

First Prize

**Gujarat Industries Power Company Ltd.,
Dist.Surat (Gujarat)**

Sector: Thermal Power Station
*(Coal fired plant > 100 MW
capacity)*

Unit Profile:

GIPCL was incorporated in 1985 as Public Limited Company under the auspices of Government of Gujarat. It was commissioned 250 MW Lignite based Power Plant at Nani Naroli, District Surat in November, 1999 as Independent Power Producer (IPP) with Power Purchase Agreement (PPA) with GUVNL. Also GIPCL added another 250MW in April 2010 at the same location. All units are having Circulating Fluidised Bed Combustion (CFBC) Technology boilers with lignite firing. These boilers can burn low grade fuels and has an inherent characteristic of producing less emission of SOx and Nox. Requirement of Lignite is met from its own Captive Lignite Mines.



Brief Description of the major Energy Conservation Actions:

1. Nine conventional Cooling Tower fans of Phase-I were replaced with energy efficient fans.
2. Cooling towers fills in total 8 nos of CT Cells of Unit-2 was replaced.
3. Interconnection of CW discharge line between two units has been carried out. This modification has helped to reduced stop operation of CW pump during shutdown & Forced Outages.
4. Variable Frequency drive incorporated in Raw Limestone conveying system has resulted in to improved loading of the system.
5. Energy saving by stopping 2 nos ash cooler blowers by changing the operation philosophy.

Total Investment

₹ 150.25 Lakh

First Year Energy Cost Saving

₹ 1243.69 Lakh

Person who should be contacted for more Information:

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