



TAJIKISTAN'S ENERGY PROFILE - POTENTIAL & PERSPECTIVES

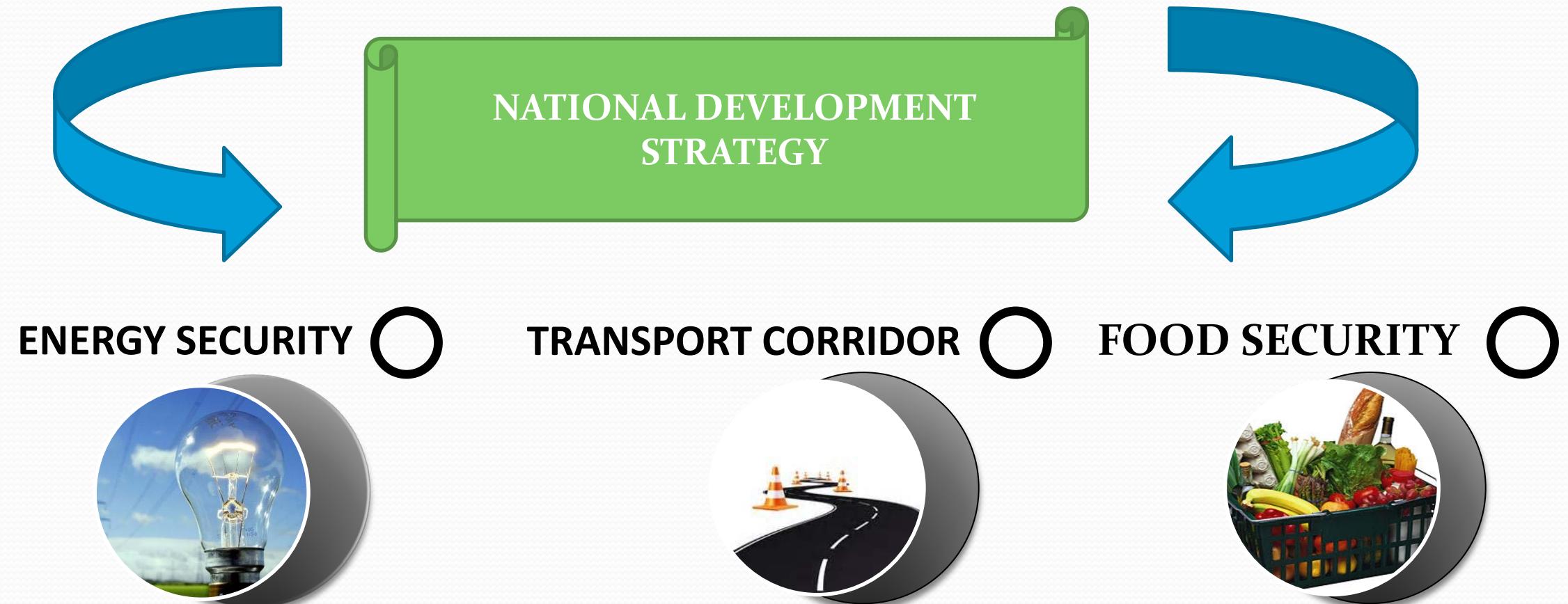


Mokhira Radjabova

Open Stock Holding Company “Barqi Tojik”

