

Case Study – ESM™

Tapia Brothers Co.

Business Type	Cold Storage
Location	6067 District Blvd Maywood, CA USA
A/C or Refrigeration	Refrigeration
Brand	Heatcraft
Type	60T3A-300-TSK
# of Units	6
Controller	Basic Thermostat

Fresno, CA ★ Maywood, CA ★ Las Vegas, NV



Tapia Brothers Co.

Result Highlights

Return on Investment
36 Months

Annual kWh Reduction
168,265 kWh

kWh Savings
16%

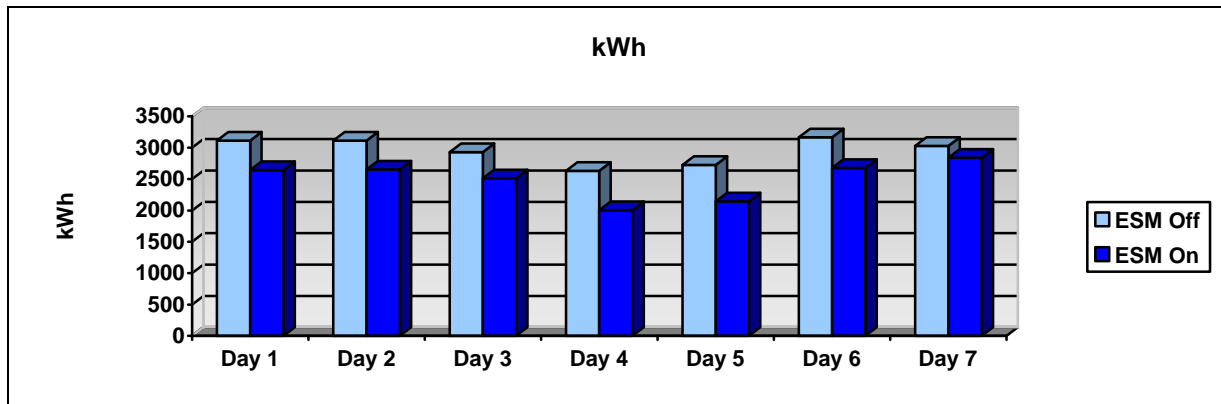
Greenhouse Gas Reduction
226,968 lbs

<p>Evaluation Period</p>	<p>The ESM™ OFF period ran from July 18 to July 25, 2006, a total evaluation period of seven days.</p> <p>The ESM™ ON period ran from July 11 to July 18, 2006, a total evaluation period of seven days.</p>
<p>Project Description</p>	<p>Tapia Brothers Co. is the largest distributor of Mexican food in Los Angeles and therefore has a variety of cooling devices and a range of energy conservation needs.</p> <p>Energy data loggers were installed on the electrical mains to each refrigeration rack to measure and record the Kw, Kwh, and Amps consumption of each refrigeration system throughout the evaluation period.</p> <p>There were 3 main refrigeration units that were part of the evaluation. A freezer with a temperature of 12°, a 35° cooler and a 45° cooler designed for meat and produce.</p>

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Results Summary

The ESM™ achieved an overall kWh saving of 16%. This outstanding amount of conservation was in despite of the tests being conducted during one of the worst heat waves experienced in the area.



Electricity Reduction	
ESM OFF: Avg. Daily kWh	2,958
ESM ON: Avg. Daily kWh	2,497
Average Daily kWh Reduction	461
kWh % Reduction	16%
Annual kWh Reduction	168,265
Return on Investment	36 months

Environmental Benefits	
Greenhouse Gas Reduction	226,968 lbs
Tree Equivalent	124 acres
Enough Electricity to Supply	16 homes