

## Summary of study: Air compressor in a textile unit: Unit - 2

**Industry** : Textiles

**Unit profile** : A textile unit located in Nagpur (Maharashtra) engaged in spinning and weaving of yarn for production of shirting fabrics and printed fabrics

**Technology** :

- Effective utilisation of existing compressors
- Installation of booster compressor
- Operating practices improvements

**Application** : Energy savings in compressed air system

**Year of investigation** : 2014

**Key features:**

- Effective utilisation with the combination of reciprocating compressor and inverter type screw compressor
- Booster compressor to cater to high pressure areas
- Reduction of discharge pressure
- Reduction of leakages
- Enhanced ventilation of compressor rooms

**Energy and cost saving:**

Details	Existing	Recommended
Compressed air system	Reciprocating compressor (2 units) + Oil free screw compressor (1 unit)	Additional booster compressor
Energy saving (%)		10

**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.

