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Prospective Investment Projects



GICC 2017
Seoul, Korea
GLOBAL INFRASTRUCTURE COOPERATION CONFERENCE

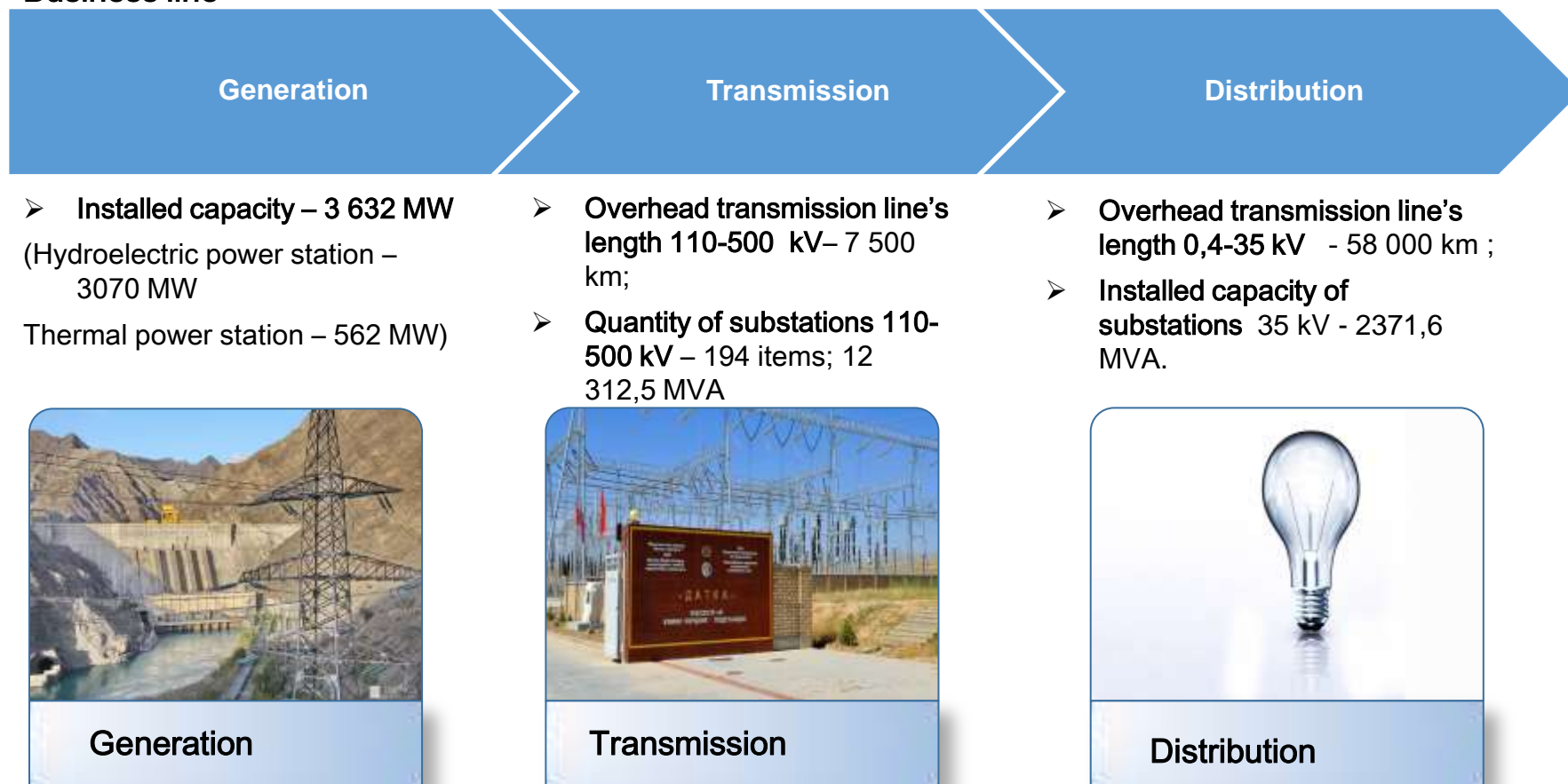
Key indicators

- Staff - 15 700 employees;
- Average year generation of e/p - 13 billion kWh;
- Average year generation of t/p - 2 000 Gcal;

Sector Prospects

- 7 cascades of 27 hydro power plants can be constructed on the Naryn River;
- Summary installed capacity of prospective Cascades is 5 600 MW.

