

SMARTCOOL™

ESM™ Performance Review

Supermarket: Wyoming, Australia

Business Type	Supermarket
Location	Wyoming is located on the Central Coast of New South Wales approximately 70KM from Sydney.
A/C or Refrigeration	Refrigeration
Brand	Bitzer
Type	3 Reciprocating Compressors and 1 Single Compressor
# of Units	4
Controller	Danfoss AKC55 Controller

Result Highlights

Return on Investment	Annual kWh Reduction	kWh Savings	Greenhouse Gas Reduction
14 months	275,866 kWh	14.3%	169,140 kg

Evaluation Period	<p>The evaluation was carried out over a four week period during August and September 2003.</p> <ul style="list-style-type: none">• ESM™ Off period, August 20 to 26 & September 3 to 9.• ESM™ On period, Aug 27 to Sep 2 & September 10 to 16.
Project Description	<p>The System Energy Saving Modules™ were installed to control the refrigeration racks.</p> <p>The electricity consumption of the refrigeration racks was measured by data loggers.</p> <p>Temperature and %RH loggers were also installed to measure and record the temperature and %RH of the refrigeration cases, air conditioning return air and ambient air.</p>
Results Summary	<p>Results from the evaluation clearly demonstrate that the Energy Saving Module System™ provides the necessary financial and environmental returns for the Wyoming Supermarket, without compromising required temperature conditions of the refrigeration cases and store ambient.</p>

Smartcool Systems Australia.

1/84 Shore Street

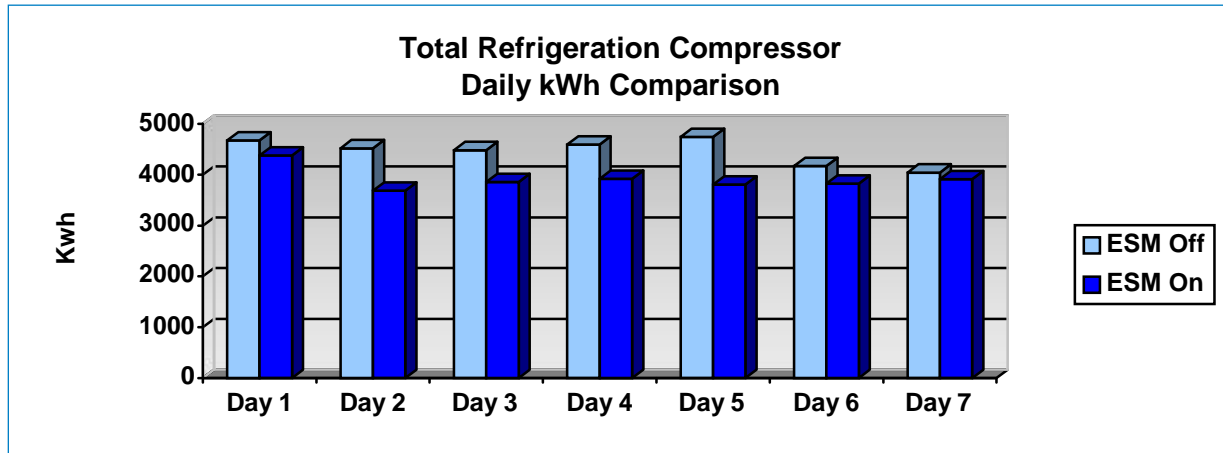
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Electricity Reduction

ESM™ OFF: Avg. Daily kWh	4,460
ESM™ ON: Avg. Daily kWh	3,822
Average Daily kWh Reduction	638
kWh % Reduction	14.3%
Annual kWh Reduction	275,866

Environmental Benefits

Greenhouse Gas Reduction	169,140kg
Tree Equivalent	203 Acres
Enough Electricity to Supply	68 Homes



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