

Case Study



Franklins Supermarket.

Site Description:

The Franklins Fresh Supermarket at Macquarie Shopping Centre has been recently re-furbished.

The "Fresh" supermarkets are the middle size in the Franklins range of approximately 300 stores between "Big Fresh" and "No Frills".

The advantages of intelligent Light Eco system was recognised by Franklins management and incorporated as part of the refurbishment programme. Whilst the direct power saving of 29.7% on the lighting was very attractive, it was the added benefits of temperature reduction of the lights and fittings and the extension of the re-tubing period by 4 months each year that sold the project.

Project Description:

The Macquarie Franklins Fresh has over 1000, 58 watt, triphosphor fluorescent lights in twin fittings. The supermarket refurbishment included power factor correction and the incorporation of a building management system.

The lighting throughout the supermarket is excellent as can be seen in the photographs above. The lighting is on for up to 18 hours each day. This is ideal for Light Eco products. 29 Light Eco units were installed and measurements made at installation showed an average saving of 29.7% in a range of 26% to 34%. This calculated to an annual saving of 96 MWhrs, and over \$8,000 directly with anticipated further savings of \$5,500.

The saving to the environment is 86 tonnes of CO² equal to about 86 mature trees.

Summary of Results:

Annual savings	\$8,080.00
Cost of investment	\$11,550.00
Internal Rate of Return	70% (simple pay-back = 17 months)
Energy savings per year	95 MWhr
Greenhouse gas savings per year	86 tonnes CO ² equivalent

Project Bonus: Ilum-a-Lite presents to all clients one tree seedling for every tonne of CO² saved, thus doubling the environmental effect.