

Summary of study: Amorphous transformer in a foundry unit: Unit - 1

Industry : Foundry (Investment Casting)

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

Technology :

- Amorphous transformer
- Operating practice improvements

Application : Energy savings in transformers

Year of investigation : 2012

Key features:

- Adopting amorphous transformers in place of existing transformers (500 kVA and 315 kVA)
- Plugging oil leaks

Energy and cost saving:

Details	Existing	Recommended
Transformer system	500 kVA X 1 unit + 315 kVA X 1 unit (conventional)	500 kVA X 1 unit + 315 kVA X 1 unit (Amorphous)
Energy saving		Significant in long term

Note:

This report is an example for investigating the potential of application of Japanese low carbon technology (LCT) in Indian industries. Amorphous transformer is the LCT which can generate greater benefits in electrical systems in Indian industries.

