

Meeting of the CAREC Energy Sector Coordination Committee

National energy sector
condition and development prospects

Power supply and demand in Kazakhstan

as of 01.01.2013

%

Western Zone
Supply – 9.8 billion kWh
Demand – 9.9 billion kWh

Northern Zone
Supply – 71.0 billion kWh
Demand – 62.6 billion kWh

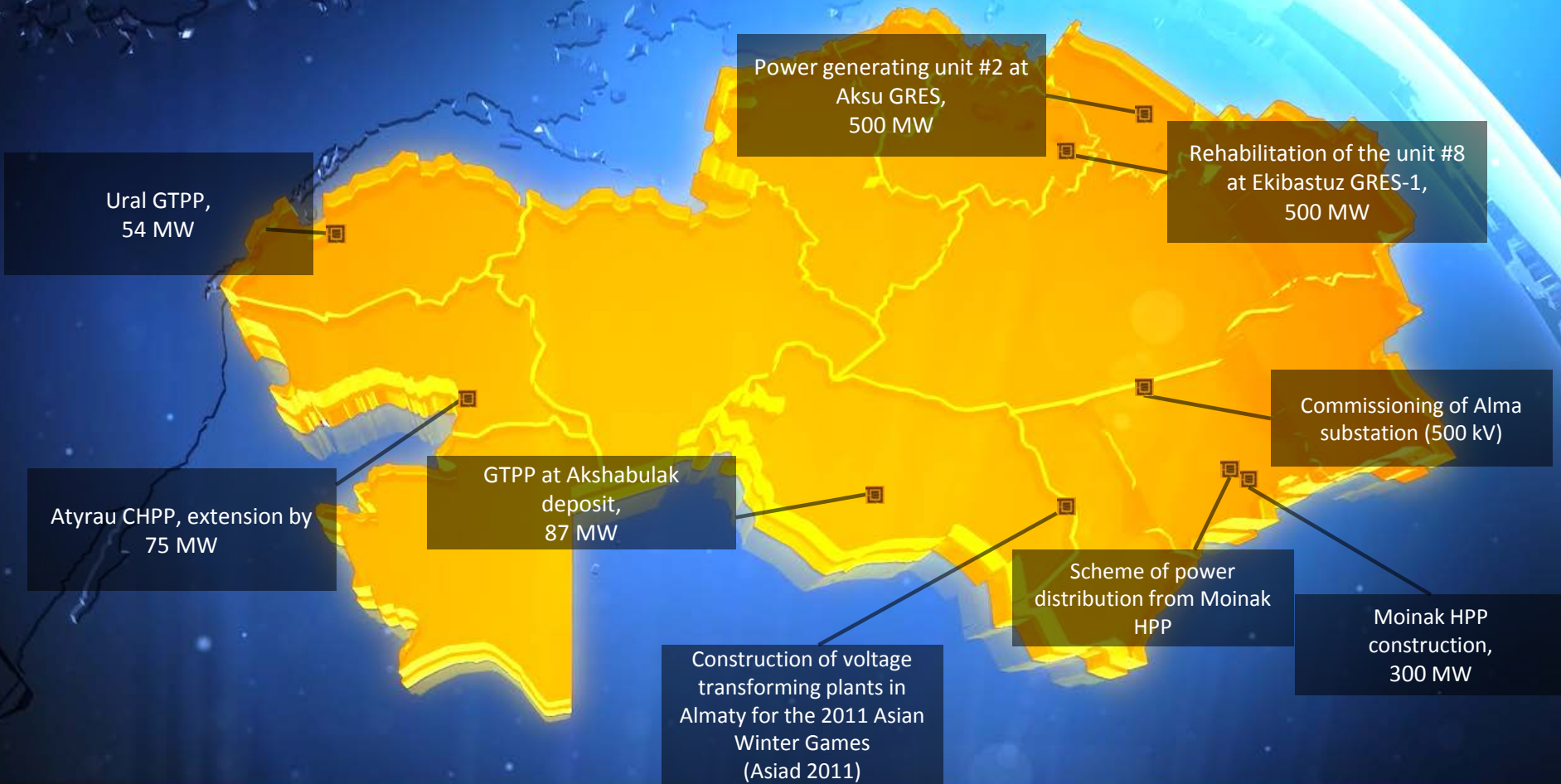
Republic of Kazakhstan
Total:
Supply – 90.2 billion kWh
Demand – 91.4 billion kWh

