

TAJIKISTAN'S ENERGY PROFILE - POTENTIAL & PERSPECTIVES







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MINISTRY OF ENERGY AND WATER RESOURCES OF THE REPUBLIC OF TAJIKISTAN

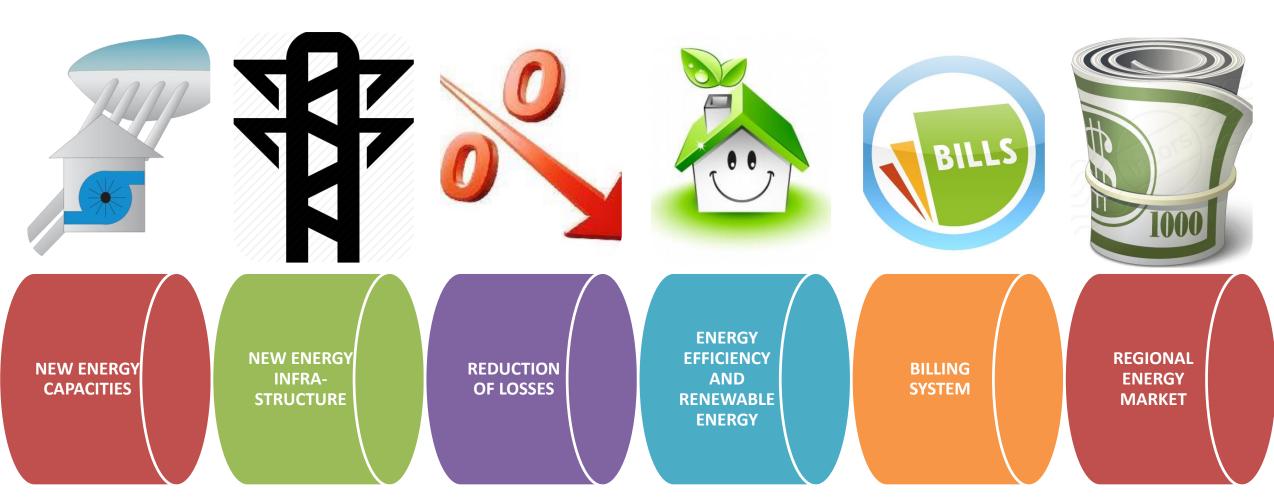
Strategic goals of Tajikistan







Energy Security



Tajikistan Energy Profile







- Of these, 95% hydro and 5% thermal power stations
- The annual generation more than 17-20 billion. KW. hour
- Excess of hydropower in the summer months (from 3 to 5 billion. KW. hour)

Winter energy shortages more than 1-1.5 billion. KW. hour





PROJECTED PRODUCTION CAPACITIES 10 GWT

ELECTRICITY
EXPORT
10
BILLION
KWT PER HOUR

STABLE AND RELIABLE PROVISION
OF ELECTRICITY POWER TO
POPULATION AND COUNTRY'S
ECONOMY

ELECTRICITY LOSSES DOWN BY 10 %

PRODUCE AND SAVE 500

MILLION

KWh/year

USING RENEWABLE SOURCES (Solar, Wind, Small Hydro)



Completed
Projects

1.9 billion USD

Ongoing Projects
793,7 million USD

Projects
on design and
preparation stage
906,0 million USD



Completed Projects 1.7 billion USD

- EMERGENCY BAYPAZA HPP LANDSLIDE STABILIZATION
- RECONSTRUCTION OF DUSHANBE CITY ELECTRICAL NETWORKS
- CONSTRUCTION OF MHPP IN RURAL AREAS OF THE REPUBLIC OF TAJIKISTAN
- CONSTRUCTION OHL-500kV SOUTH-NORTH
- CONSTRUCTION OHL-220kV LOLAZOR-KHATLON
- ADDITIONAL WORKS OF CONSTRUCTION OHL-500/220kV SOUTH-NORTH & LOLAZOR-KHATLON
- REHABILITATION OF ENERGY SECTOR OF THE REPUBLIC OF TAJIKISTAN
- REGIONAL POWER INTERCONNETION TRASMISSION PROJECT
- RECONSTRUCTION OF 220kV SWITCHYARD AT NUREK HPP
- CONSTRUCTION OF 220KV OHL HUJAND-AYNI
- ESTABLISHMENT OF UNIFIED POWER SYSTEM OF THE NORTH OF TAJIKISTAN
- ENERGY LOSS REDUCTION PROJECT IN DUSHANBE CITY
- CONSTRUCTION OF SANGTUDA HPP-1
- CONSTRUCTION OF SANGTUDA HPP-2
- CONSTRUCTION OF SMALL HPP IN RURAL OF TAJIKISTAN
- REPLACEMENT OF 220 kV SUBSTATION at NUREK HPP



