

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 casting components & components of ash handling plants producing about 320 tpa. Total Energy bill of the unit was Rs.64.3 lakh per annum which was around 2% of total turnover. About 49.5% of the unit's energy bill was on account of Diesel-DG, 28.82% accounted for Furnace oil and remaining 21.68% accounted for Grid electricity.

Process description

The manufacturing process involves the procurement of raw material from market. However, the scrap selection basically depends upon the final requirement of the customer. Usually, MS/ CI/ Pig Iron grade scrap is procured from the market for melting purpose. The scrap is first weighed and fed into the induction furnace for melting. The liquid metal is poured

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into cast to obtain the desired shape. The cast undergo trimming to give a final shape and dimensions. If required, the final cast is also given heat treatment in Heat Treatment Furnace where the internal stresses of the product are removed by normalizing and iso-annealing as per client and product requirement

Furnace Oil, Diesel and Grid Electricity were used to operate major energy consuming equipments in the unit i.e. induction furnace, heat treatment furnace and other utilities i.e. pumps, motors associated with equipments, and lighting.



Overall Impact - Post implementation

This case study has been prepared under WB GEF Project titled "Financing Energy Efficiency at MSMEs in India". The project aims to identify, design & implement Energy Efficiency (EE) solutions in 500 MSMEs in 5 clusters with potential of EE investment of more than Rs. 100 crore and reduction in GHG emissions equivalent to 1.2 million tonne CO₂. This project is being co-implemented by Small Industries Development Bank of India (SIDBI) and Bureau of Energy Efficiency (BEE).



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