

Background

Faridabad is a mixed cluster in Haryana having over 12000 MSMEs majorly manufacturing various kinds of automobile parts, sheet metal components and fabrics. There are majorly 15 industrial segments in the cluster with a high range of products from soaps to tractors.

Unit Profile

M/s ABC is a MSME unit engaged in manufacturing of chemical blowing agents producing about 3900 tpa. Total Energy bill of the unit was Rs.122.8 lakh per annum. About 53% of the unit's energy bill was on account of Thermal-Firewood, 33% accounted for Grid-Electricity and remaining 14% accounted for Diesel-DG.

Process description

The manufacturing process involves the procurement of raw material in the form of chemicals to make DBH, DNPT and OBSC chemicals. DNPT is chemical compound named as Di-Nitroso Penta methylene tetra amine (DNPT). DBH is chemical compound named dopamine beta hydroxylase. OBSC is chemical compound named oxide bonded Silicon Carbide. There

SIDB



are 3 types of reactors- DBH Reactor, DNPT Reactor and OBSC Reactor. Chemical reactions take place in these three reactors leading to formation of three different compounds. After chemical reaction, the salt so obtained undergoes crystallization process in the crystallizers. Then it is subjected to filtration process in a centrifuge. The product is dried in ovens and dispatched to the clients.

Thermal-Firewood and Grid Electricity were used to operate major energy consuming equipments in the unit i.e. ammonia compressor, plant and machinery and other utilities i.e. pumps, motors associated with equipments, and lighting.



Overall Impact - Post implementation







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