Ongoing Projects 827,5 million USD

- RECONSTRUCTION OF 500KV SWITCHYARD AT NUREK HPP
- REGIONAL POWER TRANSMISSION PROJECT
- REHABILITATION OF 500KV REGAR SUBSTATION
- ENERGY LOSS REDUCTION PROJECT
- ENERGY LOSS REDUCTION PROJECT IN SUGHD REGION
- CONSTRUCTION OF DUSHANBE -2 TPP SECOND PHASE
- GOLOVNAYA 240 MW HPP REHABILITATION PROJECT
- REHABILITATION OF 220KV RAVSHAN SUBSTATION
- WHOLESALE METERING AND TRANSMISSION REINFORCEMENT PROJECT
- RECONSTRUCTION OF MHPP OKSU (MURGAB)



Projects on design and preparation stage
385 million USD

- REHABILITATION OF KAYRAKUM HPP
- CASA-1000



Our Development Partners



ADB 63,27 mln. USD – loan 366, 77 mln. USD –grant



SECO 19,2 mln. USD- grant



DIFID 30 mln. USD - grant



WB 97 mln. USD – grant 17,2 mln. USD - loan



OPEC 8,5 mln. USD – loan



EIB 70 mln. USD – loan



IDB 165,2 mln. USD – loans



China Eximbank 801,43 mln. USD -loan



JICA 36,1 mln. USD - grant



KfW 18,0 mln. Euro-loan 13 mln. Euro-grant



EBRD 199 mln. USD – loan 60,3 mln. USD - grant



Sangtuda HPP-1 174,6 mln. USD – Taj. Gov. 524 mln. USD – Rus. Gov



KFAED 28, 4 mln. USD -loan



BT co-financing 63,63 mln. USD



Sangtuda HPP-2 40 mln. USD – Taj. Gov. 318,8 mln.USD – Iran Gov.







INVESTMENT TOOLS FOR COOPERATION IN ENERGY SECTOR



Concession Agreement & Investment Agreement

BOT, BOO

Public Private Partnership

Production Sharing Agreement



Investment Opportunities

- Improving of reliable power supply in Sughd Region
- Construction of 220/110 kV SS in the territory of Dangara Free Economic Zone
- Construction of 110/6 kV SS in north part of Dushanbe City
- Construction of 1110/6 kV GIS Glavpochtamt in Dushanbe City
- Reconstruction of 110/35/10 kV Promishlenaya in Dushanbe City
- Construction of 110/6 kV Temurmalik SS in Khujand City
- Construction of 220 kV SS and 220 kV distribution device in the territory of Dushanbe-1 Heat and Power Station
- Construction of 220/110/10 kV Bahoriston SS
- Construction of 220 kV OHL Sughd Khujand and construction of Khujand SS
- Construction of 220 kV OHL Konibodom Asht
- Energy Loss Reduction Project in KurganTyube Region
- Energy Loss Reduction Project in Regions of Republican Subordination
- Energy Loss Reduction Project in Tursunzoda District
- Energy Loss Reduction Project in Kulob District
- Construction of 220 kV Sharshar Lolazor
- The implementation of energy projects to improve electricity supply of cities and districts of Khatlon Region
- Reconstruction of 220/110/10 kV Orjonikidzeabad-2 SS
- Construction of 500 kV OHL Tajikistan Pakistan
- Construction of 500 kV OHL Tajikistan –Afghanistan-Iran



Investment Opportunities

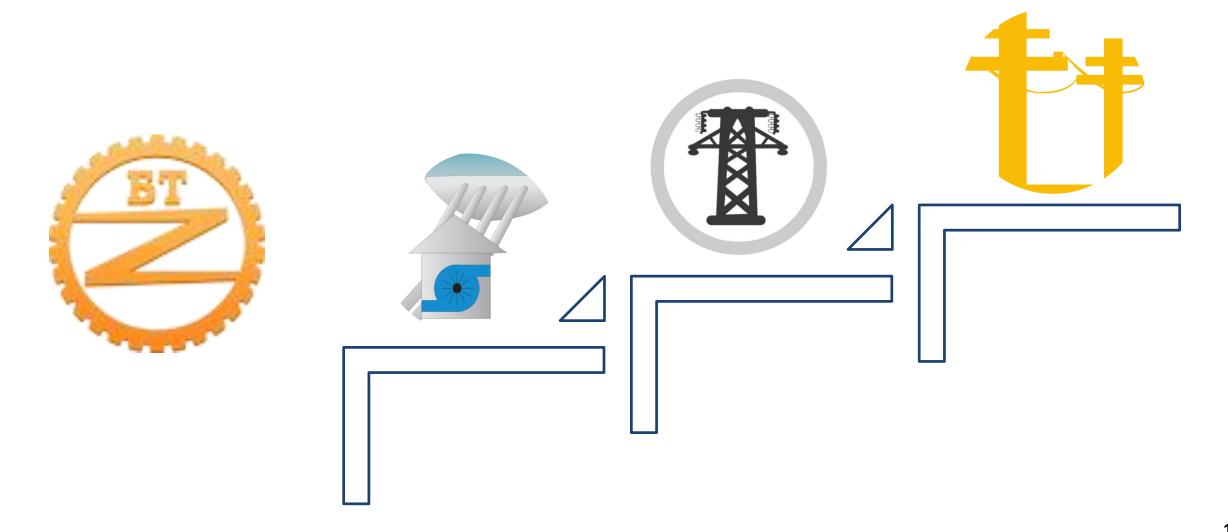


- Construction of Fon-Yagnob TPP
- Rehabilitation of Nurek HPP
- Construction of Sebzor HPP
- Construction of Sanobod HPP
- Construction of Nurobod-1 HPP
- Construction of Nurobod-2 HPP
- Construction of Fondarye HPP
- Construction of Ayni HPP
- Construction of Shurob HPP
- Construction of Dombrachi HPP
- Construction of Nurek-2 HPP
- Construction of Oburdon HPP
- Consrtruction of Shurob TPP









