



Project Information Sheet Northwest Kabul Power Station

Rehabilitation, management and operations and maintenance to ensure long-term reliability

Implementing Partner	AEAI
Project Start Date	May 2004
Anticipated Finish Date	June 2006

Objective

Originally envisioned as a power station for meeting periods of high electricity demand, North West Kabul has become a critical base load source of electricity for the city. The two gas turbine units at the North West Kabul Power Station, known as GT3 and GT4, were commissioned in 1983 and have been adapted for diesel fuel. These units provide up to 40% of the peak electricity requirements to the city of Kabul, with a maximum operating capacity of 42 MW.

A key aspect of USAID/Afghanistan's energy assistance to the country is to provide electricity. Given Afghanistan's heavy reliance upon hydropower generating stations and the general need for rehabilitation, North West Kabul, particularly in the winter, has become increasingly relied upon for supplying electricity to Kabul.

A team of specialists has been assigned to implement and install an operation and maintenance program while also providing technical and funding support for unscheduled problems the plant might encounter.



Removal of GT3 U/H GT/ Compressor Casing

Program Description

The scope of the project includes:

- Develop and implement an operations and maintenance schedule and training program for the personnel at NW Kabul
- Identify, procure and manage consumables and spare parts
- Inventory existing materials in warehouses
- Organize a program for materials acquisition and management
- Monitor and manage diesel fuel procurement, including supply and use, quality and quantity control



NW Kabul Power Station

Project Accomplishments

USAID, along with procuring and managing fuel, has provided approximately \$2.8 million for repairs and spare parts to maintain the operations of this power station. Accomplishments include:

- Performed operations and maintenance training of plant personnel
- Scheduled and managed routine maintenance of gas turbines and auxiliary equipment
- Translated all relevant information on training and maintenance into Dari



- Assisted in the removal and rebuilding of pumps and motors from the mothballed East Kabul Power Station to be used as spare parts for NW Kabul
- Monitored the progress and scheduling of several important inspections, extensive repairs and spare parts acquisitions
- Assisted in inventory and organization of the mechanical & electrical warehouses
- Established a Computerized Material Management System (CMMS) to provide inventory tracking and control and spare parts ordering capacity and trained plant staff in its use
- Provided vital instrument calibration and equipment for calibration
- Provided training for Afghan personnel on calibration procedures



Changing of Lube Oil GT4