

DFIC - INDIA References in Energy Sector



Coal India Limited

Brief Details about Client	Service Rendered	Details of Service Rendered
<ul style="list-style-type: none"> • Coal India Limited (CIL) today is the single largest coal producer in the world. • CIL having fulfilled the financial and other prerequisites was granted the Maharatna recognition in April 2011. a privileged status conferred by Government of India 	<p>Research and Development on Efficient Energy Management: Pilot Study and Action Plan.</p>	<ul style="list-style-type: none"> • Identification of Energy (Electricity and Diesel) saving Opportunities in both Underground and Opencast Mines. • To inter- compare international best practice and identify feasible new technologies and functionalities for energy manage in mines with those currently used at CIL coal mines. • To identify the installation feasibility of the solar panel near opencast and underground mines of CIL and find out the optimu angle for the office buildings and guest houses of CIL as a part of green initiative. • To simulate optimal façade design taking into account maximization of daylight. • To develop a computerized monitoring and reporting mechani energy efficiency key performance indicators to facilitate senior managers control operational deviations causing energy loss and also help in planning of energy efficient measures.



IPGMER & SSKM Hospital

Brief Details about Client

The largest Govt. Hospital in Eastern India and a national research institute.

Service Rendered

Energy Efficiency Study in SSKM Hospital

Details of Service Rendered

- Conducted a comprehensive energy audit of the SSKM hospital to identify the key energy saving opportunities.
- Application of scientific approach to find out the best scope with respect to cost of implementation for energy conservation and suggest practical feasible measures to reduce the cost of energy consumption significantly.
- Identified the scope of renewable energy (e.g. solar) and co-generation to meet the growing energy demand (electricity, diesel, LPG) at least partially.



Shyam Steel Limited

Brief Details about Client

- Shyam Steel is a (1500 Crs.) company with a 0.5MTPA Integrated steel plant & a Captive Power Plant in Durgapur, West Bengal.

- Its products include TMT re-bars, CRS (Corrosion Resistant Steel) TMT re-bars, EQR (Earthquake-resistant) TMT re-bars and structurals.

Service Rendered

Reduction of Operational Cost through Energy Audit

Details of Service Rendered

The major areas under the study are:

- Electrical System
- Mechanical System
- Thermal & Steam
- Air
- Fuel/ Oil
- Overall Operation
- Others

Energy Saving Opportunities in Following equipments/ processes issues revealed vigorously:

Motors, Pumps, Transformers, Distribution System, CHP, Boilers, Turbines, Furnaces, Blowers, Air Compressors, Cooling Towers, Waste Heat Recovery, ToD System, Electricity Bill and Demand analysis etc.



Jai Balaji Group

Brief Details about Client

•One of the largest manufacturers of steel in the private sector in Eastern India with eight manufacturing units.

•Value-added products include DRI, Pig Iron, Ferro Alloys, Alloy and Mild Steel Billets, Reinforcement Steel TMT Bars, Wire Rods, Ductile Iron Pipes and Alloy and Mild Steel Heavy Rounds.

•Diversified into power generation and cement industry also.

Service Rendered

Reduction of Operational Cost through Energy Efficiency

Details of Service Rendered

The major areas under the study are:

- Electrical System
- Mechanical System
- Thermal & Steam
- Air
- Fuel/ Oil
- Overall Operation
- Others

Energy Saving Opportunities in Following equipments/ proces: issues revealed vigorously:

Motors, Pumps, Transformers, Distribution System, CHP, Boiler Turbines, Furnaces, Blowers, Air Compressors, Cooling Towers Heat Recovery, ToD System, Electricity Bill and Demand analys



Seven Star Steels - Bathwal Corporation Limited

Brief Details about Client

Part of Bathwal Corporation, a conglomerate with footprints in Iron & Steel, Power, Real Estate and Textile Export.

Service Rendered

Reduction of Operational Cost through Energy Efficiency

Details of Service Rendered

The major areas under the study are:

- Electrical System
- Mechanical System
- Thermal & Steam
- Air
- Fuel/ Oil
- Overall Operation
- Others

Energy Saving Opportunities in following equipments/ processes/ issues revealed vigorously:

Motors, Pumps, Transformers, Distribution System, CHP, Boilers, Turbines, Furnaces, Blowers, Air Compressors, Cooling Towers, Wa. Heat Recovery, ToD System, Electricity Bill and Demand analysis etc



Neo Metaliks

Brief Details about Client

Renowned Steel Manufacturer with installed capacity of 1,75,000 mt per annum along with Captive Power Plant of 4.5MW capacity.

Service Rendered

Reduction of Operational Cost through Energy Efficiency

Details of Service Rendered

Detailed Energy Audit of Office Building includes study of

- Electricity distribution system.
- Air-conditioning system.
- Lighting system
- Fans
- Other electrical equipments



Madhyamgram Municipality

Brief Details about Client

Adjacent to Kolkata, it is a municipality in North 24 Parganas.

Service Rendered

Master Plan for Development of Madhyamgram, Kolkata as Solar city under Solar City Program of Ministry of New & Renewable Energy, Govt. of India.

Details of Service Rendered

- To enable/empower Urban Local Governments to address energy challenges at City - level.
- To provide a framework and support to prepare a Master Plan including assessment of current energy situation, future demand and action plans
- To build capacity in the Urban Local Bodies and create awareness among all sections of civil society.
- To involve various stakeholders in the planning process
- To oversee the implementation of sustainable energy options through public - private partnerships.



Jindal Steel & Power Limited

Brief Details about Client

•JSPL is a part of about US\$18 billion diversified Jindal Group conglomerate.

•JSPL is a leading player in steel, power, mining, oil and gas and infrastructure in India.

Service Rendered

Facilitating ISO-50001:2011 -Energy Management System Certification

Details of Service Rendered

- Set-up Scope & Boundary. (Departments /Processes to be included)
- Frame -up Energy Policy. (top Management Commitment toward: continual improvement of energy efficiency and its related issues with regulatory guidelines etc).
- Document Management Responsibilities assignment
- Draw EnMS Action Plan
- Develop procedures & Guide lines
- EnMS Manual finalization & approved by Top Management.
- After completion of above, the EnMS starts rolling and resultant documents are recorded periodically as well as reviewed by top management periodically as decided.
- Presentation to EnMS Certification Body.