission Network from Uzbek. (MOU Signed)
- Completion of Butekhak - Shiekh Mesry Nangarhar Transmission Line. (MOU Signed)

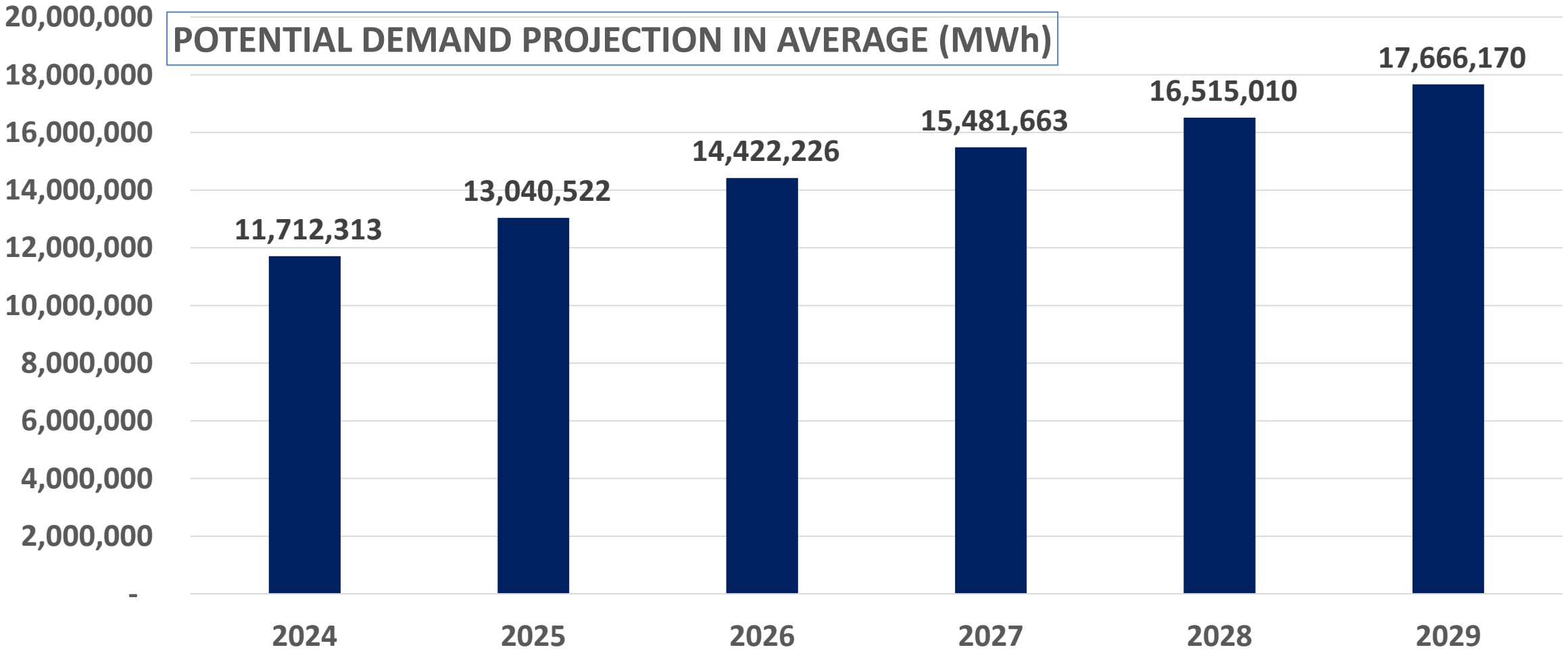
03 Funding & Investment

- Support of international community to fund renewable energy projects.
- Attraction of National & International Investors at Energy Sector.

