

Excalibur reduce airport energy consumption by 4,000,000 KWh

A major project to reduce the electrical consumption of air conditioning chillers at Manchester Airport has been successfully completed by Excalibur.

Excalibur's involvement with Manchester Airport started with a pilot installation to chillers at the airport's Olympia House, which was monitored to determine the potential of their technology to reduce power consumption.

With the results making a clear case for a larger scale project, Excalibur were given the green light to undertake the installation of Liquid Pressure Amplification and inverter control of condenser fans, as well as carrying out deep cleaning of condensers on 13 chillers located around the airport.

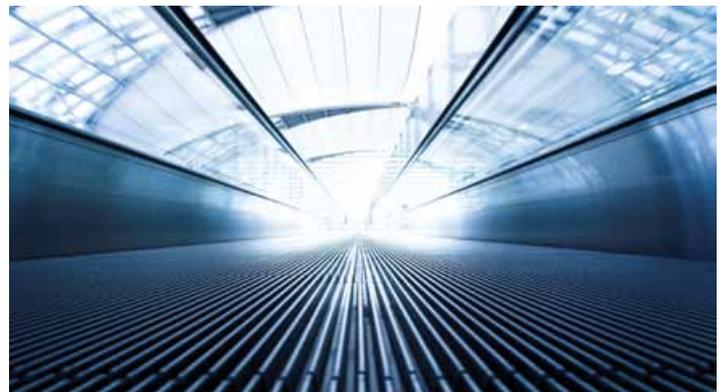
With several of the chillers operating on the ozone-depleting HCFC refrigerant R22, the airport also contracted Excalibur to complete a refrigerant change. All R22 was removed and replaced with ozone-friendly R422.

Excalibur have a long history of undertaking this kind of project, having completed similar work at Heathrow, Stansted, Birmingham, Edinburgh and Glasgow airports. Excalibur staff are well used to the security implications of working 'airside' but the recently introduced iris scanning system at Manchester made gaining access to the site more like Mission Impossible than Terminal 3!

The project was completed with minimum downtime, avoiding the costly replacement of equipment and enabling the airport to remove ozone-depleting refrigerants from site. Post project monitoring showed energy consumption to have been reduced by 4,000,000 KWh / year.

"Excalibur have installed Liquid Pressure Amplification and Intervers to 2 off 1300 kW data centre process chillers. The cooling system is critical to this business and Excalibur's professional approach provided the customer with the confidence to undertake the project. Their condition monitoring also raised several maintenance issues, which we were able to resolve during the contract. Initial monitoring is demonstrating a 46% reduction in electrical consumption."

UK NRG Ltd



EXCALIBUR testimonials

EXCALIBUR
Energy Efficient Management



Throughout the LPA project at Manchester Airport Excalibur provided a thorough and professional service ensuring the project was delivered on time with minimal operational disruption. The project delivered savings as quoted, the refrigerant change helped re-life ageing equipment and was seen as a great success.

Manchester Airport



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I would like to take this opportunity to thank you and all others from within Excalibur involved with the development of this project, from my initial involvement through to today's handover meeting, all of which has run extremely well, with any issues uncovered being easily resolved by the proactive nature of you and your site team, which are a credit to Excalibur. Hopefully, in the not too distant future I will have the opportunity to call upon Excalibur's assistance and experience again on another LPA Project, though in between times I would thank you again for your support and guidance.

Norland Managed Services



Taking a leap forward



If you would like to understand more about how Excalibur can help you to reduce energy costs we offer a free no obligation survey.

Our report will identify the potential energy reduction and project cost. We are able to monitor the system prior to, and following the modifications to verify the improvements in efficiency.

We are an approved supplier for the Carbon Trust / Siemens finance scheme and can arrange a loan or lease to fund the project with repayments made from energy savings.

Contact Us!

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