

**38% Saving**



**EnerJon**

**Energy Efficiency**

## Compressed Air Improvement

A multi-national manufacturing site wanted to reduce energy consumption, one of the projects identified and implemented by EnerJon was the compressed air system efficiency improvement, the project involved:-

- Initial compressor power datalog survey
- Full up front costs / saving analysis and summary report.
- Air leak survey & repairs, Installation and commissioning of new high efficiency VSD compressor with integrated heat recovery system and pressure reduction to site requirement.
- Data analysis confirming the saving achieved.

**Air leak survey**



**High efficiency 160KW VSD with integrated heat recovery**

**Each 1 Bar reduction in air pressure = 6% compressor power energy saving**

### The Results

This was a major project for the site and resulted in the following improvements:-

- The annual compressed air system power consumption was reduced by 38%.
- 13 significant air leaks repaired saving in excess of £10k per year.
- Achieved annual power savings to the site of 719,142KWH, reduced annual carbon emissions by over 309 tonnes.
- Payback period for all project costs was under 2 years.
- Other benefits include stable air pressure, reducing electrical spikes and mechanical stresses on motor, extended equipment life due to reduced rotations. Reduced noise due to air leaks in the production area

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