Southern Zone
Supply – 9.4 billion kWh
Demand – 19.0 billion kWh

Power imported from the Russian Federation and the Kyrgyz Republic – 2.5 billion kWh

Power exported to the Russian Federation and Uzbekistan – 1.3 billion kWh

Implemented power industry projects



Commissioning of capacity within cap rates

Capacity commissioning

2009	92 MW	KarGRES-2 – 55 MW Center of Technology and Expertise – 12 MW Atyrau CHPP – 25 MW
2010	98 MW	Atyrau CHPP – 50 MW Zhanazhol GTPP – 48 MW
2011	390 MW	Aksu EEK – 325 MW PavlodarEnero – 65 MW
2012	670 MW	Ek-GRES-1 unit #8 – 500 MW KaragandaEneroCenter – 120 MW Sogrinsky CHPP – 50 MW
2013	385 MW	Aksu EEK – 325 MW SevKazEnero – 60 MW
2014	1275 MW	Ek-GRES-1 unit #2 – 500 MW Ek-GRES-2 unit #3 – 625 MW KaragandaEneroCenter – 150 MW
2015	100 MW	SevKazEnero – 50 MW Aktobe CHPP – 50 MW

3 010 MW PROPOSED TO BE COMMISSIONED IN 2009-2015

RESOLUTIONS OF THE GOVERNMENT OF THE REPUBLIC OF KAZAKHSTAN

- "On approval of the rules of organization and operation of the wholesale electric power market", #740 dated 06.04.2012;
- "On approval of the Regulation on procedure of coordinating limitations of electrical power generated by thermal power plants and measures to reduce them", #757 dated 06.07.2012;
- "On approval of the Rules of operation of the balancing power market", #1508 dated 11.29.2012;
- "On approval of a standard contract of purchase of service to maintain availability of electrical capacity of newly commissioned generating units", #197 dated 02.28.2013;
- "On approval of a standard contract of construction of newly commissioned generating units", #302 dated 03.29.2013;
- "On approval of the rules of organization and operation of the electric power market" #303 dated 03.29.2013;
- "On approval of the rules for tendering construction of newly commissioned generating units" #466 dated 05.21.2013;
- "On approval of the rules of organization of the maintenance and repair of equipment, buildings and structures of power plants, heat and power networks", #711 dated 07.10.2013.



There are still problems in the industry. These include:

- increasing obsolescence and depreciation of equipment that affects reliability of power supply to consumers;
- lack of necessary generating reserve to ensure growth of power consumption;
- lack of a flexible generating capacity required to maintain promptly the balance of supply and demand for electricity in the power system;
- poor investment prospects of the sector;
- increasing staffing and training issues;
- lack of power engineering plants.

