

Summary of study: Air compressor in a textile unit: Unit - 3

Industry : Textiles

Unit profile : A textile unit located in Nagpur (Maharashtra) engaged in manufacture of cotton fabrics and denim fabrics

Technology :

- Effective utilisation of inverter compressors
- Operating practices improvements



Application : Energy savings in compressed air system

Year of investigation : 2014

Key features:

- Effective utilisation with the combination of centrifugal and inverter compressors
- High efficiency drain trap
- Reduction of leakages
- Use of overhead piping
- Improvement of blow gun
- Adopting energy monitoring system

Energy and cost saving:

Details	Existing	Recommended
Compressed air system	Inverter type compressor + reciprocating compressor	Same as existing
Energy saving (%)		Marginal energy savings

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 compressed air applications in industries.