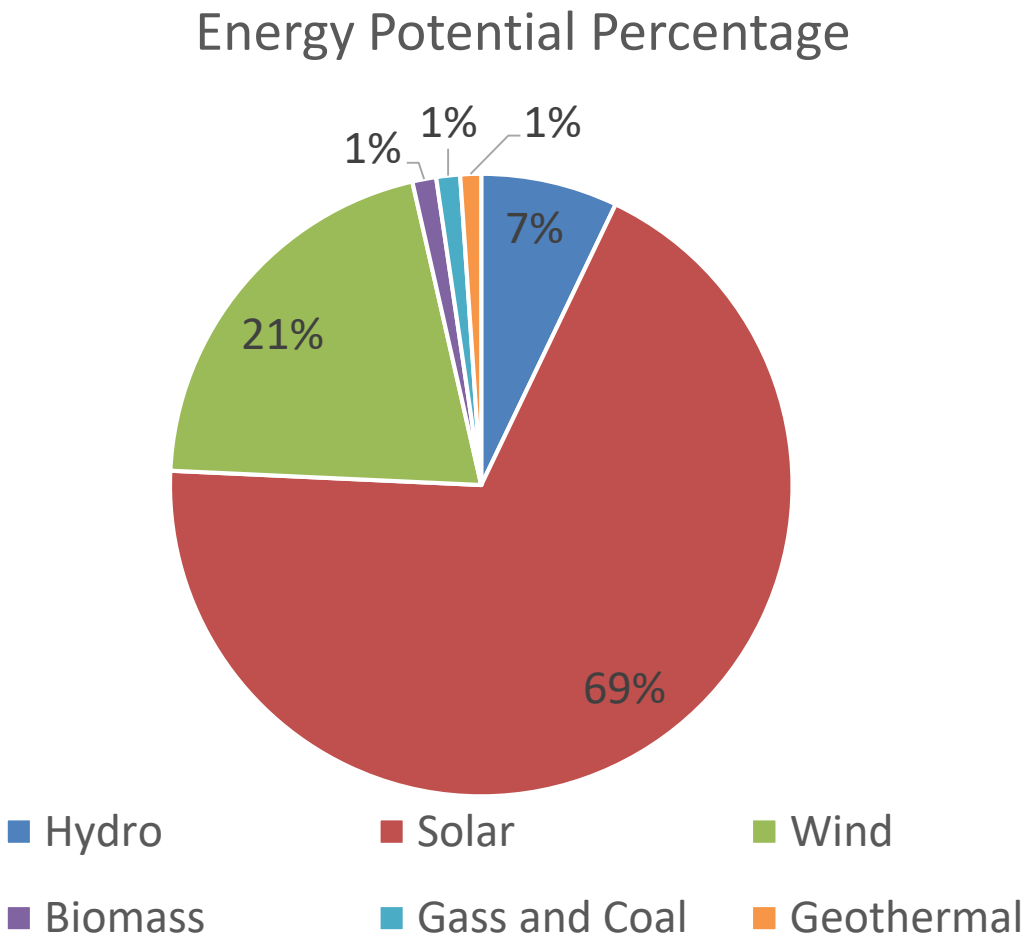
Afghanistan’s Power System up to 2032



Afghanistan’s Energy Demand



Potential of Energy Resources in Afghanistan



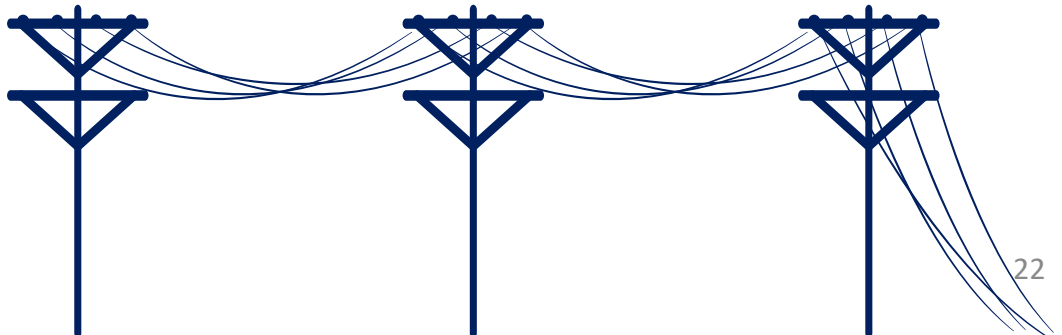
Potential of Energy Resource by Capacity		
No	Source	Capacity (MW)
1	Hydro	23,000
2	Solar	222,000
3	Wind	67,000
4	Biomass	4,000
5	Gas and Coal	4,000
6	Geothermal	3,500

Investment Opportunities

DABS has prioritized the investment opportunities in the following majors:

- Construction of Power Plants
- Hydro
- Thermal
- Wind
- Solar (on grid and off grid)

- Completing the Incomplete Projects of DABS
- Construction of Substation
- Extension of Transmission Lines
- Extension of Distribution Networks
- Construction of Power Plants



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Hydro Power Resources Potential

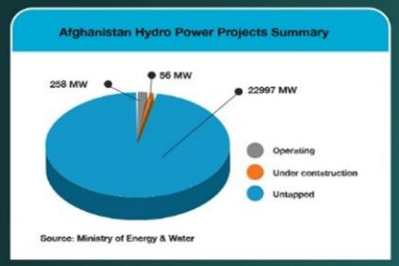
23 GW Available Potential

425.9 MW Installed Capacity

744.192 GWH Annual Generation

Islamic Emirate of Afghanistan
Da Afghanistan Breshna Sherkat
Investment Coordination Directrate

Afghanistan Hydro Resource Map
(Including Mini & Micro Hydro Power Plants)



Legend
- Water Features
- Rivers
- Sub-Basins/River Basins
- The Panj-Amu River Basin
- The Harirod-Murghab River Basin
- The Helmand River Basin
- The Kabul River Basin
- The Northern River Basin

Afghanistan's hydro potential resources information is provided by the Renewable Energy Department of the Ministry of Energy and Water. The dataset provide information on hydro power potential, installed hydro power plants capacity and under construction hydro power projects capacity (including Mini & Micro Hydro Power Projects) in Afghanistan. The data is obtained from the National Renewable Energy Laboratory (NREL) of the U.S. Department of Energy, Kabul Polytechnic University, Ministry of Energy and water (Planning Department) and Renewable Energy Database

Afghanistan Hydro Potential Resources

No.	Zone	River	Potential (MW)
1	Kabul	Kabul	408
2		Panjshir	400
3		Laghman	44
4		Kunar	1089
5	Panj-Amu	Panj	9050
6		Amu	9110
7		Kokcha	1927
8		Kunduz	50
9	Northern	Jawzjan	460
10		Balkh	300
11	Harirod-Murghab	Harirod	102
12		Murghab	100
13	Helmand	Helmand	190
14		Farah Rod	80
	Total		23,310

Source: Ministry of Energy & Water, Kabul Polytechnic University

Mini & Micro Hydro Power Projects in Afghanistan (up to 1 MW)

No.	River Basin	Provinces	Area (Km²)	Projects Completed		Projects Surveyed		Total Zones
				Capacity (kW)	Number	Capacity (kW)	Number	Capacity (kW)
1	Kabul	Kabul	4,524	565	25	0	0	20,437
2		Kapisa	1,908	917	141	0	0	
3		Parwan	5,715	3810	228	0	0	
4		Wardak	10,348	621	85	5	1	
5		Logar	4,568	433	43	600	1	
6		Ghazni	22,460	875	93	0	0	
7		Paktika	19,516	0	0	0	0	
8		Panjshir	3,772	2839	100	0	0	
9		Paktia	5,583	824	79	1,000	3	
10		Khost	4,235	72	8	0	0	
11		Nangarhar	7,641	1884	171	0	0	
12		Kunar	4,926	2141	127	2,200	3	
13		Laghman	3,978	561	60	0	0	
14		Nooristan	9,267	1088	79	0	0	
15	Panj-Amu	Badakhshan	44,836	12477	568	7,065	16	36,470
16		Bamyan	18,029	2354	165	1,762	3	
17		Takhar	12,458	4979	214	5,396	11	
18		Baghlan	18,255	2399	172	0	0	
19		Kunduz	8,081	38	4	0	0	
20	Northern	Samangan	13,438	1116	52	900	2	3,263
21		Balkh	16,186	554	33	0	0	
22		Jawzjan	11,292	0	0	0	0	
23		Sar-i-Pul	16,386	347	26	0	0	
24		Faryab	20,798	345	25	0	0	
25	Harirod-Murghab	Badghis	20,794	37	5	0	0	1,891
26		Herat	55,869	334	29	0	0	
27		Farah	49,339	0	0	0	0	
28		Ghor	36,657	1520	93	0	0	
29	Helmand	Nimroz	42,410	5	1	0	0	3,825
30		Helmand	58,305	75	3	0	0	
31		Kandahar	54,845	1000	2	0	0	
32		Zabul	17,472	0	0	0	0	
33		Urozgan	11,474	0	0	0	0	
34		Daykundi	17,501	58	10	2,687	11	
	Total		652,864	44,271	2,641	21,615	51	65,886

