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FACT SHEET

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Tarbela Hydroelectric Power Station Rehabilitation Project

Geographic Focus	National, Project located in Khyber Pakhtunkhwa
Implementing Partner	Water and Power Development Authority (WAPDA)
Funding	\$16.5 Million
Dates	Apr 2010 – Dec 2015*

Through a G2G mechanism, USAID is partnering with the Government of Pakistan to repair and rehabilitate the Tarbela Hydroelectric Power Station, located in Khyber Pakhtunkhwa Province (KPK). Tarbela's power generation capacity is 3,478 MW, powered by 14 generating units installed on three power and irrigation tunnels. Over time, Tarbela's installed capacity was reduced due to degraded equipment.

By upgrading three generator units, the Tarbela Dam Rehabilitation Project will restore 128 MW of generation capacity and add 561 gigawatt hours (GWh) of energy per year. This is enough to supply electricity to 1.2 million individuals.

Objectives

- Mitigate Pakistan's energy shortage by restoring 128 MW to the national grid through rehabilitating the power station.

Main Activities

- Fund the modernization of three generators by replacing old windings.
- Install digital governors, a SCADA system, pumps and supply essential spare parts.
- Provided training to plant engineers.

Achievements

- 128 MW of targeted capacity has been restored by upgrading equipment on three generators.
- SCADA installed to support Tarbela's digital governors reliability.
- Successful installation of pumps, spare seals and guides for relief and by-pass valves on turbines at Units 1-10.
- Tarbela engineers trained on operations, maintenance and monitoring of hydropower plants.
- Rotor poles procurement is underway. They will be kept in spares to use at the time required.

*WAPDA/Tarbela submitted a time extension request to USAID.

For more information, please visit our website at www.usaid.gov/pk



Repair work at Tarbela