

Summary of study: EE improvements in induction furnace in foundry: Unit - 5

Industry : Foundry (Investment Casting)

Unit profile : A foundry located in Rajkot (Gujarat) engaged in production of precision steel and alloy castings

Identified technologies: Energy efficiency in induction furnace

Application : EE technologies and practices in induction furnace system



Year of investigation :

Key features:

- Improvement in divisional tapping
- Improvement in shrinkage cavities of risers
- Effective use of CAD
- Deoxidation of molten metal in induction melting furnace
- Use of furnace cover

Potential energy and cost savings: Significant

Note:

This report is an example for investigating the potential of application of Japanese low carbon technology (LCT) in Indian industries. Adoption of energy efficient technologies and practices can generate greater benefits in induction furnaces in Indian industries.