Implementation of projects in the power sector

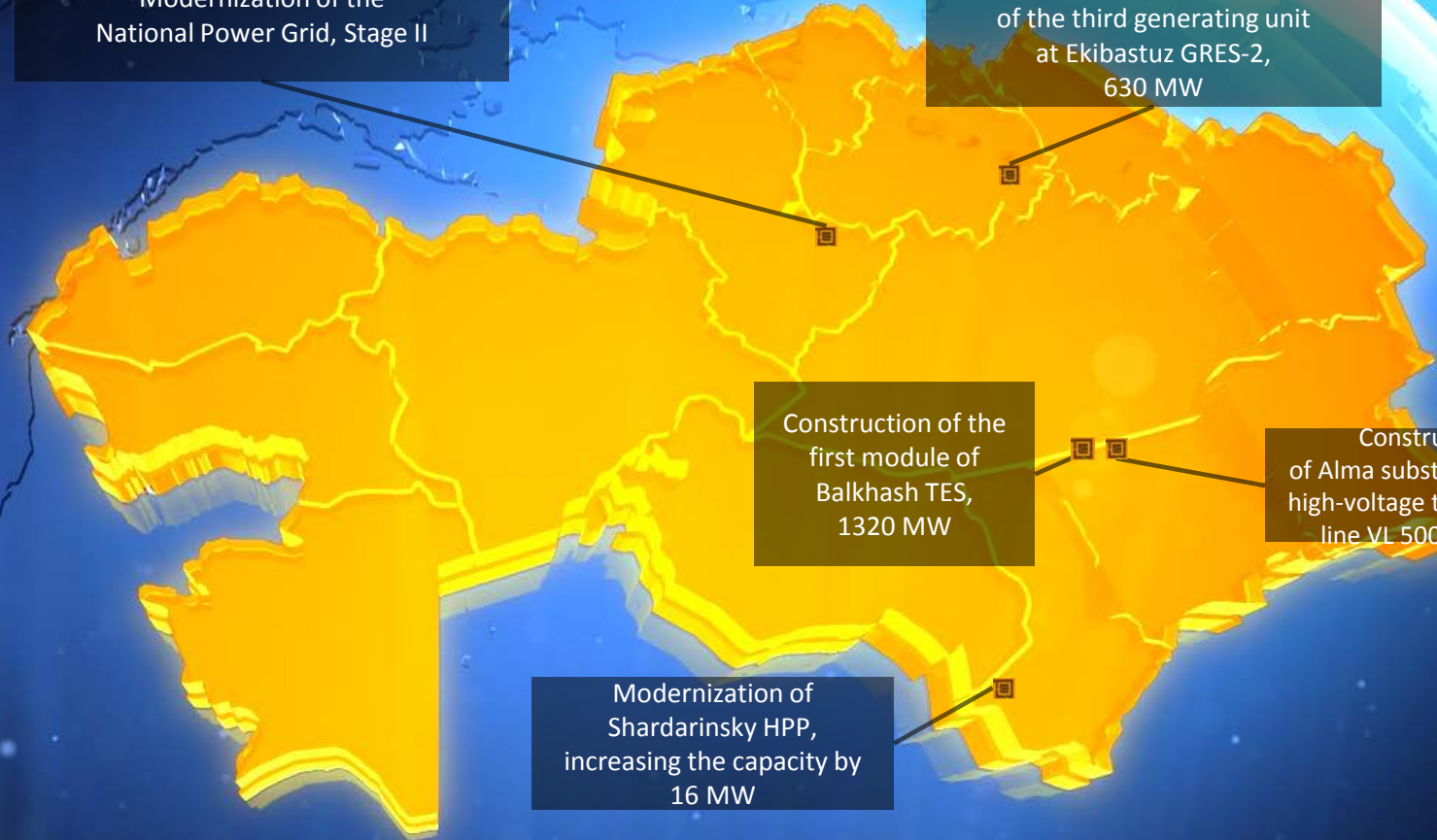
Modernization of the
National Power Grid, Stage II

