

CASE STUDY

Anglian Water pledges to reduce CO2 emissions

The Challenge

Airchannel is helping to reduce compressed air leakage for Anglian Water, thus assisting the company in its target to cut carbon dioxide emissions by 12.5 per cent and to raise the level of renewable energy used to 10 per cent by 2010.

Airchannel's solution

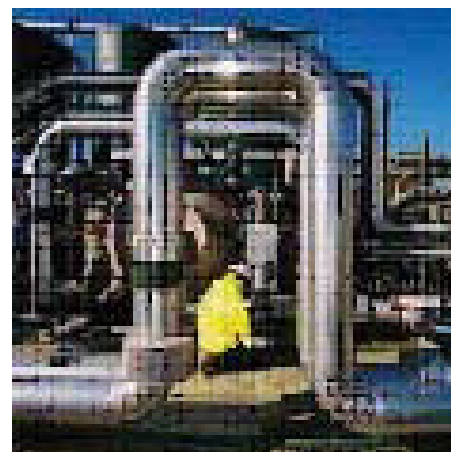
To help understand its compressed air energy consumption, Anglian Water appointed Airchannel as its nominated compressed air partner. The partnership has already paid dividends, with dramatic savings being made in leakage detection and repair to the pipework network.

Serving 2.6 million properties, Anglian

Water is geographically the largest water company in England and Wales covering 27,500 square kilometres. It supplies over one billion litres of water every day through its network of 36,000 kilometres of water mains and treats wastewater at 1075 sewage treatment works.

Under the first phase of the work, which has recently finished, Airchannel was tasked with a leakage detection and repair programme to ensure a reliable sealed system, across the entire network of pipes.

Airchannel is also working on a second phase, a compressor audit, logging all the compressors currently running at Anglian Water's sites across East Anglia.



Results

To effectively monitor the leakage Airchannel worked in association with Leakseek, who provided the pressure testing to help define the leakage.

The results were then converted into kWh and into monetary terms. By doing this Airchannel was able to demonstrate a verified before/after scenario, showing that by opting to invest in a leakage detection and remedial programme Anglian Water has significantly reduced energy consumption.

Additionally, it has been able to verify what size compressor it will need in future processes. Airchannel is currently monitoring the compressors. The usage data is linked to asset databases, to work out how much energy individual appliances are consuming. This information is then linked to data on the age of the equipment, maintenance costs and potential upgrade costs, Airchannel can then start to build a dynamic picture of its network. The next stage is to run benchmarking exercises comparing energy use and costs for different sites or processes and define principles for optimum energy and cost savings.

Conclusion

"Value for money is the optimum combination of quality and whole life costs to meet our customers requirements" says Steve Holman of Airchannel. "Whole life costing has allowed us to advise if it is cost effective to invest in a more expensive product initially to reduce costs in the long run, saving both energy and emissions and helping clients meet their long term energy targets."

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