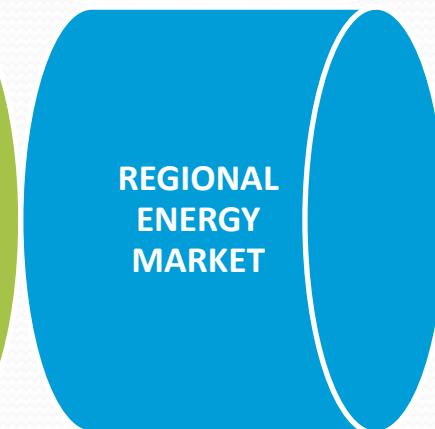
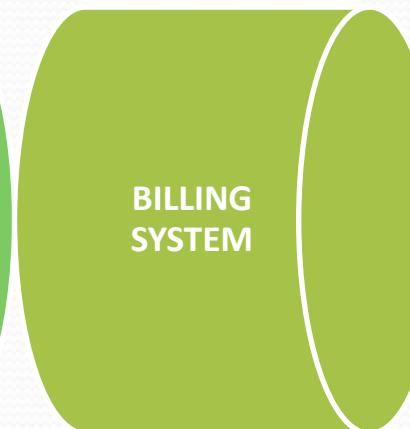
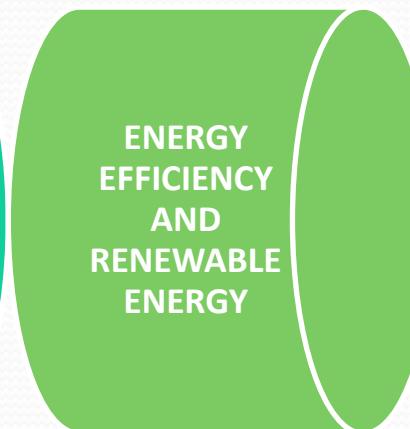
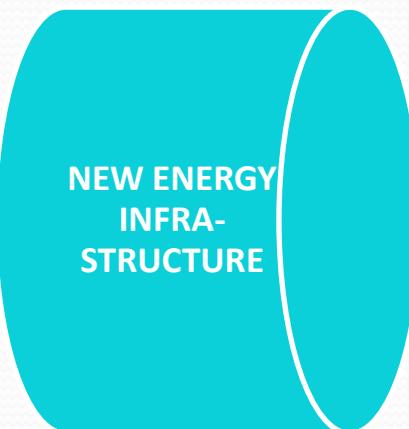
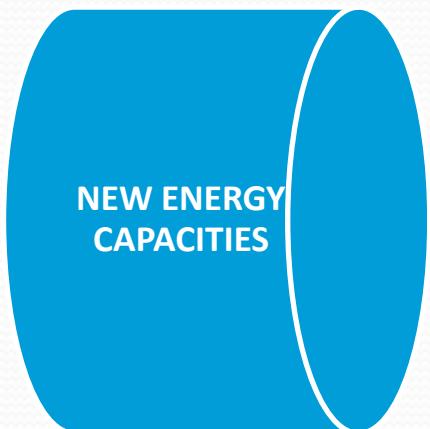
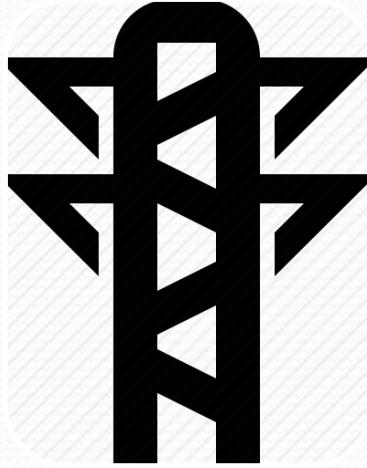
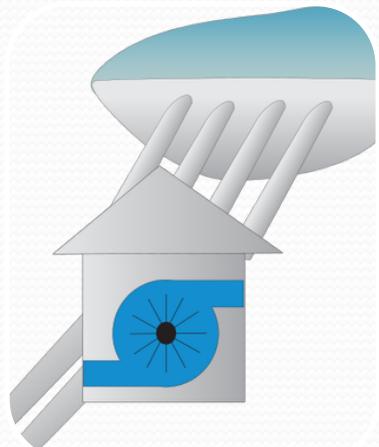