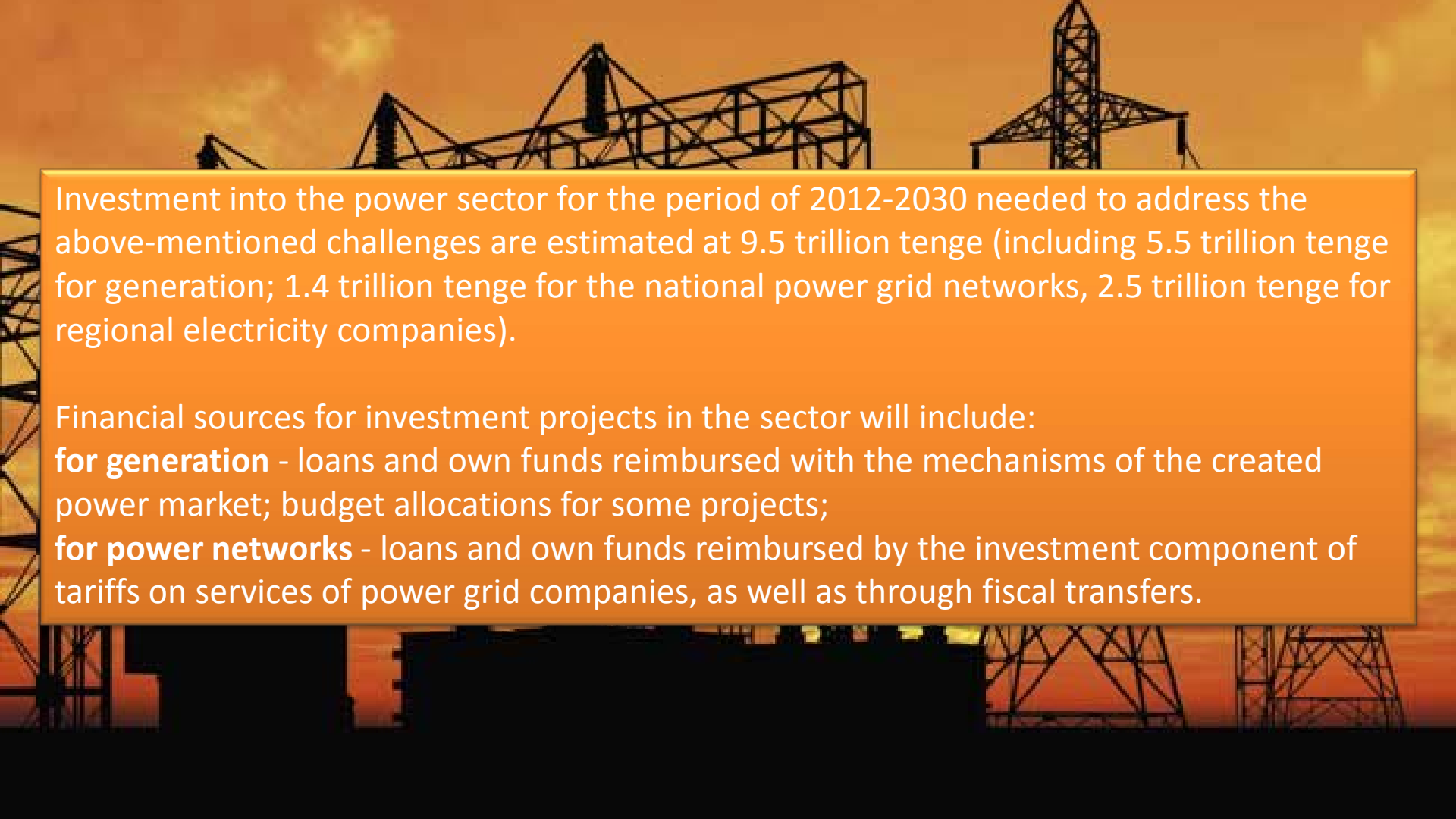
Construction
of the third generating unit
at Ekibastuz GRES-2,
630 MW

Construction of the
first module of
Balkhash TES,
1320 MW

Construction
of Alma substation with a
high-voltage transmission
line VL 500, 220 kW

Modernization of
Shardarinsky HPP,
increasing the capacity by
16 MW





Investment into the power sector for the period of 2012-2030 needed to address the above-mentioned challenges are estimated at 9.5 trillion tenge (including 5.5 trillion tenge for generation; 1.4 trillion tenge for the national power grid networks, 2.5 trillion tenge for regional electricity companies).

Financial sources for investment projects in the sector will include:

for generation - loans and own funds reimbursed with the mechanisms of the created power market; budget allocations for some projects;

for power networks - loans and own funds reimbursed by the investment component of tariffs on services of power grid companies, as well as through fiscal transfers.

A night view of a modern bridge with a white, rib-like structure and illuminated streetlights. The text "Thank you!" is overlaid in the center.

Thank you!