Construction of a 500/220 kV new open switchyard at Talimarjan TPP and 500 kV single circuit transmission line from Talimarjan TPP to the Sogdiana substation

Project development objective:
Improve the reliability of the electricity supply to residential and business consumers in South-Western Uzbekistan.

Project components:

Component 1: Strengthen power transmission network by the construction of:
1. a 500/220 kV new open switchyard at Talimarjan TPP;
2. 218 km long 500 kV single circuit transmission line from Talimarjan TPP to the Sogdiana substation;
3. a connection bay at Sogdiana substation and
4. a 500 kV connection line from the 500/220 kV open switch-yard at Talimarjan thermal power plant to the Karakul-Guzar transmission line.

Innovative approach to Project implementation:
Tender documents developed without attracting foreign consultancy by specialists of JSC "Uzbekenergo" supported by the World Bank.

Component 2: Institutional strengthening by providing technical assistance for:
1. Improving capacity of JSC Uzbekenergo and its branches;
2. Strengthening the capacity of JSC "Uzbekenergo" on project management, monitoring, reporting and evaluation issues, including procurement, financial management and disbursement and audit of the Project and JSC "Uzbekenergo";
3. Assessing wind energy potential in Uzbekistan;

Organization and performance of works to protect the environment
Taking into account horizontal position of wires and using the mitigating factors, such as blockages (lightning rods) and deflectors (reflectors to reduce bird deaths from high-voltage lines).

Areas with a population of over 4 million people

Project cost
$US 188.496 million
IBRD loan
$US 188.496 million
$US 56.758 million
funds of JSC "Uzbekenergo"

Results
1. Tendering before signing the loan agreement made it possible to accelerate the project completion by 14 months ahead of the planned date.
2. Proper formation of tender lots enabled to involve manufacturers directly, which led to the savings of resources totaling to $US 48.2 million.
3. The savings were used to purchase equipment for modernizing substations in the South-West region (auto-transformers, gas-insulated circuit breakers).
4. Power losses during energy transportation were reduced.
5. Cost-effectiveness and reliability of power supply in national economy increased.

Infographics has been prepared with the support of the World Bank