

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

Industry : Forging

Unit profile : A forging industry located in Pune (Maharashtra) engaged in the production of different types of welding neck flanges

Technology :

- Inverter type screw compressor
- Operating practices improvements



Application : Energy savings in compressed air system

Year of investigation : 2013

Key features:

- Use of combination of inverter type screw compressor and standard compressors
- Reduction of discharge pressure
- Reduction of leakages
- Reducing pressure losses in piping
- Energy management system

Energy and cost saving:

Details	Existing	Recommended
Compressed air system	150 kW screw compressor 50 HP compressor	100 kW inverter screw compressor X 1 no. + 100 kW standard compressor X 2 no. 75 kW inverter screw compressor X 1 no.
Power savings (%)		Significant energy saving

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.