

"PROMOTING ENERGY EFFICIENCY AND RENEWABLE ENERGY IN SELECTED MSME CLUSTERS IN INDIA"

To develop and promote a market environment for introducing energy efficiency and enhanced use of renewable energy technologies in process applications in the selected energy-intensive MSME clusters, United Nations Industrial Development Organization (UNIDO) in collaboration with Bureau of Energy Efficiency (BEE) is implementing a project titled "Promoting Energy Efficiency and Renewable Energy in selected MSME clusters in India" funded by Global Environment Facility (GEF) and co-financed by Ministry of Micro, Small and Medium Enterprises (MoMSME) and Ministry of New and Renewable Energy (MNRE).

Installation of VFD to the blower in the sand cooling system

Objective

To minimize the energy consumption in the sand cooling process by regulating the speed of the blower as per requirement.

Implementation

Installed a variable frequency drive (VFD) to the blower in the sand cooling process to reduce the energy consumption.

Principle

Sand cooling process has an electrical blower to supply air. The load of the sand cooling process is not constant, it varies depending on the production. But the installed blower works on a constant speed irrespective of the load, consuming higher energy than the actual demand. So, to enable the blower to run at variable speeds and to minimize the energy consumption, VFD is installed to the blower. VFD is a specific type of adjustable-speed drive which controls the speed of motor according to the requirement. This will result in electrical energy saving.







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