Business line



Ongoing energy projects



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Heat supply Improvement Project

31,6 mln.\$

Electricity Supply Accountability and Reliability Improvement Project

25 mln.\$



Islamic Development
Bank

Improvement of power supplies of Bishkek and Osh

23,08 mln.\$

Improvement of electricity supply in arka area of batken region project

16,25 mln.\$



Energy sector development

44,8 mln.\$

Rehabilitation of the energy sector (Rehabilitation of the Toktogul HPP)

275 mln.\$



Rehabilitation of the energy sector (Rehabilitation of the Toktogul HPP)

140 mln.\$

Commissioning of the second hydroelectric unit of Kambarata HPP-2

110 mln.\$

Ongoing energy projects



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KFW

"Improvement of the local network in Bishkek" and
"Improving the efficiency of electricity distribution networks"

31 mln.EUR

In the framework of achieving one of the priority
Development of the energy sector - increase
Export potential - work is under way on
Implementation of the CASA 1000 project



European Bank
Reconstruction and Development

Rehabilitation of JSC "Oshelectro"

5 mln. EUR

Reconstruction and construction of
pumping stations

11,1 mln.\$

Staatssekretariat für Wirtschaft
Secrétariat d'Etat à l'économie
Segreteria di Stato dell'economia
State Secretariat for Economic Affairs