Source: Renewable Energy Department, Ministry of Energy & Water

Hydro Prioritized Opportunities for Investments

No	Location	Capacity (MW)	Distance from SS
1	Kabul ,Surobi 1 Extension	2x11	3.48km from Sarobi SS
2	Kabul ,Surobi 2	180	8km from Sarobi SS
3	Kapisa, Baghdara	240	13.74km from Ahmad Bek SS
4	Gulbahar, Panjshir	120	3.5km from Gulbahar SS
5	Badakhshan Kochi	332	NS
6	Kunar, Dab	450	NS
7	Kunar, Sagay	300	NS
8	Kunar,shaal	798	NS
9	Takhar, Gurda Gaw	237	101.16km form Taliqan SS
10	Kunar, Choonak	390	NS
11	Takhar, Qala Momayai(Kokcha)	445	30.2km from Taliqan SS
12	Badakhshan, Robat	141	NS
13	Tangi Daulat Sha, Laghman	4-5	NS
14	Watan Gatu,Laghman	3-8	NS
15	Puza-e-Leach, Ghor	4.1	NS

Hydro Power Plant Rehabilitation Investment Opportunity List

No	Project	Location	Capacity	Category
1	Rehabilitation of Darunta Hydro Power Plant	Nangarhar	3x3.85 MW	Power Generation
2	Rehabilitation of Pul-e-Khumri hydro power plant	Baghlan	3x3 MW	Power Generation
3	Rehabilitation of Jabal -Saraj hydro power plant	Parwan	5x0.5 MW	Power Generation
4	Rehabilitation of Mahipar Hydro Power Plant Unit - 1	Kabul	1x22 MW	Power Generation
5	Rehabilitation of Managi Hydro Power Plant Unit	Kunar	2x1 MW	Power Generation
6	Procurement and Supply of spare parts for (Naghlu, Darunt & Pul-E-Khumri-2) Hydro Power Plants	Baghlan	LOT	Power Generation

Hydro Mini- Grid Investment Opportunities

No	Province	District	Village name	Capacity (kW)
1	Balkh	Zari district	Centre and village	500
2	Balkh	Koshunda	Aqkobrog	500
3	Balkh	Sholgara		500
4	Takhar	Yangiqala	Kildash	1000
5	Takhar	Dasht-e-Qala		300
6	Takhar	Dasht-eQala	Centre	80
7	Takhar	Dasht-e-Qala		400
8	Takhar	Baharak	Centre	110
9	Daikondi	Khadir	Centre	2470
10	Daikondi	Ashtarlay		1820
11	Daikondi	Ashtarlay		1000
12	Daikondi	Khadir		152
13	Daikondi	Sang-e-Takht		132
14	Daikondi	Sang-e-Takht		288
15	Daikondi	Khadir	Centre	71
16	Daikondi	Sang-e-Takht		57
17	Daikondi	Sharestan		212
18	Daikondi	Nili	Nili	13800
19	Daikondi	Ashtarlay		5100
20	Bamayan	Wara	Centre	292
21	Bamayan	Waras	Centre	90
22	Bamyan	Panjab		190
23	Bamyan	Waras		434
24	Bamyan	Waras		563
25	Wardak	Hese Awal Behsod	Hese Awal Behsod	275
26	Nooristan	Wama		11380
27	Nooristan	Paroon		4770

