

Summary of study: Application of inverter technology in a textile industry: Unit - 3

Industry : Textiles (fabric processing)

Unit profile : A unit located in Narol,
Ahmedabad (Gujarat) engaged
in fabric processing



Technology :

- Use of inverter technology

Application : Energy savings in induced draft (ID) fan of boiler

Year of investigation : 2016

Key features:

- Application of inverter technology in induced draft (ID) fan of boiler to control its speed based on set pressure of steam

Energy and cost saving:

| Details | Existing | Recommended |
|----------------------------|------------|-------------------------------|
| Speed control | No control | Inverter based control system |
| Power consumption (kWh/yr) | 238,226 | 226,343 |
| Energy saving (%) | | 5 |

Note:

This report is an example for investigating the potential of application of Japanese low carbon technology (LCT) in Indian industries. Inverter based control system is the LCT which can generate greater benefits in electrical drives in Indian industries.