

# SavaControls Exceed Power Saving Predictions

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Mr Jeff Butt, Roslin Institute

Roslin Institute Case Study

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Reduction in electrical consumption achieved at Roslin Institute, Edinburgh after the installation of SavaControls to refrigeration and air conditioning equipment.

SavaWatt (UK) Ltd manufacture a range of SavaControl units designed to reduce the electricity used by AC induction motors found in compressors in refrigeration plants. SavaControls are energy modulation devices which optimise the AC power consumed by AC induction motors to any given load on the motor. By using special timing and feedback mechanisms protected by patents in the UK and overseas SavaControls are unique in the market place. SavaControls have been manufactured by SavaWatt in the UK since 1985. Typically the reduction in annual refrigeration running costs using SavaControls is expected to average 15%-20%.

Following the successful trial of this unique energy saving technology at the Blood Transfusion Centre Edinburgh Mr George Mair, Director for Swan Refrigeration Technology, Loanhead, who manufacture and supply bespoke refrigeration equipment for scientific and associated applications, recommendations SavaControls to the Contracts Maintenance Manager for Roslin Institute.

SavaWatt carried out a site survey in October 2004 to provide a quote which was subsequently accepted. Installation of the SavaControls to all air conditioning and refrigeration equipment was completed in February 2005. The installation comprised of 79 single phase and 60 three phase units which were fitted to various refrigeration and air handling equipment. The installation took two SavaWatt engineers thirteen working days to complete with minimal disruption to day to day operations.

From a fiscal and environmental viewpoint, energy efficiency at the Roslin Institute is essential. With a high percentage of the electrical consumption on this site being used for refrigeration & air conditioning, savings made will have a significant impact on base costs.

## Mr Jeff Butt own words:

*"Suffice to say I was most impressed with your companies engineers who displayed thorough dedication, knowledge and a willingness to cause as little disruption as possible whilst installing the 'Energy Saving Devices' mainly on Air Conditioning Units, Freezers, Refrigerators and Pump Motors. Throughout the fitting period your engineers were polite and courteous to all Institute personnel.*

*Most satisfying of all, your product has, during the first six months of installation, achieved and in some cases, exceeded power saving predictions. Overall the Institute has made a saving of at least 28% in its electricity consumption. Taking into account the volatile 'Energy Market' and the price increases that are predicted in the near future, I believe the investment made in fitting the SavaWatt devices has been a very sound one. I would therefore have no hesitation in recommending other companies to do likewise."*

