The right choice for Finance Managers

Return on investment

Year on year (sustainable) energy savings realised through management and control of the compressed air system

Benchmarking and continual improvement to optimise the kW/m^3 consumption

The right choice for Engineers & Factory Managers

Optimisation of volume & pressure within the system

Transparent method to determine and correct process misuse and wastage

Reduced maintenance costs realised through better use of compressors and reduced process misuse and wastage of air

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ISOQAR QUALITY ASSURED FIRM ISO 9001 UKAS QUALITY MANAGEMENT 006
Certificate number 1524

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SAFECONTRACTOR 2015 APPROVED

Sustainable energy savings for compressed air

Energy efficient solutions from BOGE

www.boge.co.uk

BOGE

Why save energy?

Reduce energy costs, stay competitive and increase profits?

Energy efficiency in compressed air remains a key issue on every Finance Manager's and Plant Manager's agenda.

Since the Kyoto Agreement, made in 1997 where participating nations agreed to reduce their respective gas emissions, the Climate Change Levy has been introduced, which imposes a tax on the use of energy in industry.

In other words a price increase! Of course the increase only applies to those who do not take energy conserving measures...

Sustainable energy saving solutions

Audit

Assess your existing system

Undergoing an **audit** is the first step to improving the energy efficiency of your compressed air system. BOGE will audit all areas including generation, treatment, distribution and process usage. This will identify any areas of process misuse or wastage, which may be creating excessive energy costs. In most cases initial corrective action can be taken using no and low costs methods.

However, beyond the initial audit and corrective action, anyone, or a combination, of the following BOGE Energy products could be implemented to ensure that energy savings are sustainable.

SF-2 Compressor

Eliminate off load running and even out demand fluctuations, save energy!

Introducing a frequency controlled compressor is one tool to assist in achieving reductions in compressed air related energy costs.

The **Boge SF range of frequency controlled screw compressors** work strictly in accordance with the compressed air demand by producing the exact volume of compressed air at the pressure required. Correctly specified frequency controlled compressors should eliminate idling time and even out air demand fluctuations. Energy costs can therefore be reduced considerably.

SF series screw compressors can be integrated into any existing compressed air installation. When used in conjunction with fix speed machines they can reduce energy costs significantly especially where there is a highly fluctuating demand pattern.

airtelligence

Create sustainable energy savings from your existing compressed air system

Compressor system dynamics change continuously as process use of air changes. If the compressor system does not react to such change then inefficiencies rapidly increase the cost of generation. Furthermore process misuse and wastage statistically account for some 30% of compressed air generation costs. This combination inevitably leads to higher than necessary energy bills.

However, with the non-intrusive **air**telligence micro processor in place, working in harmony with the actual compressor controllers, you are ensured that only the most energy efficient supply of compressed air is used. **air**telligence will simultaneously control, manage and optimise up to 16 compressors of any make or combination of makes of compressors.

By monitoring all of the compressors within a compressed air system, **air**telligence, systematically and predictively takes control of a system, minimising costly off load running whilst optimising pressure.

Seeing is believing

Continual management and monitoring is assured with the complimentary **air**telligence software that reports on flow volume and operating status of all compressors in the system to maintenance intervals, error alerts and most importantly energy consumption and costs for the entire system as well as for each individual compressor.

The data generated not only monitors your system but also provides graphical evidence to justify any changes in technology necessary that would further improve energy and system efficiency. Knowledge is power and in this case, knowledge will save you power!

Syprem 8000 S

Create up to 5% energy savings with the revolutionary BOGE lubricant

This revolutionary product greatly reduces the residual oil in the compressed air. It also provides significant energy savings – a unique benefit in the synthetic oil market.

Syprem 8000 S has been proven to reduce the residual oil content in compressed air to less than 0.7 gm/m^3. This is achieved through lower volatility and stable viscosity, which positively affect the temperature behaviour thus reducing oil carryover in aerosol form by up to 90%. Such characteristics mean the new Syprem 8000 S can yield up to 5% energy savings. Using the example of a 45kW motor running constantly this can translate into savings of £750 per year.