Thermal Power Resources Potential

1,800 MW

Pre-Feasibility Study done

4,000 MW

Total Potential in Afghanistan

Thermal Prioritized Opportunities for Investments

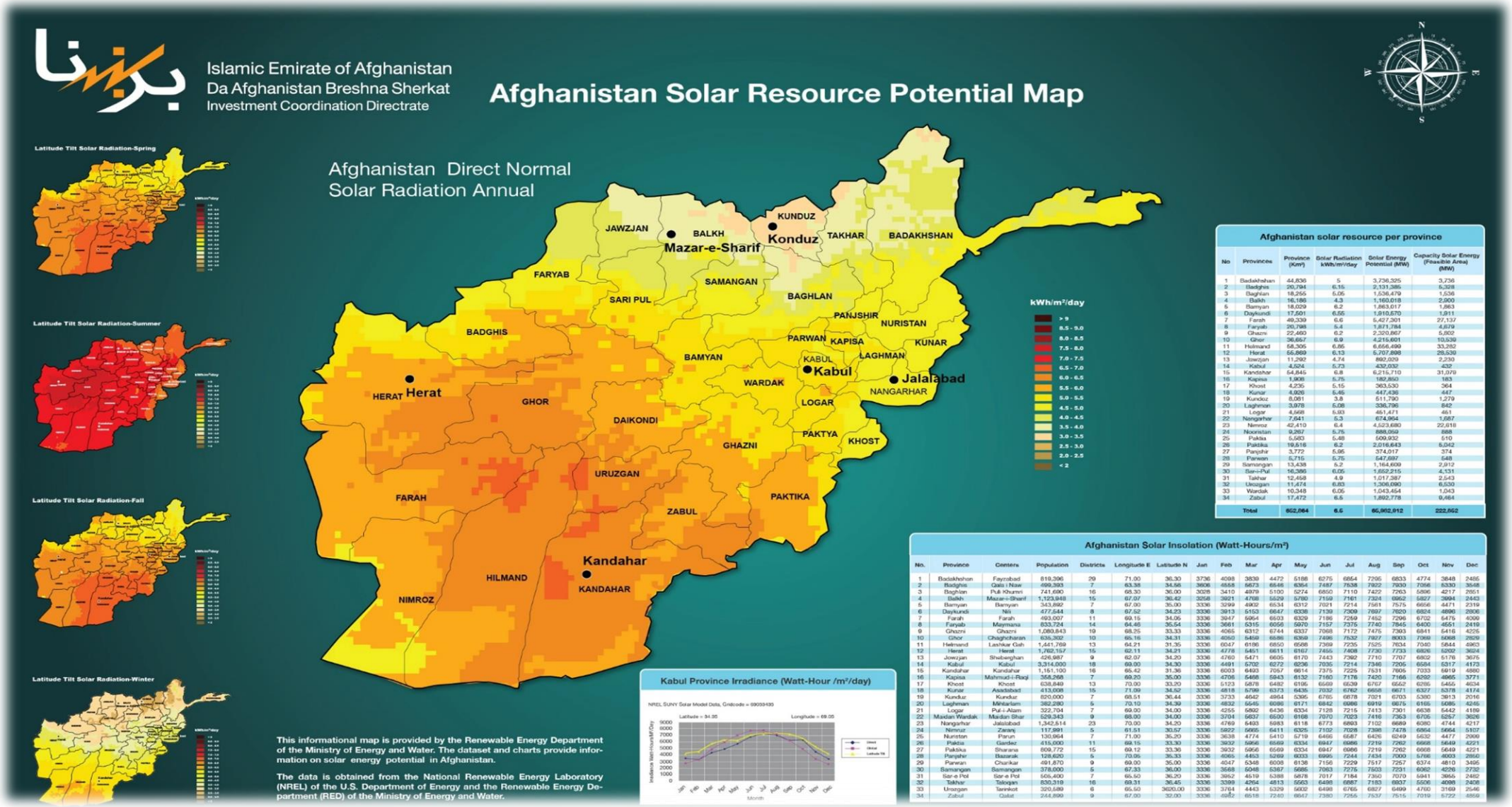
No	Kinds of Project	Location	Capacity (MW)
1	Feasibility Study for Generation of Electricity from Coal (Thermal Power Plants) in Afghanistan	All Provinces	Not Available
2	Feasibility Study for Generation of Electricity from Gas (Thermal Power Plants) in Afghanistan	All Provinces	Not Available
3	Coal-Fired Power Plant	Baghlan, Khenjan	100
4	Coal-Fired Power Plant	Baghlan, Khawja Alwan	300
5	Coal-Fired Power Plant	Bamyan, Kahmard Saighan	400
6	Coal-Fired Power Plant	Balkh, Sholgarah,	750
7	Coal-Fired Power Plant	Herat, Karokh	150
8	Coal-Fired Power Plant	Kabul, Naghlu	100
9	Biomass Power Plant	Kabul, Khak-e-Jabar	30
10	Gas Power Plant	Jawzjan, Yatemtaq	50

Solar Power Resources Potential

222
GW
Estimated Capacity

300
Sunny Days/year

5,5
kW/m2/day Averages



Solar Prioritized Opportunities for Investment

No	Kind of Projects	Location	Capacity (MW)
1	Solar-Power Plant	Kunduz	10
2	Solar-Power Plant	Logar, Pul-e- Alam	40
3	Solar-Power Plant	Samangan	5-10
4	Solar-Power Plant	Balkh, Dehdadi	15
5	Solar-Power Plant	Baghlan,Pol-e-Khomri	16
6	Solar-Power Plant	Laghman, Dasht-e-Baba	10
7	Solar-Power Plant	Balkh, Khulm	10
8	Solar-Power Plant	Kabul, ShakarDara	20
9	Solar-Power Plant	Kapisa, Tap-e-Ahmad Bic	80
10	Solar-Power Plant	Parwan, Barikab	40
11	Solar-Power Plant	Kapisa, Dasht-e-Bolaghian	40

