



# PlasmaGuard Energy Saver™ Air Conditioning Control System Performance Report for 7 Eleven Malaysia

## PILOT TEST OVERVIEW

Site: 7-Eleven Menara Standard Chartered, Kuala Lumpur, Malaysia

The test site is located in the busy golden triangle of Kuala Lumpur and open 24 hours. PLASMAGUARD ENERGY SAVER™ worked to reduce energy consumption on four of the air cooled split unit cassette type air conditioning units. In agreeance with the 7-Eleven outlet operating manager, the set point was agreed at 23°C.



Fig 1: 7-Eleven Test Site



Fig 2: Daikin Cassette

## ENERGY SAVER™ DELIVERED AN AVERAGE SAVINGS OF

24% ENERGY CONSUMPTION

29% OPERATING EXPENDITURE

savings: 2,544 RM (\$571)

## EXECUTIVE SUMMARY

At the invitation of 7 ELEVEN Malaysia Sdn Bhd, Vert Energy Sdn Bhd, member of the Vert Concept Group of companies, we were able to demonstrate the use and performance of the PLASMAGUARD ENERGY SAVER™ to reduce the energy consumption of the air cooled split system air conditioning units at the outlet in Menara Standard Chartered.

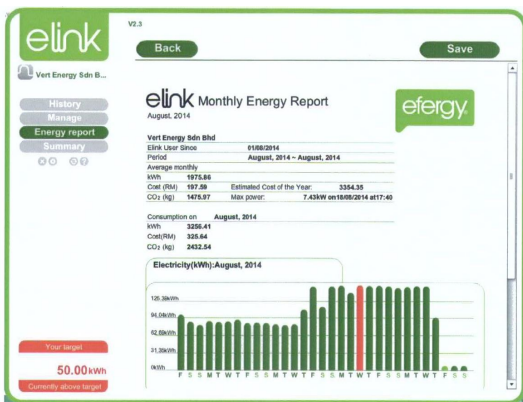
Four (4) ENERGY SAVER™ units (AC-01) were installed on each of the 4 air cooled split unit air conditioning units. The reduction in energy consumption was then monitored and verified through the use of an energy data logger as well as verification on the monthly Tenaga Nasional Berhad utility bill.

The energy data logger was used to log the energy consumption on one of the two selected air conditioning systems equipped with the ENERGY SAVER™ for a period of two (2) weeks and subsequently for another two (2) weeks without the ENERGY SAVER™. Table 1 below provides a summary of the monthly Tenaga Nasional Berhad utility bill.

Bill Period		Total Bill (RM)	Total Energy Used (Kwh)	Store Saving (RM)	Store Saving (%)	Remarks
April	March 3 – April 2	10,343	20,030	0	0	Baseline – Prior to ENERGY SAVER™ installation
May	April 2 – May 3	7,498	14,528	2,845	27%	ENERGY SAVER™ Installed
June	May 3 – June 2	8,241	15,966	2,102	20%	ENERGY SAVER™ Installed
July	June 2 – July 2	7,659	14,841	2,684	26%	ENERGY SAVER™ Installed
August	July 2 – August 2	7,656	14,835	2,687	26%	ENERGY SAVER™ Installed

## RESULTS

Bill Period		Total Bill (RM)	Total Energy Used (Kwh)	Store Saving (RM)	Store Saving (%)	Remarks
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The data logger was installed on the 1<sup>st</sup> of August (Friday) with the ENERGY SAVER™ until August 14<sup>th</sup>. It can be seen below that there was an increase in electrical energy consumed by the air conditioning unit the very next day. The period from 14<sup>th</sup> -28<sup>th</sup> of August, the air conditioning used much more electricity.