Strategic goals of Tajikistan





Energy Security





Tajikistan Energy Profile



Potential for generate 527 billion. KW. hours per year

The installed capacity of power plants of 5400 MW

Of these, 95% hydro and 5% thermal power stations

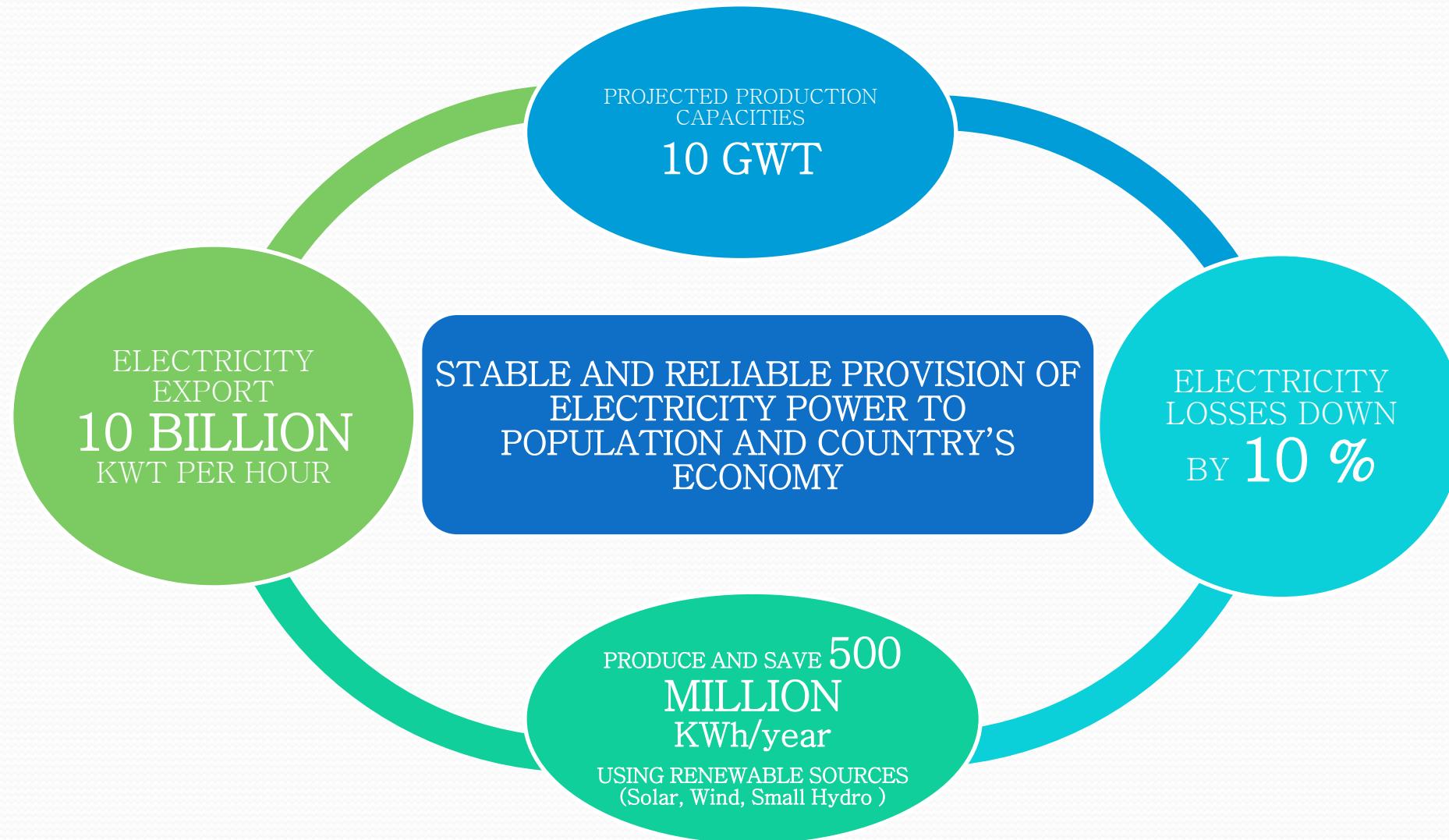
The annual generation more than 17-20 billion. KW. hour

Excess of hydropower in the summer months
to 5 billion. KW. hour) (from 3

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



Long-term objectives – until 2030





Power Projects Implementation

Completed
Projects

1.7 billion USD

Ongoing Projects

827,5 million USD

Projects
on design and
preparation stage
385,0 million USD



Power Projects Implementation

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 INTERCONNECTION 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



Power Projects Implementation

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)



Power Projects Implementation

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



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



IDB
165,2 mln. USD – loans



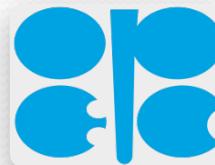
KfW
18,0 mln. Euro-loan
13 mln. Euro-grant



