

## Summary of study: Air compressor in a plastic products industry: Unit - 1

**Industry** : Plastic products

**Unit profile** : A plastic industry located in Ahmedabad (Gujarat) engaged in manufacturing of water tanks and other plastic products.

**Technology** :

- Operating practice improvements

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

**Year of investigation** : 2015



**Key features:**

- Use energy efficient blow guns
- Improvement of air cylinders
- Reduction of air leakage
- Use energy saving coupler
- Use steel/ aluminium/ copper pipes in place of nylon tubes and rubber hoses

**Energy and cost saving:**

Details	Existing	Recommended
Compressed air system	900 kW X 1 + 500 kW X 2 + 250 kW X 2	900 kW X 1 + 500 kW X 2 + 250 kW X 2
Power savings (%)		Significant energy savings with capacity control

**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.