



Office of Research Services & Innovation

Aircosaver

INDUSTRY PARTNER: INNOVATIVE ENERGY SOLUTIONS

Start date: July 12, 2010
End date: October 4, 2010
Project team: Greg Moran, principal investigator
Giovanni Massimi, co-investigator
Roland Kielbasiewicz, industry representative

Innovative Solutions Inc. approached the Office of Research Services & Innovation at Durham College for assistance in proof of principle product testing for the Aircosaver, a thermostat regulation device that is used as a retrofit for existing air conditioning units, as well as help in determining the applicability of this product in the Canadian marketplace. The project was driven by the potential for the product to achieve energy efficiency in residential and commercial facilities.

The project team conducted applied research during the summer of 2010 through a controlled environment, using a control arm and experimental arm in the K-Wing of the Simcoe building at Durham College's Oshawa campus.

Baseline data was collected in the first two weeks of the study. The retrofit technology was then added to two of the four rooftop units. The project team gathered the data with the assistance of an Intellimeter metering system which tracked the kilowatt consumption of the individual units, while data loggers were used to monitor temperature and humidity.

Results: The Aircosaver increased the efficiency of the rooftop's 7.5 tonne units by 33 per cent.

This Aircosaver research project received funding from the Colleges Ontario Network for Industry Innovation.