Solar Mini- Grid Investment Opportunities

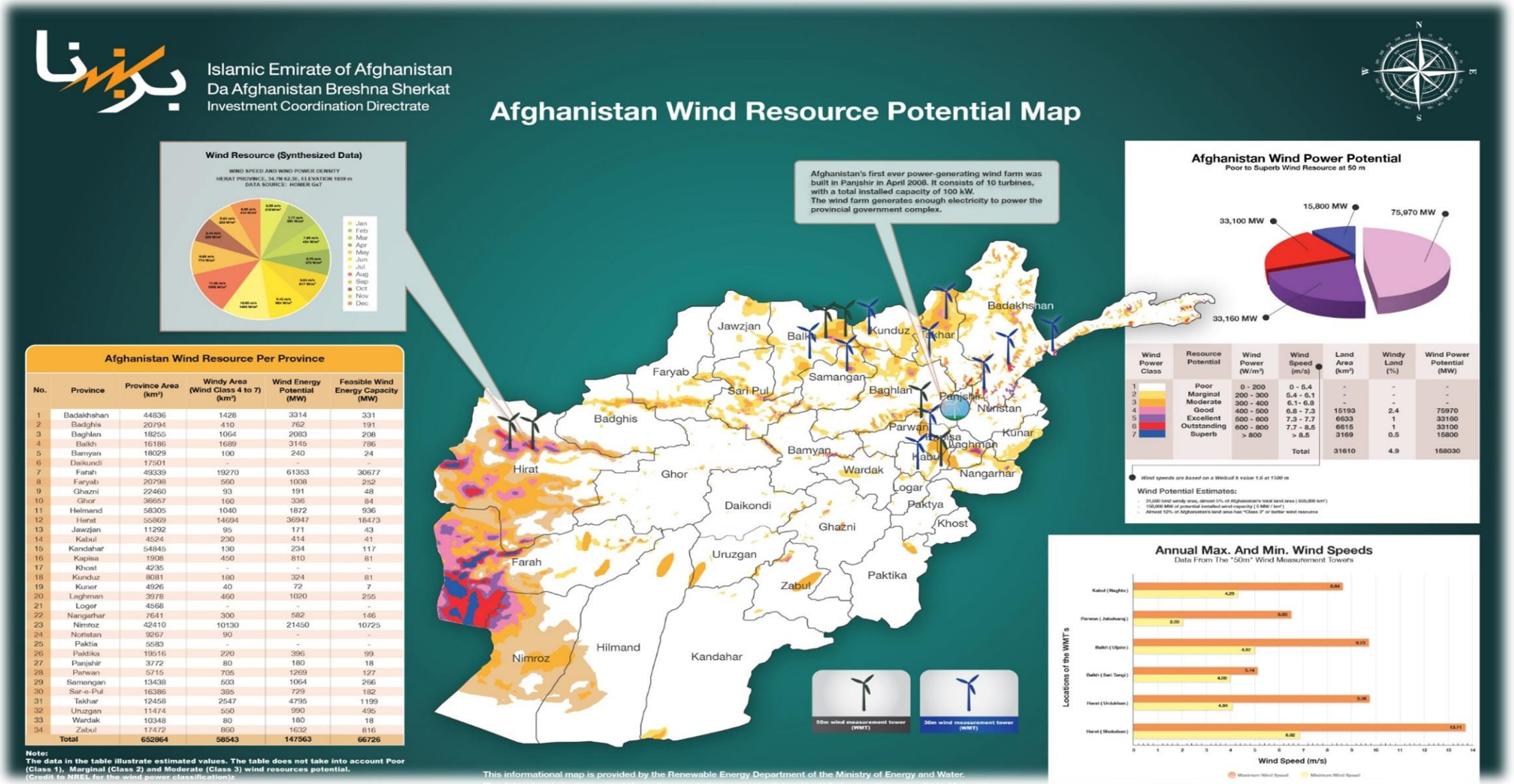
No	Province	District	Village name	Capacity (kW)
1	Nangarhar	Momand Dara	Gozarga Trukham	2000
2	Nimroz	Khash	Center of District	2000
3	Farah	Gulistan	Center of District	1000
4	Ghor	Lal Sarjangle	Center of District	1500
5	Dikundi	Miramor	Chaprasak village	1000
6	Uruzgan	Dehrawat	Zartala	2000
7	Ghazni	Nawur	Chaprasak village	1000
8	Paktika	Wazakhwa	Chaprasak village	1000
9	Kunduz	Khanabad	Shorab Mosazai	2000
10	Balkh	Kishindah	Zaree	1500
11	Jowzjan	Darzab	Chagana/gizraw	1500
12	Sari Pul	Kuhistanat	Center of District	1000
13	Faryab	Kohistan	Center of District	1000
14	Herat	Shindan	Qali Mohamad	2000
15	Helmand	Garm Seer	Center of District	1000
16	Kandahar	Shorawak	Center of District	1000
17	Zabul	Shamal Zayee	Zangeer	1000
18	Paktiya	Zurmat	Center of District	2000
19	Wardak	Jalriz	Kota Ashrow	500
20	Parwan	Sya Gerd	Wasgher	2000
21	Paktika	Zarghon	Shahr	2000
22	Baghlan	Dashte ghori	Azizan baba	2000

Wind Power Resources Potential

67GW
Estimated Capacity

Annual Max Wind Speed(13 m/s)

Annual Min Wind Speed(3 m/s)



Afghanistan Wind Resource Per Province

No.	Province	Province Area (km²)	Windy Area (Wind Class 4 to 7) (km²)	Wind Energy Potential (MW)	Feasible Wind Energy Capacity (MW)
1	Badakhshan	44836	1428	3314	331
2	Badghis	20794	410	762	191
3	Baghlan	18255	1064	2083	208
4	Balkh	16186	1689	3145	786
5	Bamyan	18029	100	240	24
6	Daikundi	17501	-	-	-
7	Farah	49339	19270	61353	30677
8	Faryab	20798	560	1008	252
9	Ghazni	22460	93	191	48
10	Ghor	36657	160	336	84
11	Helmand	58305	1040	1872	936
12	Herat	55869	14694	36947	18473
13	Jawzjan	11292	95	171	43
14	Kabul	4524	230	414	41
15	Kandahar	54845	130	234	117
16	Kapisa	1908	450	810	81
17	Khost	4235	-	-	-
18	Kunduz	8081	180	324	81
19	Kuner	4926	40	72	7
20	Laghman	3978	460	1020	255
21	Loger	4568	-	-	-
22	Nangarhar	7641	300	582	146
23	Nimroz	42410	10130	21450	10725
24	Noristan	9267	90	-	-
25	Paktia	5583	-	-	-
26	Paktika	19516	220	396	99
27	Panjshir	3772	80	180	18
28	Parwan	5715	705	1269	127
29	Samangan	13438	503	1064	266
30	Sar-e-Pul	16386	385	729	182
31	Takhar	12458	2547	4795	1199
32	Uruzgan	11474	550	990	495
33	Wardak	10348	80	180	18
34	Zabul	17472	860	1632	816
	Total	652864	58543	147563	66726