KFAED
28,4 mln. USD -loan



SECO
19,2 mln. USD- grant



OPEC
8,5 mln. USD – loan



China Eximbank
801,43 mln. USD -loan



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



BT co-financing
63,63 mln. USD



DIFID
30 mln. USD - grant



EIB
70 mln. USD – loan



JICA
36,1 mln. USD - grant



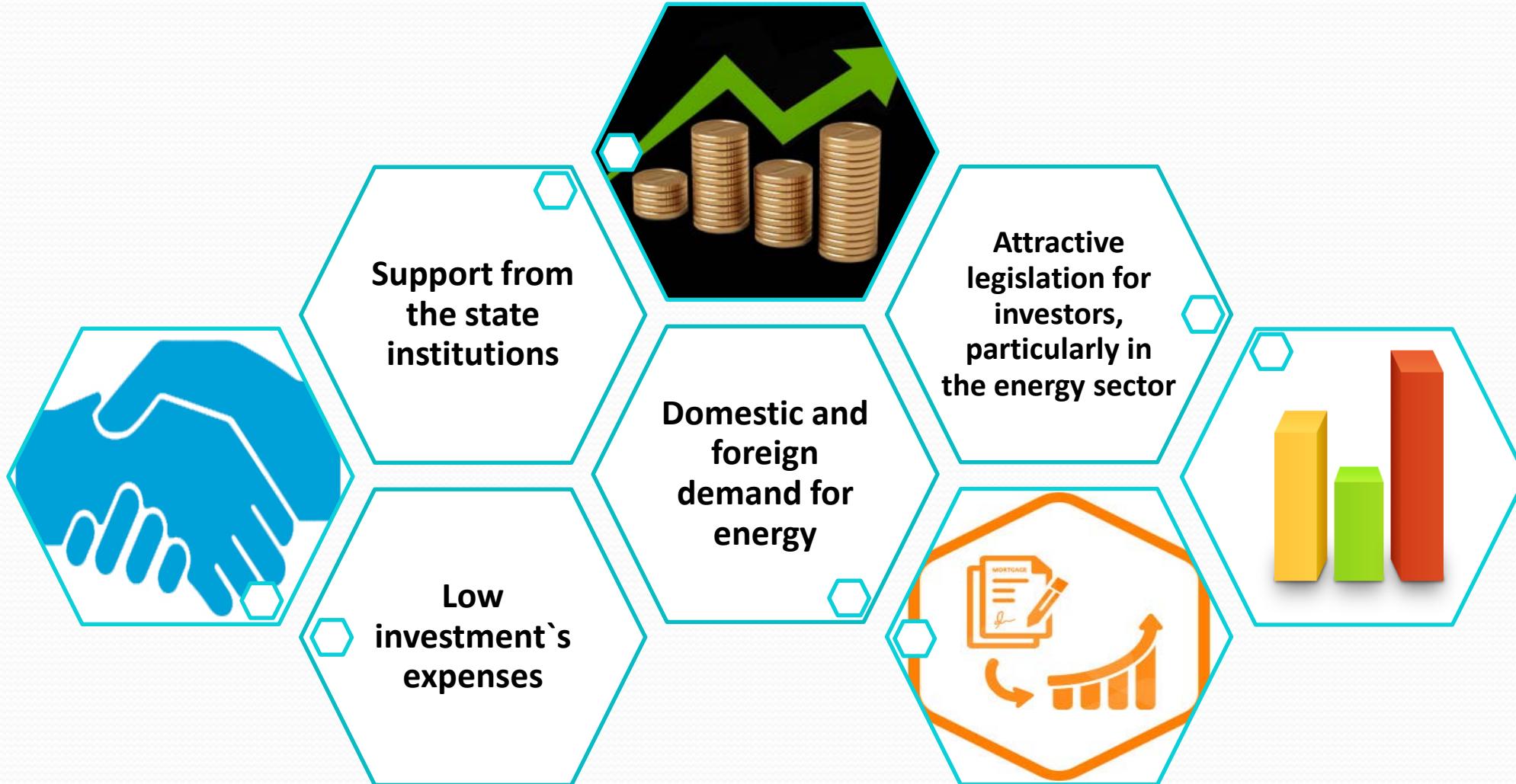
Sangtuda HPP-1
174,6 mln. USD – Taj. Gov.
524 mln. USD – Rus. Gov