s e c o

Reconstruction of the At-Bashy HPP

19,82 mln.CHF



CHINA EXIM BANK
THE EXPORT-IMPORT BANK OF CHINA

Modernization of Thermal power plant
in Bishkek

386 mln.\$



70 mln. EUR



50 mln.\$



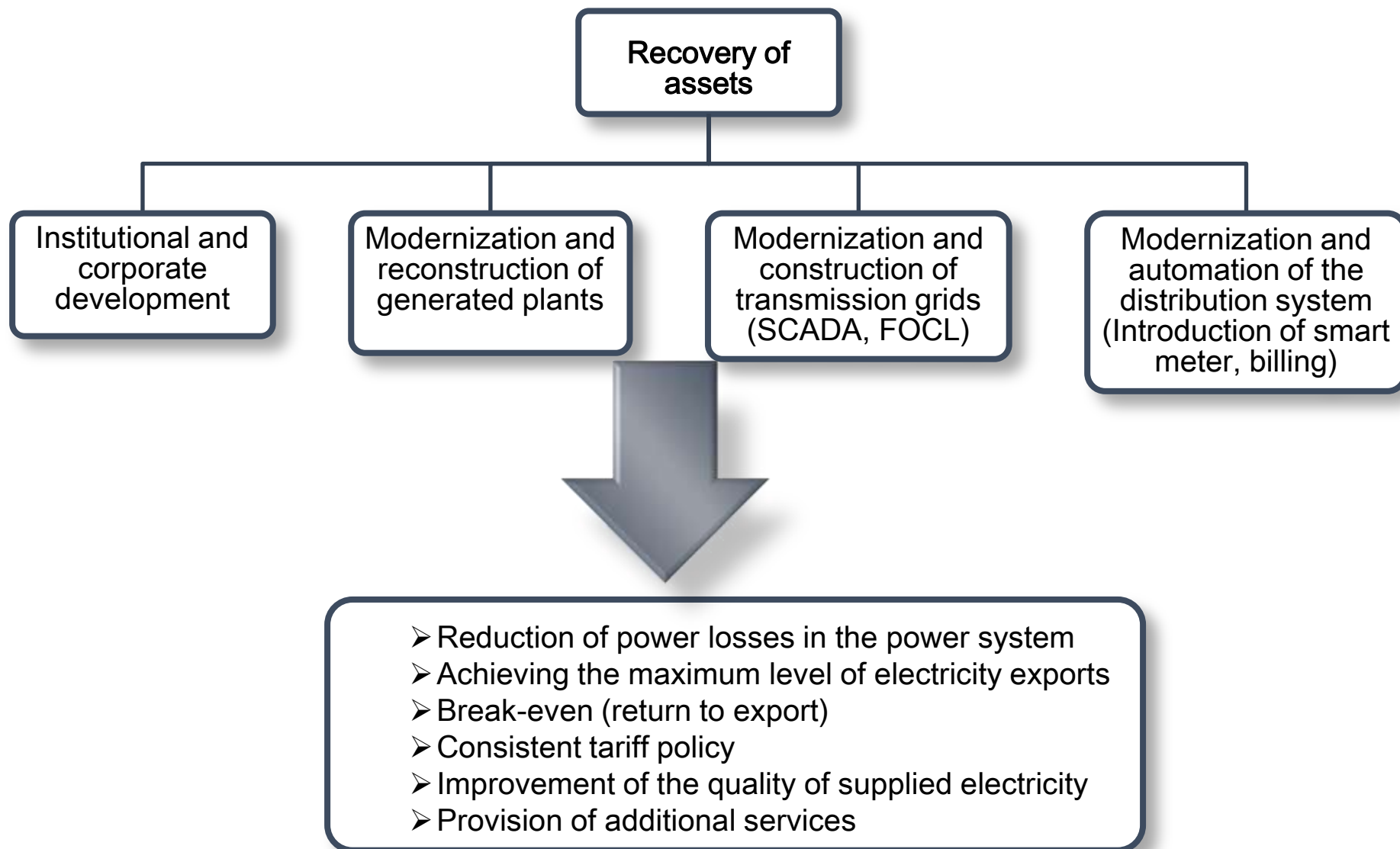
45 mln.\$



Planned outcomes of the ongoing projects



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Scheme of the high-voltage line of 500 kV of CASA-1000



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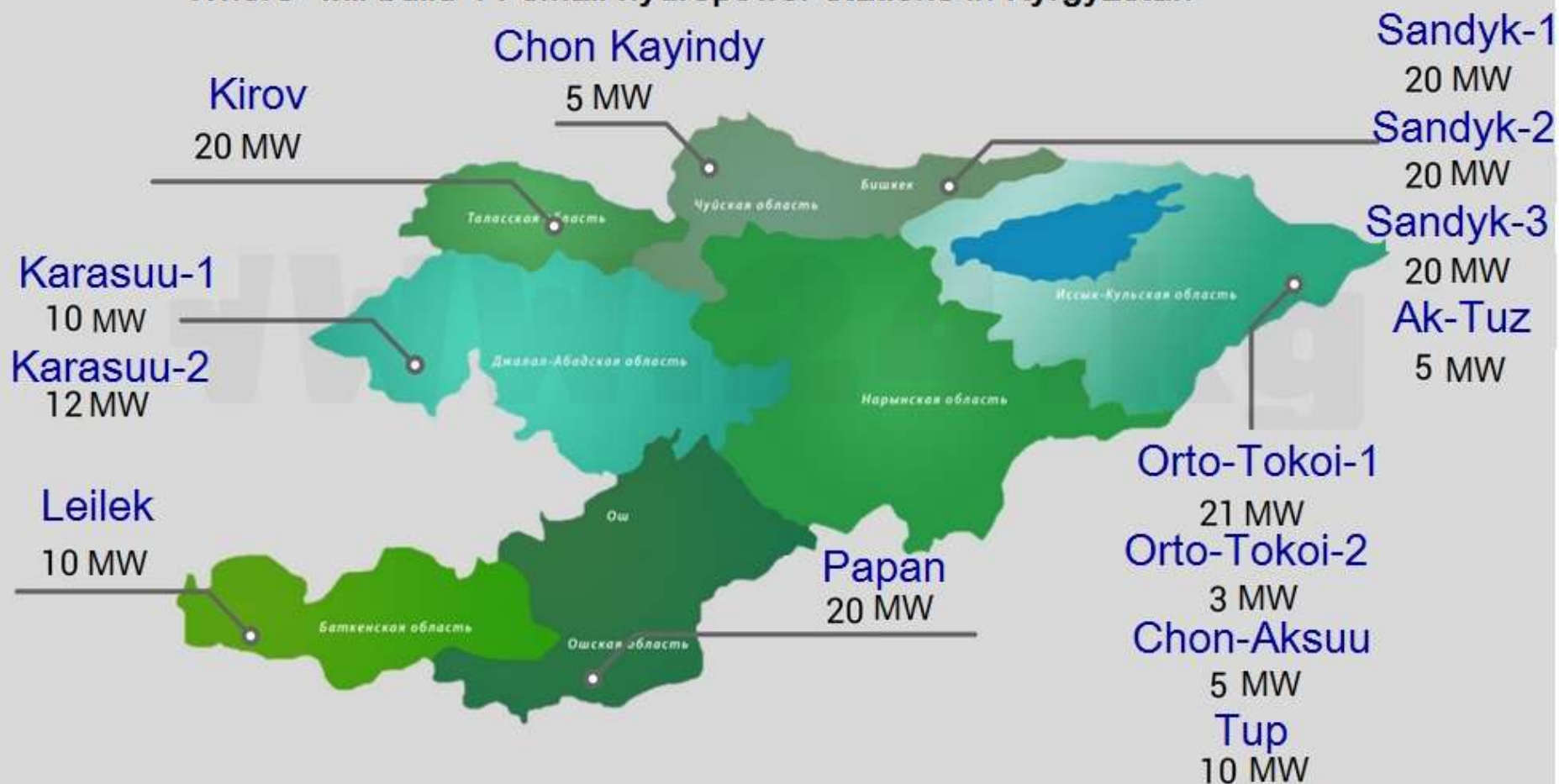
Construction of small and micro HPPs