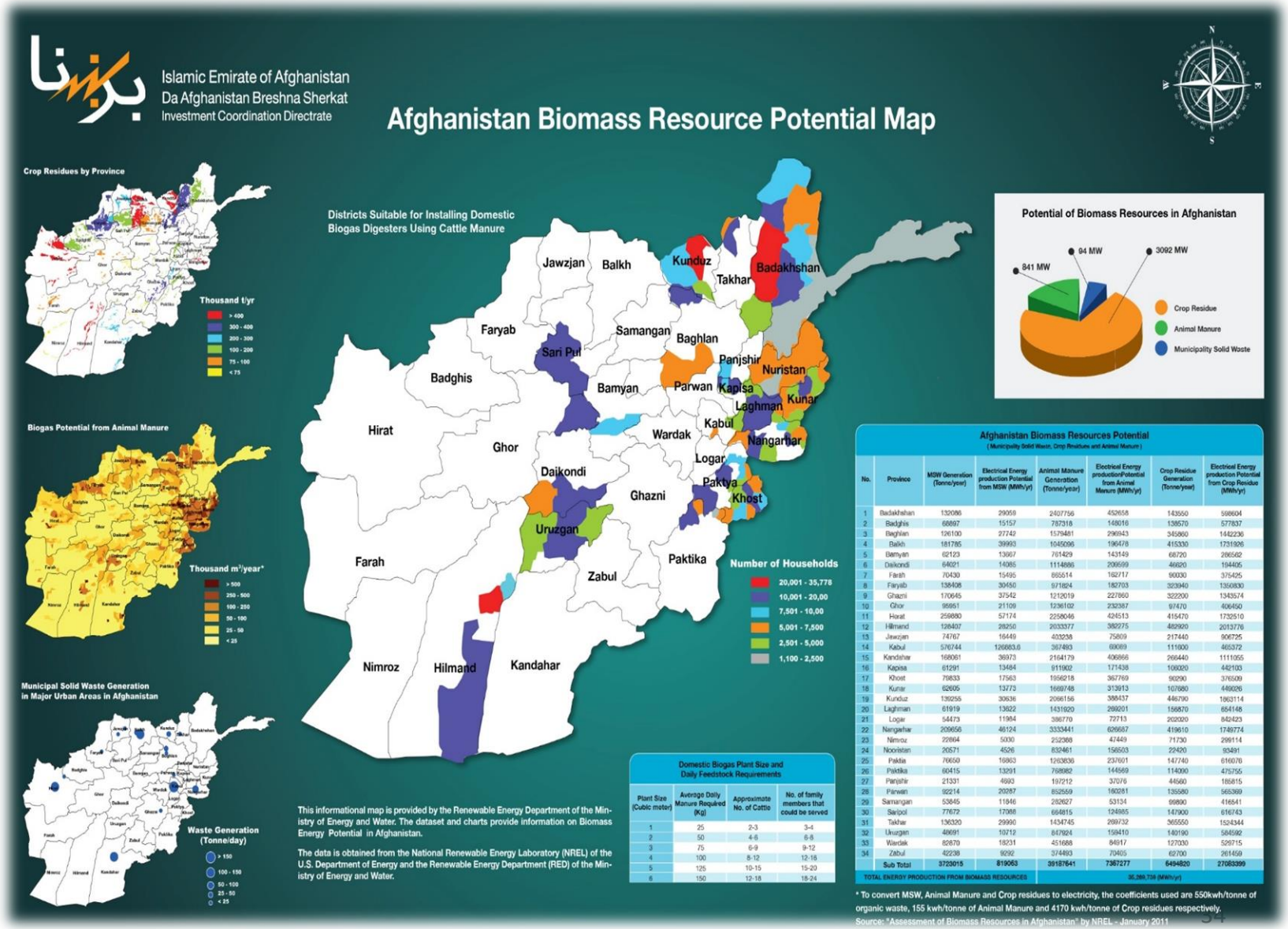
Note:
The data in the table illustrate estimated values. The table does not take into account Poor (Class 1), Marginal (Class 2) and Moderate (Class 3) wind resources potential.
(Credit to NREL for the wind power classification)z

Wind Prioritized Opportunities for Investments

No	Kind of Projects	Location	Capacity (MW)
1	Wind-Power Plant	Herat, Dasht-e-Hawz	40
2	Wind-Power Plant	Herat, Dasht-e-Taraka	40
3	Wind-Power Plant	Balkh, Nayeb Abad 1	40
4	Wind-Power Plant	Balkh, Nayeb Abad 2	40
5	Wind-Power Plant	Balkh, Hairatan	40

Biomass Power Resources Potential

- Biomass projects can use of organic materials such as wood, rice husks, bagasse, corn cobs, and coconut shells, which can be used to generate heat, steam, and/or electricity;
- Organic wastages of Kabul city have been collected since many years at Gazak area of Kabul;
- The preliminary survey indicate a capacity of about 200MW power generation is available.



No.	Province	MSW Generation (Tonne/year)	Electrical Energy production Potential from MSW (MWh/yr)	Animal Manure Generation (Tonne/year)	Electrical Energy productionPotential from Animal Manure (MWh/yr)	Crop Residue Generation (Tonne/year)	Electrical Energy production Potential from Crop Residue (MWh/yr)
1	Badakhshan	132086	29058	2407756	452658	143550	598604
2	Badghis	68897	15157	787318	148016	138570	577837
3	Baghlan	126100	27742	1579481	296943	345860	1442236
4	Balkh	181785	39993	1045096	196478	415330	1731926
5	Bamyan	62123	13667	761429	143149	68720	286562
6	Daikondi	64021	14085	1114886	209599	46920	194405
7	Farah	70430	15495	865514	162717	90030	375425
8	Faryab	138408	30450	971824	182703	323040	1350830
9	Ghazni	170645	37542	1212019	227860	322200	1343574
10	Ghor	95651	21109	1236102	232387	97470	406450
11	Herat	259880	57174	2258046	424513	415470	1732510
12	Hilmand	128407	28250	2033377	382275	482920	2013776
13	Jawzjan	74767	16449	403238	75809	217440	906725
14	Kabul	576744	126883.6	367493	69089	111000	465372
15	Kandahar	168061	36973	2164179	406866	266440	1111055
16	Kapisa	61291	13484	911902	171438	108020	442103
17	Khost	79833	17563	1956218	367769	90290	376509
18	Kunar	62605	13773	1669748	313913	107680	449026
19	Kunduz	139255	30636	2066156	388437	446790	1863114
20	Laghman	61919	13622	1431920	269201	156870	654148
21	Logar	54473	11984	386770	72713	202020	842423
22	Nangarhar	209656	46124	3333441	626687	419610	1749774
23	Nimroz	22864	5030	252388	47449	71730	299114
24	Nooristan	20571	4526	832461	156503	22420	93491
25	Paktia	76650	16863	1263836	237601	147740	616076
26	Paktika	60415	13291	768082	144469	114090	475755
27	Panjshir	21331	4693	197212	37076	44560	185815
28	Parwan	92214	20287	892559	160281	135580	565369
29	Samangan	53845	11846	282627	53134	99890	416541
30	Sar-i-pol	77672	17088	664815	124985	147900	616743
31	Takhar	136320	29990	1434745	269732	365550	1524344
32	Uruzgan	48691	10712	847924	159410	140190	584592
33	Wardak	82670	18231	451688	84917	127030	529715
34	Zabul	42238	9292	374493	70405	62700	261459
	Sub Total	3723015	819063	39187641	7367277	6494820	27083399
	TOTAL ENERGY PRODUCTION FROM BIOMASS RESOURCES						

