



ENERGY SAVING PROJECT – T5 LIGHTING

*A CASE STUDY OF
PRINTAFOIL, WESTERN CAPE*

November 2012



Lighting
Revolution

Printafoil – Eskom Energy Saving Solution

Choosing the Options.

Printafoil, based in the Western Cape is a family run printing business specializing in printing and packaging of carton products. They print premium brands among their many customers and consider environmental impact and green initiatives as an added selling tool.

The decisions of which technology to utilize for their factor lay mainly with the layout of their big machinery as well as the restrictions that the building had to offer – such as roof height and mezzanines.

In the end, Lighting Revolution suggested replacing all their existing T8 fluorescent tube systems positioned over their machines with the Econolight™ T5 fluorescent system. Using reflector technology, we were able to standardize all the luminaires in the facility to 4ft in size. This increased power savings dramatically without the associated lux loss from downlamping – mainly due to the reflector and the higher Lumens/Watt offered by our T5 systems.



Using the Eskom Standard Product rebate model, the cost of product and installation was significantly reduced and ensured a payback of under 4 months.

What was converted?



At the time of audit, it was apparent that the T8 fluorescent fittings were consuming high energy and also adding to unfavourable hot working conditions for operators. In addition, there were very old 400W Mercury Vapour High Bay lamps that were significantly adding to the electricity bill.

Lighting Revolution removed all the old technology including 5ft and 8ft fluorescent systems and standardized the factory with our Econolight™ 4ft Double T5 Fluorescent with Reflector technology.

Installation was completed over 3 days.

The Results.

INITIAL POWER CONSUMPTION:	18.83 KW
NEW POWER CONSUMPTION:	8.05 KW

NET POWER REDUCTION:	57%
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ESKOM REBATE CONTRIBUTION:	60%
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PRODUCT USED: T5 Fluorescent, Induction

OTHER: noticeable heat reduction in working area

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