

Summary of study: Boiler efficiency improvements in an ice cream and fresh cream production unit: Unit - 1

Industry : Ice cream and fresh cream

Unit profile : A unit located in Pune (Maharashtra) engaged in production of ice cream and fresh cream

Technology :

- High efficient once-through boiler
- Operating practice improvements

Application : Energy savings in steam system

Year of investigation : 2016

Key features:

- Replacing existing boiler with high efficient once-through boiler
- Optimisation of combustion air to fuel ratio

Energy and cost saving:

Details	Existing	Recommended
Steam system	Natural gas fired: 850kg/h x 2units	Once-through boiler
Efficiency level (%)	91.4	94.9
Efficiency improvement (%)		3.5

Note:

This report is an example for investigating the potential of application of Japanese low carbon technology (LCT) in Indian industries. Once-through boiler is the LCT which can generate greater benefits in steam generation system in industries.

