



USAID POWER THE FUTURE (PtF) REGIONAL PROGRAM

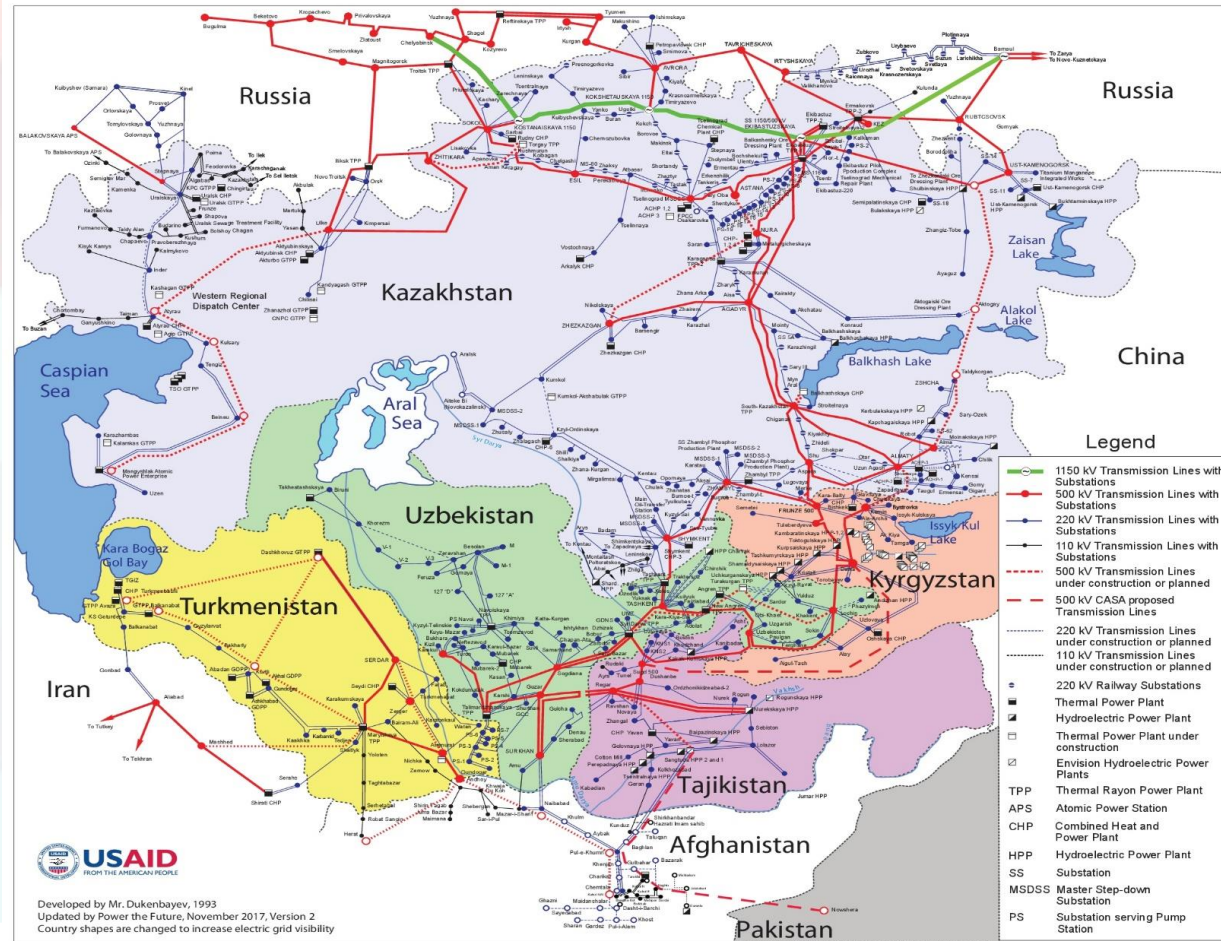
**Central Asia Regional Economic Cooperation
Energy Sector Coordinating Committee
March 13-14, 2018
Ashgabat, Turkmenistan**

USAID POWER THE FUTURE PROGRAM

- Regional focus on 5 Central Asian Countries:
 - Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan
- Project duration:
 - August 2017- August 2021
- Project office in Astana, with coordinators in each country capital



CENTRAL ASIA ELECTRIC GRID



SNAPSHOT: CENTRAL ASIA (2017)

Country	Area, thousand km ²	Population, mln	Installed Capacity, MW	Power Generation, billion kWh
Kazakhstan	2724,9	18	22 056	103,1
Turkmenistan	491,2	5,6	4 001	22,3
Uzbekistan	448,9	32,1	12 930	59
Kyrgyzstan	199,9	6,2	3 786	14,9
Tajikistan	143,1	8,9	5 200	17,2
TOTAL	4 008	71	47 973	217

AREAS OF TECHNICAL ASSISTANCE

- Power Sector Reform and Enabling Environment
- Renewable Energy
 - Planning
 - Grid Integration
 - Competitive Auctions
- Improving Energy Efficiency
- Demonstrations and Pilots
- Transparency (Monitoring & Evaluation)
- Knowledge Management, Coordination and Learning



OBJECTIVE I. SUPPORT FOR CLEAN ENERGY IN KAZAKHSTAN



- Improved Power Sector Planning and Operation for High Renewable Energy Scenarios
 - Power sector planning for High RE and EE scenarios
 - RE forecasting for improving RE grid integration
- Increased Deployment of Grid-Connected Renewable Energy
 - Grid integration
 - RE auction support

SYSTEM IMPACT STUDY FOR INTERCONNECTION OF RE PROJECTS



- **Power systems modeling and analysis**
 - Study behavior of existing power network (steady state and stability)
 - Predict behavior of power network with RE projects (steady state and dynamic)
 - Design and plan changes to the existing power network with the goal of:
 - ✓ Improving reliability of the network for current and future growth conditions
 - ✓ Ensure the system is safe and cost-effective





OBJECTIVE 2. REGIONAL SUPPORT FOR INCREASING CLEAN ENERGY

- **Improve enabling environment for RE**
 - Assess current policies & laws
 - Improved power system planning
 - Grid interconnection and trade potential
- **Country specific action plans**
- **Build capacity throughout the region to increase use of RE**
 - Workshops, regional exchanges
 - Knowledge management portal





KEY PARTNERS

- Ministries
- Regulators
- Electric utilities
- Research institutions
- Business community
- Donors and local financial Community



NEEDS

- *Both regional and national approaches* – given the differing stages of power sector reform and the complex regional history on water and energy use
- *Knowledge sharing and capacity building* – to overcome limited experience in the region with these technologies and frameworks
- *Sustainability* - solutions that are viable today and for the long-term



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