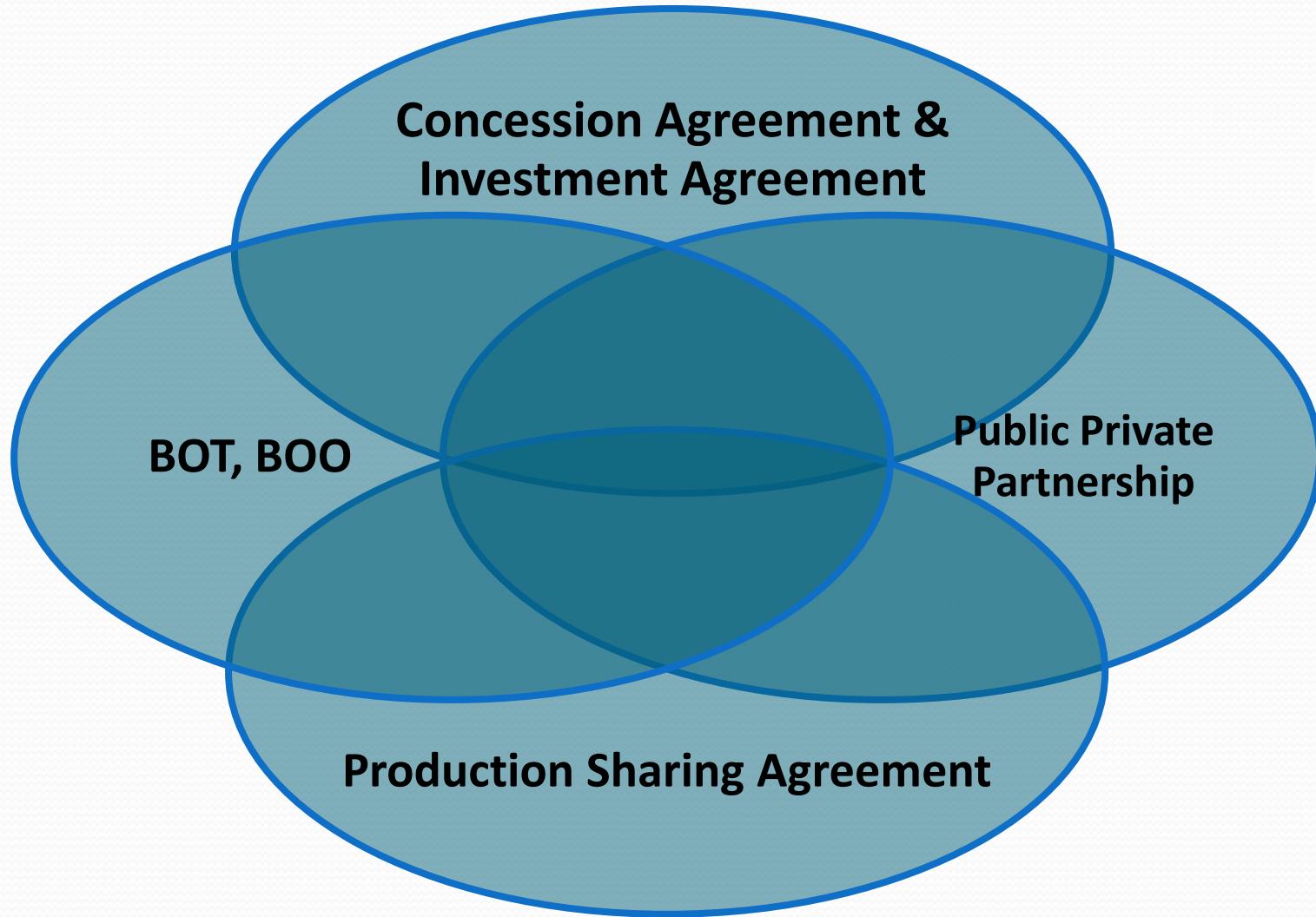
Sangtuda HPP-2
40 mln. USD – Taj. Gov.
318,8 mln.USD – Iran Gov.



