



The Sheraton San Diego Hotel and Marina is saving 31 percent in guestroom HVAC usage with a networked guestroom energy-management system from INNCOM

Starwood Properties Striving Towards '30/20 by 20' Initiative with INNCOM

The Sheraton San Diego Hotel & Marina is recognized as one of Starwood's leading properties for energy reduction and sustainability. For nearly 10 years, INNCOM has been a key partner in helping the Sheraton to obtain and maintain its "green" reputation.

In 2003, the Sheraton San Diego contracted with INNCOM to install a networked guestroom energy-management system for the Marina and Bay Towers at the resort. In each guestroom, an INNCOM e528 digital thermostat with integral PIR motion sensor and wireless IR transmitter was installed. Entry door switches and wireless balcony door switches also were installed to ensure guest comfort and satisfaction while optimizing energy savings and moisture control for the guestrooms.

Today, the Marina Tower building is experiencing a 31.4 percent reduction in guestroom energy use due to longevity of its partnership with INNCOM.

"INNCOM has always kept the Sheraton San Diego on the forefront of energy automation," said David Prost, Sheraton San Diego Director of Engineering. "The Marina Tower upgrade in 2008 from a router-based system (that used phone lines and copper cabling) to the current network was important to our ongoing sustainability effort, and it has made a significant contribution to our energy reduction.

"Like the Marina Tower, the Bay Tower also was networked by INNCOM, and relied on a cable modem configuration, but it is no longer supported by the networking manufacturer," he said. "The rooms continue to save energy, although operating as a stand-alone system. Now, due to the modularity of the INNCOM system, we are upgrading to DMN. This will involve adding INNCOM RF/Ethernet edge routers to every-other floor in new IDF cabinets for new HSIA WiFi, and original room thermostats will be networked across the new network system back to an IC3 server. The result will be savings similar to those in the Marina Tower and improved property-wide performance."

Energy Consumption	Std. kWh	Ref. kWh	Saved kWh	Saved %
Heating	1188921.8	2116239.0	927317.2	43.8
Cooling	1660848.4	2113064.4	452216.0	21.4
Fan	207707.3	225504.2	17796.9	7.9
Total	3057477.5	4454807.6	1397330.1	31.4

Sheraton Hotel, Parsippany New Jersey

This report summarizes the operating efficiency data provided by the INNCOM System that is installed in 390 guestrooms at a Sheraton in New Jersey. This analysis is based on equipment "run-time" and events which are continually measured and recorded for each mode of operation the HVAC equipment is in. The data is then compiled, and the analysis is based on the industry standards and history property specific data.

Energy Consumption	Std. kWh	Ref. kWh	Saved kWh	Saved %
Heating	325289.9	943870.4	618580.5	65.5
Cooling	373991.5	630729.4	256737.9	40.7
Fan	32516.6	95494.5	62977.8	65.9
Total	731798.0	1670094.3	938296.3	56.2

Cost Comparison	Std. \$	Ref. \$	Saved \$	Saved %
Heating	42287.7	122703.2	80415.5	65.5
Cooling	48618.9	81994.8	33375.9	40.7
Fan	4227.2	12414.3	8187.1	65.9
Total	95133.7	217112.3	121978.5	56.2

Westin Hotel, Waltham, MA

This report summarizes the HVAC equipment run-time reductions achieved by the INNCOM System installed in 351 guestrooms. The results show that the property has reduced its run time, on average, **24.75% over the past 12 months**. Reductions in equipment run time are normally directly correlated to similar reductions in energy usage.