Prospective Projects Improvement of Electrical Networks





Construction of bypass tunnel at Baypaza HPP



Construction of 220 kV susbtation in Dushanbe City



Rehabilitation of HV & LV electrical networks with installation of automated billing system in Kurgonteppa, Kulob, Tursunzoda, Rasht and Regions of Republican Subordination's electrical networks



Construction of 220/110/10 kV Bahoriston substation in Instaravshan district of Sughd Region



Construction of 220 kV OHL Sughd-Khujand-Kayrakum with 220/110/10 kV Substation



Reconstruction of 110/35/6 kV Kulob substation



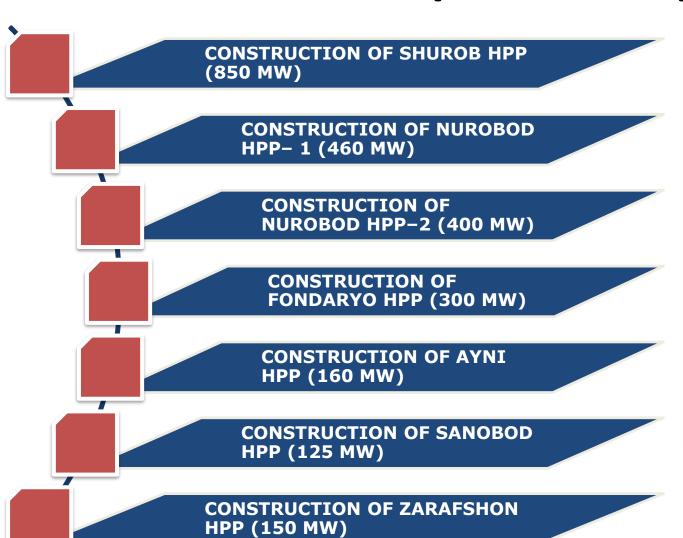


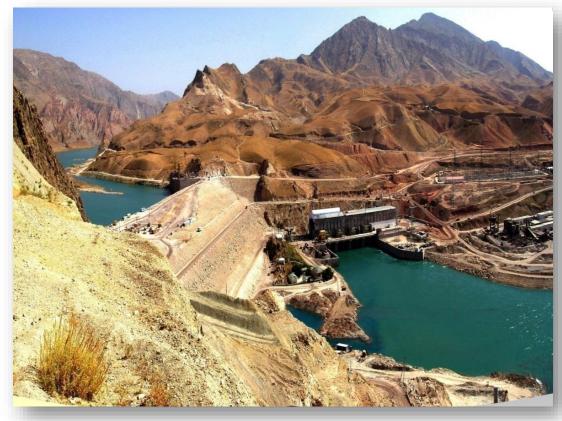
Feasibility Study





Prospective Projects - HPP







Power Sector Development Prospective Projects -Thermal

DUSHANBE-2 TPP 2x150 MW – SECOND PHASE (300 MW)

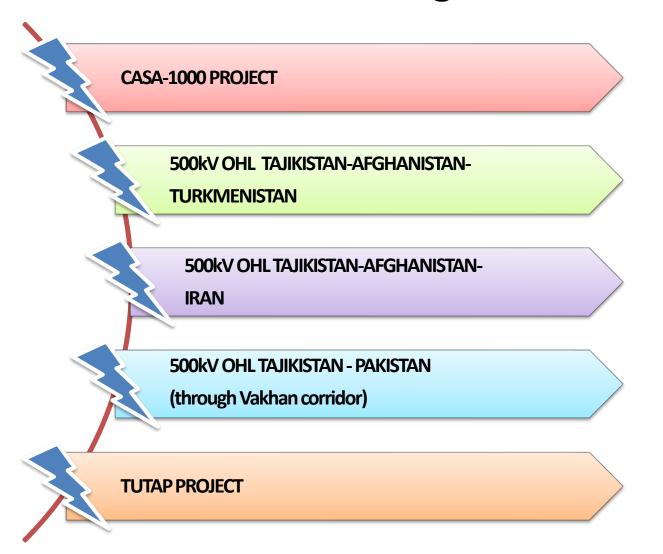
SHUROB TPP (300 MW)

FON YAGNOB TPP (700 MW)



Power Sector Development Regional Initiatives - OHL









Thank you for your attention !!!