Plant Size (Cubic meter)	Average Daily Manure Required (Kg)	Approximate No. of Cattle	No. of family members that could be served
1	25	2-3	3-4
2	50	4-6	6-8
3	75	6-9	9-12
4	100	8-12	12-16
5	125	10-15	15-20
6	150	12-18	18-24

* To convert MSW, Animal Manure and Crop residues to electricity, the coefficients used are 550kwh/tonne of organic waste, 155 kwh/tonne of Animal Manure and 4170 kwh/tonne of Crop residues respectively.
Source: "Assessment of Biomass Resources in Afghanistan" by NREL - January 2011

Biomass Investment Opportunity

Daily Waste Dispatched 2500 tons

Percentage of Organic Waste 50-70%

Calorific value of organic Waste 2800 kcal/kg

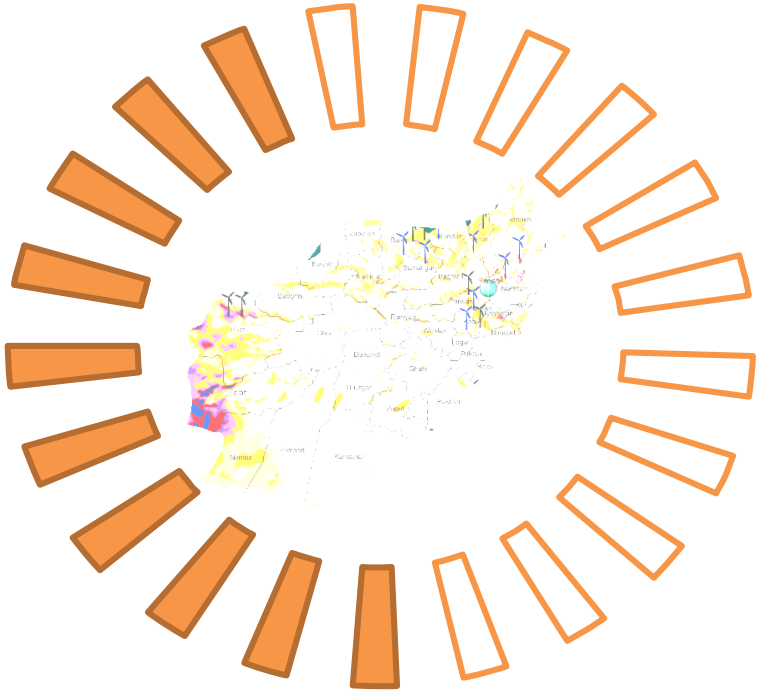
Steps Taken by Project Team

- Survey and data collection of project has been done.
- The Pre-feasibility study of project has been conducted.
- The require land of the project is identified.

Steps Needed

- Invesetment Proposal
- HEC Approval
- PPA Contract
- Revenue Collection

Kabul, Khak-e-Jabar Biomass Power Plant



Transmission Line and Substation Investment Opportunity List

No	Project	Location	Capacity	Category
1	TAPP-500 Transmission Line (500 kV) from Mary to Herat 96 km, Herat-Kandahar 570 km, Kandahar to Quetta 112 km. Substations in Herat 500/220/20 kV, 3×133 MVA and Kandahar 500/220/20 kV, 3×160 MVA	Herat, Kandahar	500 kV	Transmission line & Substation
2	Transmission line from Shindand to Farah (176km)	Herat, Farah	220Kv	Transmission Line
3	Transmission Line from Pole-Hashemi to Shindand (135km)	Herat	220Kv	Transmission Line
4	Transmission Line from Ghazni to Sharana (68.5km)	Ghazni, Paktika	220Kv	Transmission Line
5	Transmission Line from Gulbahar to Panjshir (18.4km)	Gulbahar	110KV	Transmission Line
6	Transmission Line from Gulbahar to Barik Aab (38km)	Gulbahar	220Kv	Transmission Line
7	Farah Substation (2x40MVA)	Farah	220/20	Substation

Transmission Lines and Substations Investment Opportunity List

No	Project	Location	Capacity	Category
8	Sharna New Substation & Ghazni Substation Expansion (2x16MVA)	Ghazni, Paktika	220/20	Substation
9	Panjshir Substation (2x16MVA)	Panjshir	110/20	Substation
10	Sheen Dand Substation (2x16MVA)	Herat	220/20	Substation
11	Adraskan Substation (2x16MVA)	Herat	220/20	Substation
12	Mohammad Agha Substation	Logar	220/20	Substation
13	Barikab 220/20 kV substation	Parwan	220/20	Substation
14	Darulaman Substation (2X40)	Kabul	220/20	Substation

Why to Invest in Afghanistan's Energy Sector?

Financial & Economic Advantages

- Government supports the investments;
- Investment opportunities with high return;
- Reliable investment & PPP models;
- Low cost for doing business;
- Market with few competitors;
- Abundant of natural resources;
- Young and inexpensive labour force;
- Centre for resolution of trade disputes;
- Access to the global market through regional relationships;
- Bilateral and multilateral trade agreements;
- Membership in the World Trade Organization.

Our Facilities to the Investors

- Illuminating the investment opportunities to the investors;
- Providing required information on investment opportunities;
- Providing land in coordination with other authorities for implementing the projects;
- Facilitating the legal framework for the implementation of the projects;
- Facilitating the administrative processes of the projects;
- Providing technical support to the investors as required;
- Granting VGF as per the significance of the projects.

DABS 144 BRESHNA BRINGS LIGHTS

Investment Steps

Step 1: Investors to send an official "Letter of Interest" to DABS to express their investment interest, and DABS to introduce investment opportunities to the investors & requests the required information;

Step 2: Investor to submit the "Concept Proposal" to the Inter-Ministerial Investment Committee of the Economic Deputy of the Prime Minister of the Islamic Emirate of Afghanistan, and the Inter-Ministerial Investment Committee will refer the "Concept Proposal" to DABS / related authorities for analysis, review and negotiation;

Step 3: DABS to review the "Concept & Final Proposal" technically, financially & legally in coordination with related authorities, and the Investor to conduct "Feasibility & Technical Studies" of the specific project in coordination with DABS;

Step 4: Investor to submit "Final Proposal" including "Detailed Financial Model" of specific project to DABS, and negotiations on technical, financial, commercial/tariff and legal issues will be held between DABS and the investor;

Step 5: DABS to present the "Investment Proposal Report" for confirmation/approval to DABS Senior Management Group "SMG" meeting, and subsequently to present the "Final Investment Proposal Report" to the related authorities, Inter-Ministerial Investment Committee and to the Economic Commission of I.E.A for approval;

Step 6: The Investment Agreement/PPA will be arranged and signed between the parties, and finally will be approved by the Economic Deputy of the Prime Minister of the Islamic Emirate of Afghanistan.