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Government of Kyrgyz Republic announced a tender for the right to build small hydro power plants. At this time there were signed agreements on the construction of a small HPPs with one local company and one company from Czech

Where will build 14 small hydropower stations in Kyrgyzstan



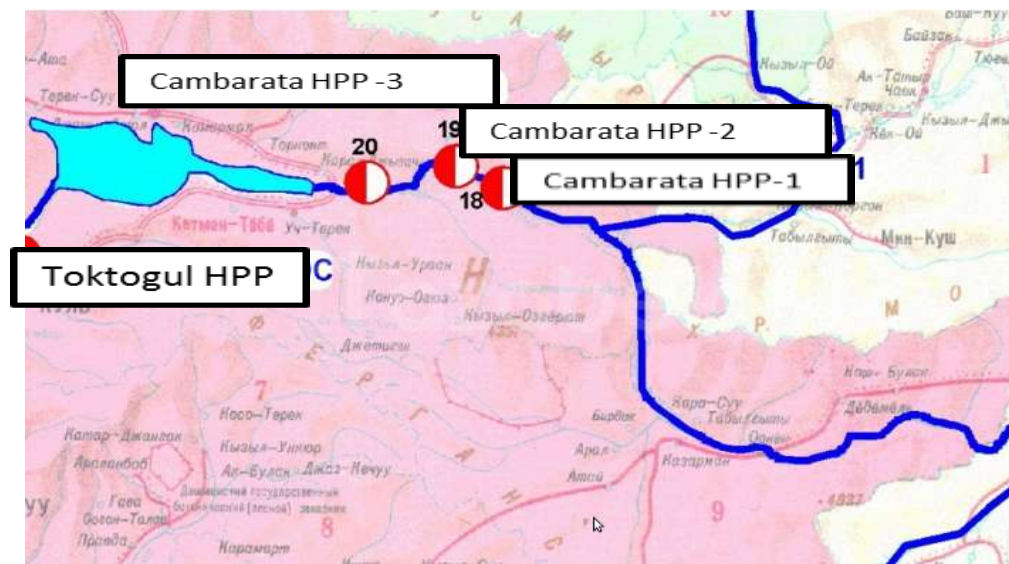
Perspective cascades of hydroelectric power stations



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Title of cascade	Installed capacity	Average annual power generation (billion kWh)	Feasibility Study
Kambarata-1 HPP	1860	5,6	2.8 billion.\$
Suusamyr-Kokomeren cascade of HPP	1305	3,3	3,3 billion.\$
Kazarman cascade of HPP	1160	4,7	preparation is necessary
Kulanak cascade of HPP	439	2,6	preparation is necessary
Ala-Buga cascade of HPP	414	1,7	preparation is necessary
At-Bashy cascade of HPP	172,2	0,9	preparation is necessary

Construction of Kambarata-1 HPP




Installed capacity	N=1860 MW
Normal headwater level	NHL=1198,00 m
The average annual power generation	5, 64 billion kWh;
Rated head	210 m
Effective capacity of water reservoir	2,73 km ³
Tentative cost of construction	2868,5 million US dollars

Main phases of construction



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Preparatory period	12 months
Construction and operational spillway #1,#2	15 months
The Naryn river closing	after 24 months
Construction of rock-fill dam.....	84 months
First aggregate startup.....	72 months
Second aggregate startup	84 months
Third aggregate startup.....	92 months
Kambarata-1 HPP full startup	96 months

Advantages of construction of Kambarata-1 HPP

Promoting the interests of Kazakhstan and Uzbekistan countries in irrigation; significant increase of the discharge of water during the growing season due to the reduction of releases in the autumn-winter period.

