

Case Study – ESM™

Hellmann Perishable Logistics

Business Type	Refrigerated Warehouse
Location	10450 Doral Boulevard Doral, Florida 33178
A/C or Refrigeration	Refrigeration Units
Brand	Kramer
Type	Single Compressor, Roof Mounted Units
# of Units	11



Result Highlights

**Return on
Investment
24 Months**

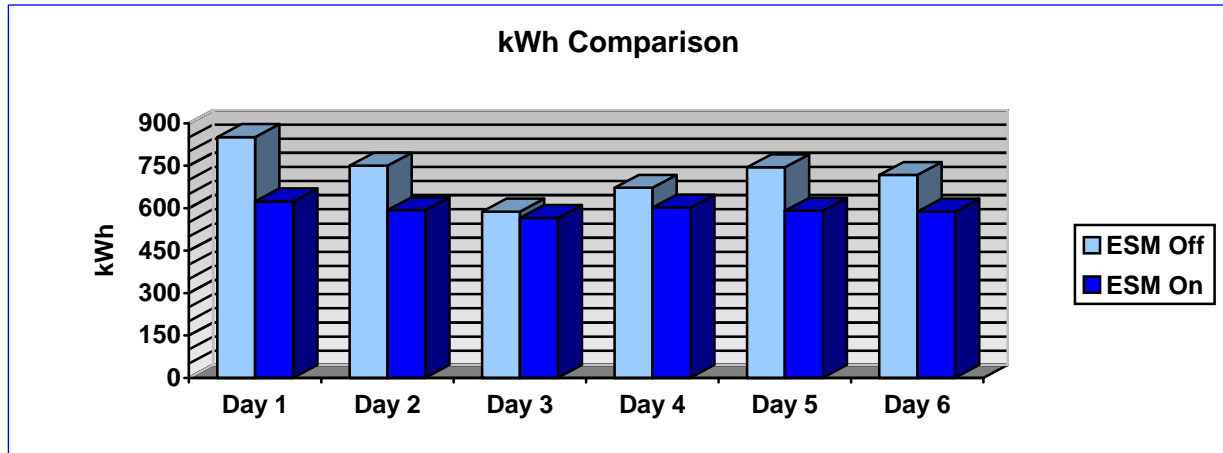
**Annual kWh
Reduction
46,293 kWh**

**kWh
Savings
17.6%**

**Greenhouse
Gas Reduction
62,443 lbs**

Evaluation Period	ESM™ Off: June 9 – 14, 2006 ESM™ On: June 23 – 28, 2006
Project Description	<p>11 units were installed at the Hellmann's facility. The following results are for the single unit that the ESM™ was installed on for test purposes.</p> <p>Energy data loggers were installed on the electrical mains to the refrigeration units to measure and record the kW, kWh, and Amps consumption of each refrigeration system throughout the evaluation period.</p> <p>The data loggers take a measure every 8 seconds and are set to provide a date stamped printout every 6 minutes. During the analyses the data is accumulated and/or averaged over one hour periods to compile the comparative data.</p> <p>Throughout the evaluation, temperature loggers were also used to measure and record the ambient air temperatures.</p>
Results Summary	Results from the evaluation clearly demonstrate that the Energy Saving Module System™ significantly reduces kWh consumption providing both financial and environmental benefits without compromising temperature requirements of the coolers.

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Electricity Reduction	
ESM OFF: Avg. Daily kWh	720.5
ESM ON: Avg. Daily kWh	593.67
Average Daily kWh Reduction	126.83
kWh % Reduction	17.6%
Annual kWh Reduction	46,293
Return on Investment	50%
Pay Back Period	24 months

Environmental Benefits	
Greenhouse Gas Reduction	62,443 pounds
Tree Equivalent	34 acres
Enough Electricity to Supply	4 Homes

