USAID | AFGHANISTAN
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FACT SHEET

National Load Control Center

OVERVIEW

The ultimate goal of NEPS is to transmit reliable and affordable energy from northern Afghanistan, Turkmenistan, Uzbekistan, and Tajikistan to Kabul and northeastern Afghanistan. The National Load Control Center (NLCC) supports the North East Power System (NEPS), which is the energy infrastructure that connects electricity grids in northeastern Afghanistan.

Afghanistan needs industrial, commercial, and residential users to power economic growth and to improve the quality of life. The NLCC will enhance the reliability, effectiveness, efficiency, and safety of NEPS operations as it will be equipped with a Supervisory Control and Data Acquisition (SCADA) system and related equipment needed to electronically monitor and control generation and transmission along NEPS. SCADA and its related equipment will be installed in 17 substations and power plants along NEPS, located in northern provinces of Afghanistan and Kabul.

Through SCADA, the NLCC connects transmission lines from neighboring countries, power grids, substations, and power plants into a coherent system. It enables controllers to see and control the status of the entire system in real time. USAID and its Implementing Partner have closely coordinated with the national utility - Da Afghanistan Brishna Sherkat (DABS) and the Ministry of Energy and Water in regard to scheduling system outages, productive completion of the project and resolving technical and nontechnical issues. Upon completion of this project, DABS will be able to monitor data and control all the 17 substations and power stations for the NEPS transmission system and Kabul Power Plant. In addition, it will provide instantaneous data about transmission and generation parameters such as voltage, ampere, frequency, real power and reactive power, as this will efficiently assist operation in scheduling system maintenance and planned outage, as well as managing load shedding

CURRENT ACTIVITIES

- Install the SCADA Master Station and related equipment at the NLCC building, located in the compound of Tarakhil Diesel Power Plant
- Train DABS Engineers on the successful operations of the SCADA system
- Install SCADA equipment in substations and power plants

ACCOMPLISHMENTS

- Completed testing of the existing and stringing the new Optic Ground Wire (OPGW) along NEPS
- Completed a test of all 600 KM OPGW