

First Prize

Gujarat Narmada Valley Fertilizers & Chemicals Limited, P.O. Narmadanagar, Bharuch (Gujarat)

Sector: Fertilizers

Unit Profile:

Gujarat Narmada Valley Fertilizers & Chemicals Limited. (GNFC), is a joint sector enterprise promoted by the Government of Gujarat and the Gujarat State Fertilizer Company Ltd.(GSFC). GNFC started its manufacturing and marketing operations in 1982. At GNFC Ltd., Coal remains to be the main fuel for 3 Boilers, each having capacity of 180 MT/hr of HPSH steam. The fourth Boiler is gas based and operated only in case of requirement. Required Power is generated with the help of 2X25 MW Steam Turbines and a 35 MW Gas Turbine based Co-generation unit. LSHS is primarily used as feed stock in Ammonia plant and Natural Gas is used as Fuel for Turbogenerators and as Feed Stock in Methanol SGGU plants. Small quantity of Natural Gas is also used as fuel in some of the plants.



Brief Description of the major Energy Conservation Actions:

1. Cogeneration Power and Steam unit for generation of 33 MW power and 61 MT/Hr of high steam pressure
2. Use of low pressure steam for ejector in place of medium pressure steam
3. Replacement of 2 cooling water pumps at Raw water plant with new energy efficient pumps
4. Unloading of 105 LSHS rakes without low pressure steam heating
5. Replacement of old electrical system with new and energy efficient equipments

Total Investment

₹ 5735.38 Lakh

First Year Energy Saving

₹ 1963.827 Lakh

Person who should be contacted for more Information:

Shri M.N. Tekchandani, Chief Manager, G.N.F.C. Limited, P.O. Narmadanagar, Distt. Bharuch – 392015