



**Case Study:** Hotel Indigo, Sarasota

# 2011 Energy Savings Report



Founded in 2003, Cysca provides highly qualified resources to assist high tech companies. Cysca has provided consulting services in software control for clients including Vigil GPS, Bill Gates, Bombardier and more.

For the purpose of evaluating the performance of the TempZon EMS (Energy Management System) and, in order to calculate the energy savings, an Energy Saving Report was created. As part of the study, a verification exercise was conducted by Cysca, to measure the accuracy of the TempZon Energy Savings Report.

## Report Details

- Eighteen (18) pairs of rooms, thirty-six (36) rooms, were included in the Energy Savings Report. Eighteen (18) rooms had thermostat EMS features turned on, and the other thirty-six (36) rooms had thermostat EMS features turned off. Pairs of rooms with all geographic orientations, and located on all floors of the hotel were included in the report.
- The rooms in each pair were chosen to be adjacent to each other, be the same size and be on the same floor, so that the external factors governing HVAC load on both rooms would be kept as similar as possible. In addition, all rooms in the report had identical HVAC equipment.
- Data for the report was gathered for ninety days (90) days (Dec 8, 2010 - Mar. 8, 2011), and the energy use in rooms with EMS turned on was compared to the energy use in the rooms with EMS off.
- The energy use in each pair of rooms was compared in an Energy Saving Report displayed on the SmartLightTech remote management website. The energy saving report displayed the energy use of the HVAC units in the rooms that were part of the study, and displayed them graphically (reported HVAC run time / total elapsed report time). The savings for all the pairs were averaged to obtain an overall energy savings figure.

## Report Final Results

During the report period, the HVAC equipment in thirty-six (36) rooms with EMS activated ran an average of 4.84% of the total time while the HVAC equipment in thirty-six (36) rooms with EMS deactivated ran an average of 6.56% of the total time, for overall savings of 27% for all rooms in the report (for the winter period, the lowest consuming time of HVAC).

	Without EMS	With EMS	Savings
December	104.25	79.41	-23.8%
January	116.84	84.52	-27.7%
February	102.52	72.86	-28.9%
<b>Average Winter Savings</b>			<b>-27%</b>



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