Investment opportunities of the energy sector



INVESTMENT TOOLS FOR COOPERATION IN ENERGY SECTOR





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 110/6 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





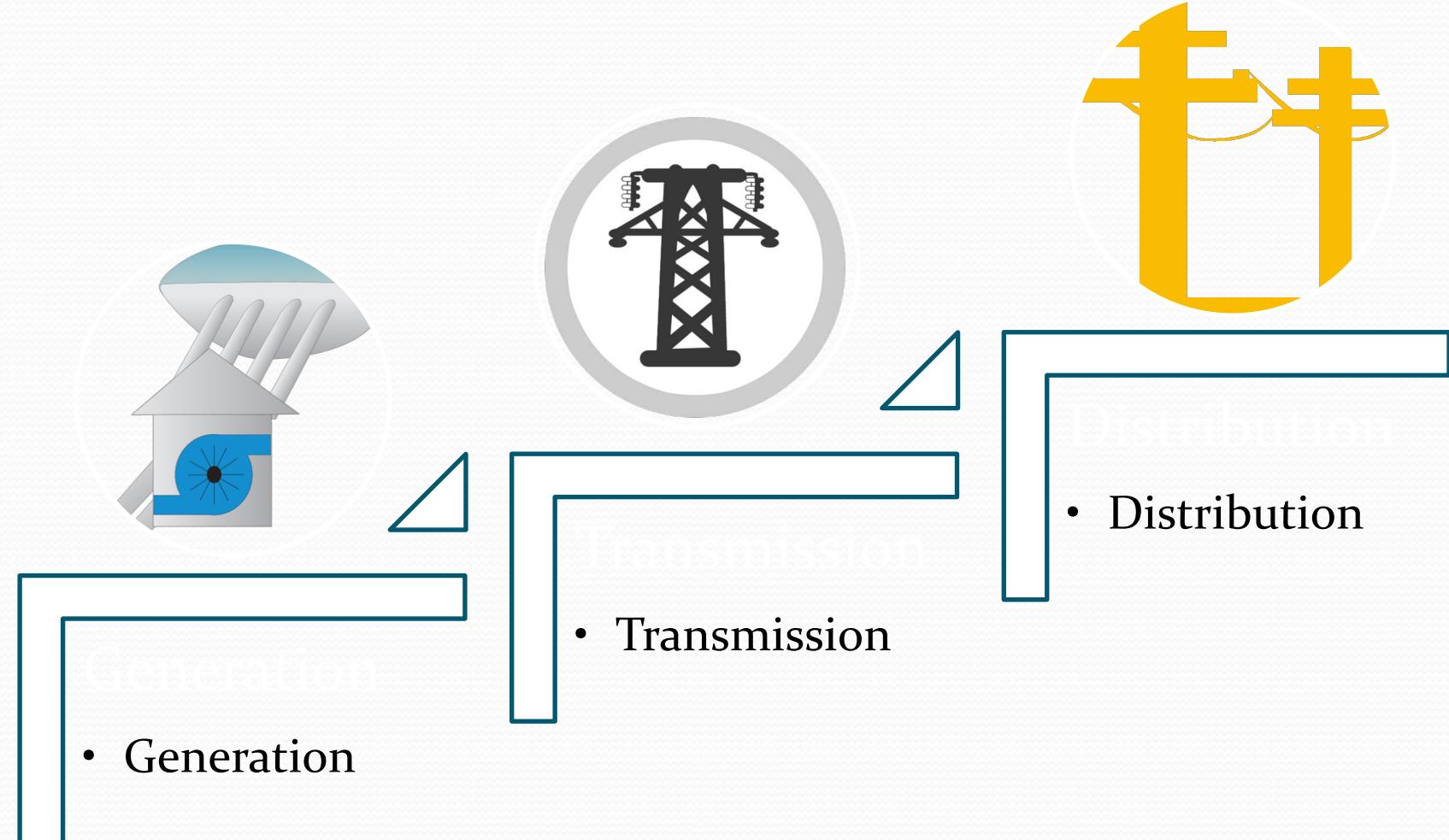
Investment Opportunities

- 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
- Construction of Shurob TPP





Unbundling of Barki Tojik





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





Prospective Projects - HPP

CONSTRUCTION OF SHUROB HPP
(850 MW)

CONSTRUCTION OF NUROBOD
HPP- 1 (460 MW)

CONSTRUCTION OF
NUROBOD HPP-2 (400 MW)

CONSTRUCTION OF
FONDARYO HPP (300 MW)

CONSTRUCTION OF AYNI
HPP (160 MW)

CONSTRUCTION OF SANOBOD
HPP (125 MW)

CONSTRUCTION OF ZARAFSHON
HPP (150 MW)





