

Cold Stop Curtains Thermal Report

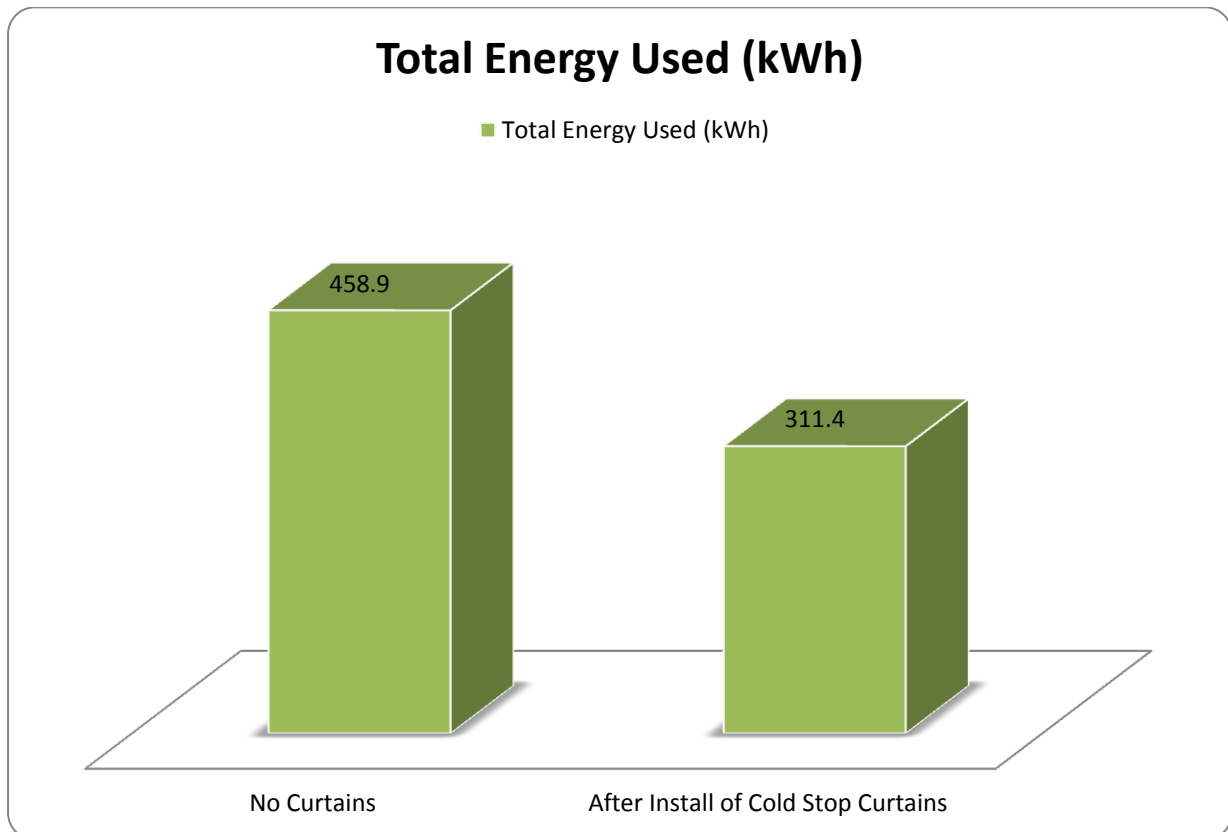
In liaison with a major supermarket validation testing was carried out over two weeks during the summer. The first week recorded the energy usage prior to the installation of Cold Stop Curtains and the second week recorded the energy usage after installation. The purpose of testing was to validate the estimated savings of up to 33% in freezers and 25% in chillers. The specification of the curtains which were installed into a freezer for the purpose of this trial is as follows:

Outer Material: Blue PE650
Thermal Insulation: Tempro TF25 – Thermal Resistance = 0.66m²KW
Thermal Transmittance = 1.52W/m²K
Vision Panel: Standard Grade 2mm thick PVC enriched with SteriTouch

Results

During the two weeks thousands of results were recorded (which are available upon request) below is a summary of the results.

Date	Description	Energy from Power Meter (kWh)		
		Start	End	Total Used
18/07 – 25/07	No Curtains	3,035.80	3,494.70	458.90
29/07 – 05/08	After Install of Cold Stop Curtains	3,710.60	4,022.00	311.40



The difference in energy consumption is 147.5kWh which is approximately 32% reduction in energy used during the first week prior to installation.