

28% reduction in fuel bill of a machine component MSME unit through Energy Efficiency Measures

Background

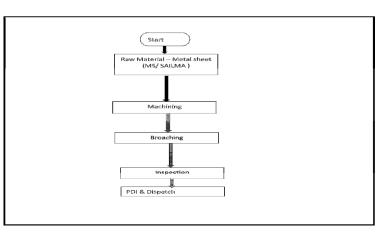
Faridabad is a mixed cluster in Haryana having over 12000 MSMEs majorily manufacturing various kinds of automobile parts, sheet metal components and fabrics. There are majorly 15 industrial segments in the cluster with a high range of products from soaps to tractors.

Unit Profile

M/s ABC is an MSME unit engaged in manufacturing of machine and auto components. Total Energy bill of the unit was Rs.51.0 lakh per annum which was around 17% of total turnover. About 52% of the unit's energy bill was on account of Grid electricity and remaining 48% accounted for Diesel-DG.

Process description

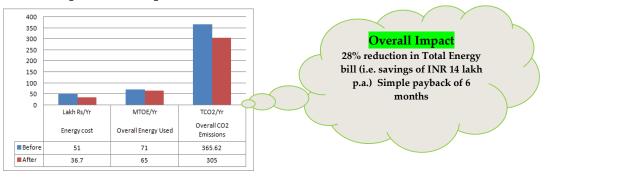
The manufacturing process involves the procurement of raw material as steel followed by their processing in the CNC machines as per the requirement. After the CNC machine, the processed material is sent to vertical maching centers. Subsequently broaching is done and material is dispatched after final inspection.



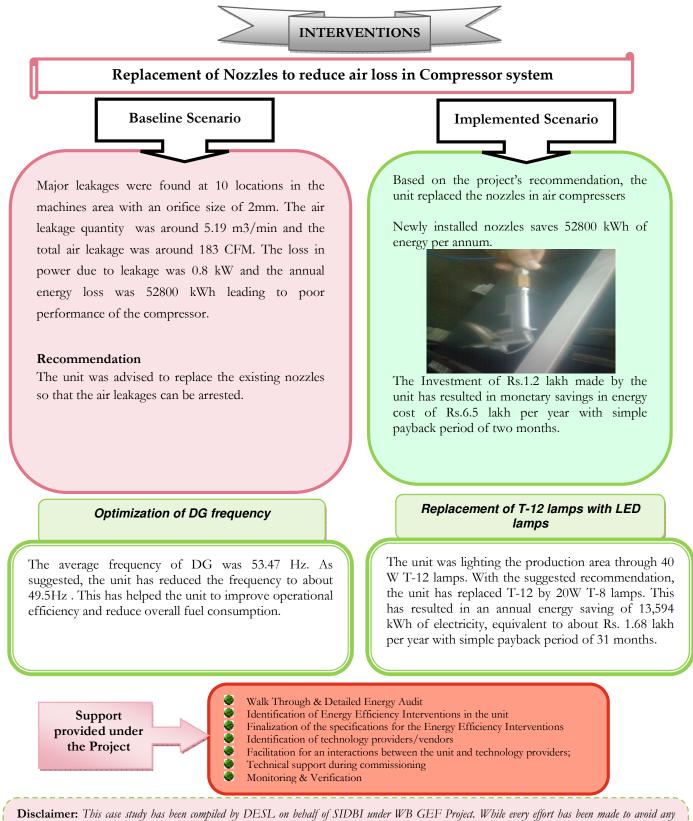
Diesel-DG and Grid Electricity were

used to operate major energy consuming equipments in the unit i.e. CNC, Vertical Maching Center(VMC), broach machines, compressors 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 CO_2 . This project is being co-implemented by Small Industries Development Bank of India (SIDBI) and Bureau of Energy Efficiency (BEE).



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