Construction of the Suusamyr-Kokomeren cascade of HPP



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- The Suusamyr-Kokomeren cascade of HPP is located on the river Kokomeren, which is a inflow of the Naryn river. It is territorially located in Zhayil district of Chui region, also in Toktogul district of Jalal-Abad region.
- Project mission: Increase in generating capacity, power generation, ensuring consumption of loadings in the country and export opportunities.

Title of HPP	Installed capacity, MW	Average multiyear generation, mln. kWh	Dam height, m	Construction period, months	Approximate capital investments, mln. US Doll.
Kokomeren HPP -1	360 (4x90)	848	260	154	1607,760
Kokomeren HPP -2	912 (4x228)	2371	40	105	1478,352
Karakol HPP	33 (2x16,5)	104	99	77	257,829
Total	1305	3 323	399		3 343,941

Construction of cascades of HPP

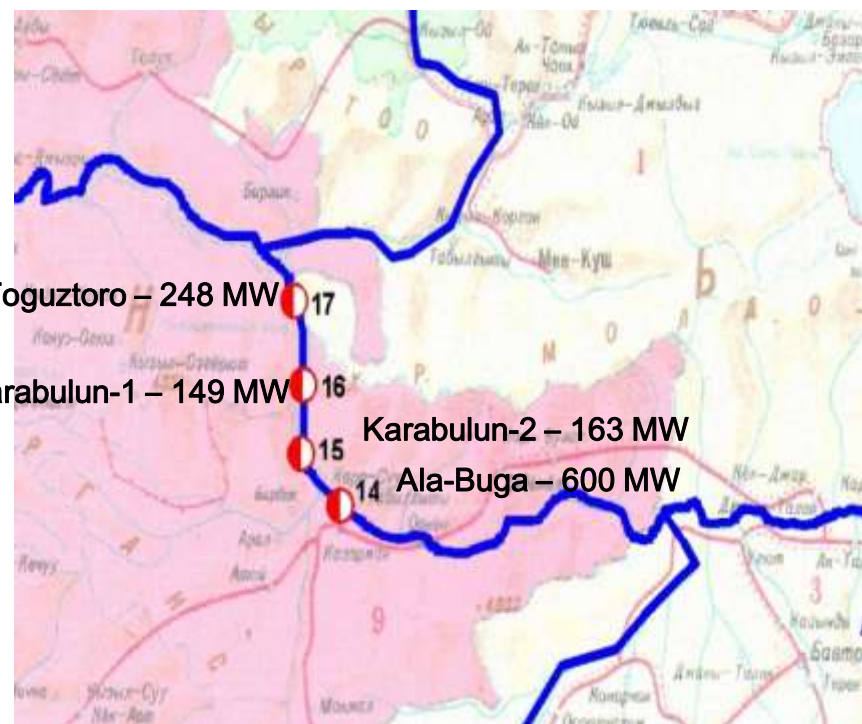


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Kulanak cascade of HPP



Kazarman cascade of HPP



- Implementation in the form of the investment project (direct investments), which involves the participation of investors in the share of the authorized capital of created joint venture.



- Implementation in the form of public private partnership (PPP), including in the form of models like as:
 - BOT (Build, Operate, Transfer);
 - BOOT (Build, Own, Operate, Transfer).

The state support (preferences)



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- Protection of foreign investment in accordance with the legal system of Kyrgyz Republic;
- Tax preferences (installments/postponement of customs duties, tax exemption on the imported equipment);
- Assist in the implementation of the export of electricity within the project “CASA-1000” (according to the rules of open access for third parties);
- Assistance in obtaining licenses, permits and approvals;
- Equal conditions for the activities of foreign and local companies;
- Features extensive cooperation with the state within the law of Kyrgyz Republic “About Public Private Partnership”;
- The freedom to choose the form and investment objects;
- Available work force.





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Thank you for your attention!



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