

Summary of study: Application of inverter technology in a textile industry: Unit - 1

Industry : Textiles (fabric processing)

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

Technology :

- Use of inverter technology

Application : Energy savings in motors of jigger dyeing machines



Year of investigation : 2016

Key features:

- Application of inverter technology in motors of jigger dyeing machines to control speed based on the dyeing process, fabric grade and other properties of the product

Energy and cost saving:

Details	Existing	Recommended
Speed control	No control	Inverter based control system
Power consumption (kWh/yr)	24,123	14,036
Energy saving (%)		40

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.