Power Sector Development Prospective Projects -Thermal

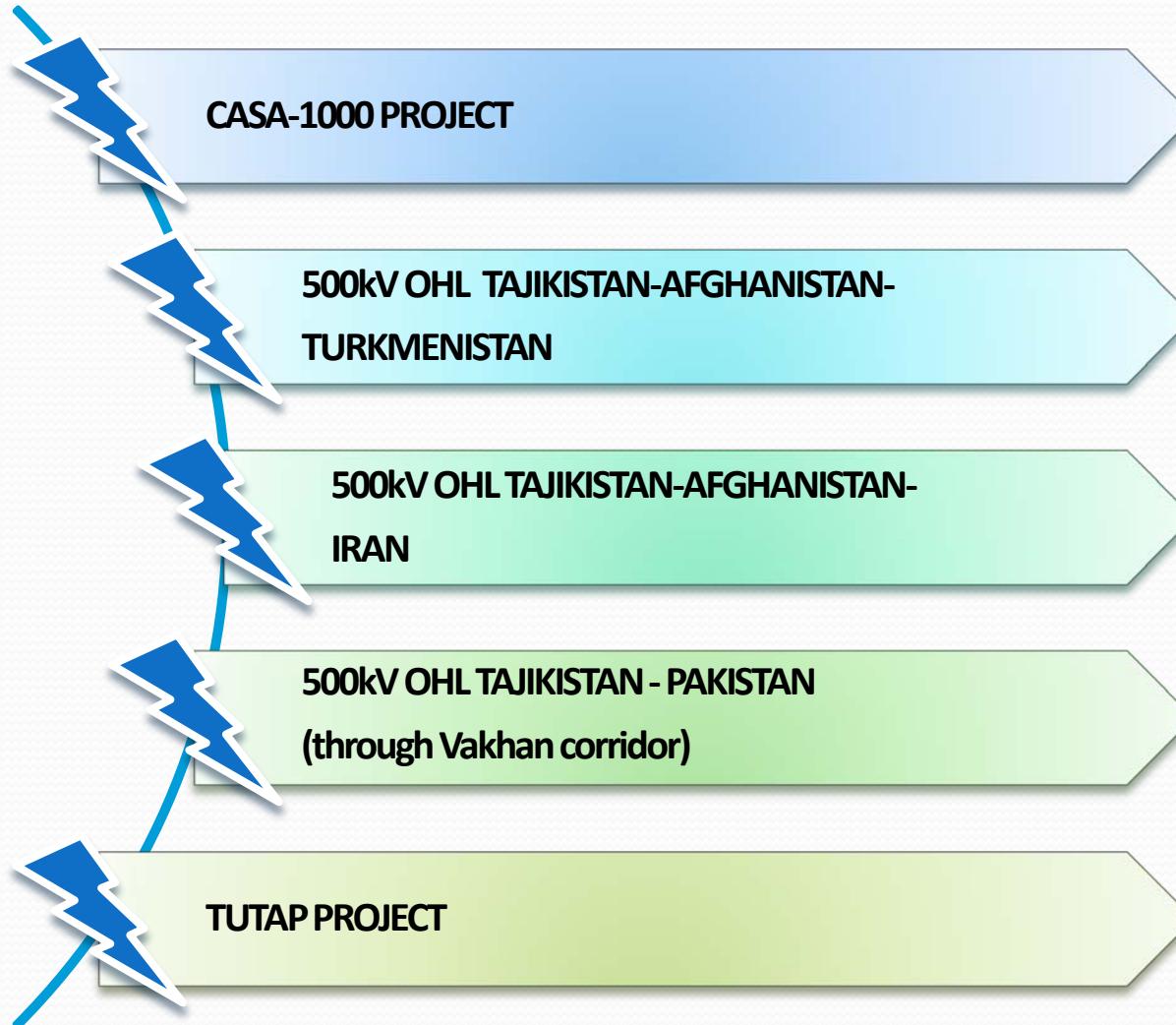
DUSHANBE-2 TPP 2x150 MW –
SECOND PHASE (300 MW)

SHUROB TPP (300 MW)

FON YAGNOB TPP (700 MW)



Power Sector Development Regional Initiatives - OHL





Thank you for your attention !!!



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