Investment Models

We are ready to Facilitate and Accept investments in the electricity sector, within the framework of the following models:

- **Musharakah**
- **Murabaha (Cost - Plus Financing)**
- **Joint Ventures**
- **Public Private Partnership (PPP) Models**
  - Build-Operate- Transfer (BOT)
  - Build-Own-Operate (BOO)
  - Build-Transfer (BT)
  - Build-Own-Operate- Transfer (BOOT)

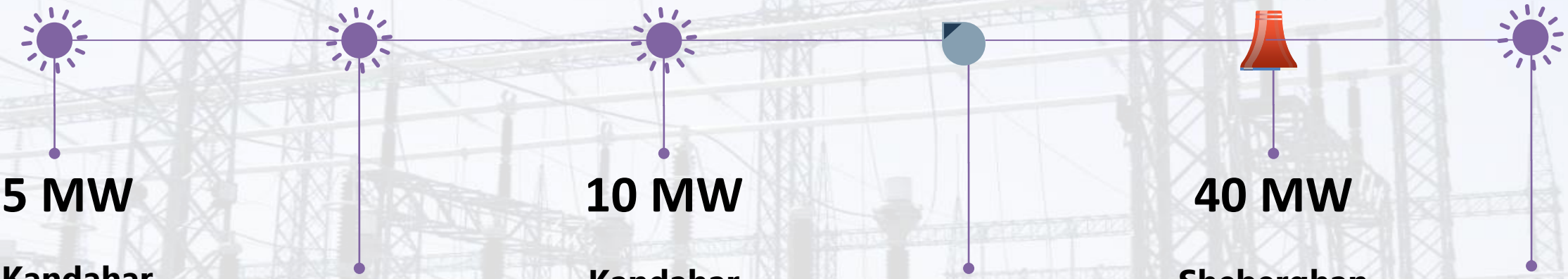
While DABS recommends these models for investment, it is flexible to negotiate any other model suggested by investors, provided that it does not conflict with Islamic law and regulations.

Our Collaboration Frameworks

We frame our collaborations in the following legal frameworks:

- Bilateral and Multilateral Memorandum of Understanding (MOU)
- Investment and Partnership Agreements
- Implementation Contract
- Investment Return Agreement
- Power Purchase Agreement (PPAs):

Signed PPA's (Operational)



15 MW

Kandahar
77 Construction Co.

15 MW

Kandahar
Zularistan

10 MW

Kandahar
Dynasty

151.5 MW

Helmand (Kajaki)
77 Construction Co.

40 MW

Sheberghan
Bayat Power

22.75 MW

Kabul(Naghlu)
Zularistan &77
Construction

The 40 MW Sheikh Mesri SPP and 50MW TPP have been approved and is currently under (PPA) preparation.

Agreements Signed Since 2021

No	Project Name	Location	Investor	Status
1	Sheburghan-Dasht E Alwan 500kV, 305.17km Transmission line	Baghlan	Afghan Invest	Under Work
2	Dasht E Alwan Substation Extension (Line Bay, Reactor Bay including Reactors)	Baghlan	Afghan Invest	Under Work
3	Noorul Jehad SS- Pul e Hashemi SS Single Circuit 40km, 220kV Transmission Lie	Herat	ZASU AFG KABUL MELLI	Agreed
4	Pul E Hashemi (2x43+2x60) MVA Substation	Herat	ZASU AFG KABUL MELLI	Agreed
5	Procurement and Installation of 2x40MVA Mobile GIS Substation	Herat	ZASU AFG KABUL MELLI	Agreed
6	Dasht E Alwan – Arghandi 500kV, 278km Transmission Line Extension	Baghlan - Kabul	Awfi Bahram Construction	Under Work
7	Arghandi 400MVA Substation Remaining works	Kabul	Awfi Bahram Construction	Under Work
8	2x80MVAR Reactor bay Procurement and Installation in Arghandi Substation	Kabul	Awfi Bahram Construction	Under Work
9	Tarkhil New (2X63MVA-220/110KV & 2X63MVA-220/20KV) Substation	Kabul	Awfi Bahram Construction	Under Work
10	220kV, Double circuit 23km Transmission line from Chemtala to Tarakhil	Kabul	Awfi Bahram Construction	Under Work
11	Butkhak New (2X63MVA-220/110KV & 1X63MVA-220/20KV) Substation	Kabul	Awfi Bahram Construction	Under Work
12	220kV, Double circuit 54km Transmission line from Arghandi to Connection Point and Butkhak Substation	Kabul	Awfi Bahram Construction	Under Work

Proposals Waiting for Approval

No	Project Name	Location	Capacity (MW)	Investor
1	5MW Solar Power Plant	Herat	5	Etemad Solar
2	10MW Solar Power Plant	Khost	10	Biltek
3	40MW Solar Power Plant	Bagrami- Kabul	40	Kabul Melli
4	100MW Solar Power Plant	Kabul	100	Zularistan and Ghazanfar Group
5	40MW Solar Power Plant	Dehdadi-Balkh	40	Zularistan and Ghazanfar Group
	40MW Solar Power Plant	Guzara- Herat	40	Kabul Melli/Regal and Ghazanfar Group
6	40MW Solar Power Plant	Deh Sabz- Kabul	40	Kabul Melli
7	43.2MW Wind Power Plant	Herat	40	77CC
8	100MW Thermal Power Plant	Kabul	50-100	FAJR E MAIHAN/Zwak Power
9	40MW Solar Power Plant	Mohammad Agha-Logar	40	Regal and Ghazanfar Group


Thank You!