SMART COOLING

CASE STUDY

Novotel hotel

Dubai

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Electricity consumption decreased by 21% after the installation of the intelligent adiabatic **Smart Cooling™** system on Novotel’s cooling equipment.”

SOLUTION

Installed on the hotel’s chillers, **Smart Cooling ™** ensures a boost of cooling capacity and prevents the cooling units from overloading during heat season.

Smart Cooling’s™ solution considerably improves cooling efficiency at Novotel Dubai, ensuring more cooling power for the chiller and reduced electricity consumption.

RESULTS

The chart shows the comparison of total KWh consumed in four consecutive days with **Smart Cooling™** switched on and switched off.

The equipment tested was a Petra APSa 325-25 air-cooled water chiller.

The return on investment (ROI) period for in this project is only 12 months.

Petra APSa 325-25 chiller produced cooling capacity, in KWh, over identical period (4 days) and T, °C in regime Y2017/19.

CHECKED AND TESTED FOR PROVEN RESULTS

Efficacy assessment has been conducted and validated. Testing was performed with BTU liquid flow and temperature meter RIF600 and Eniscope energy monitoring equipment.

CUSTOMER

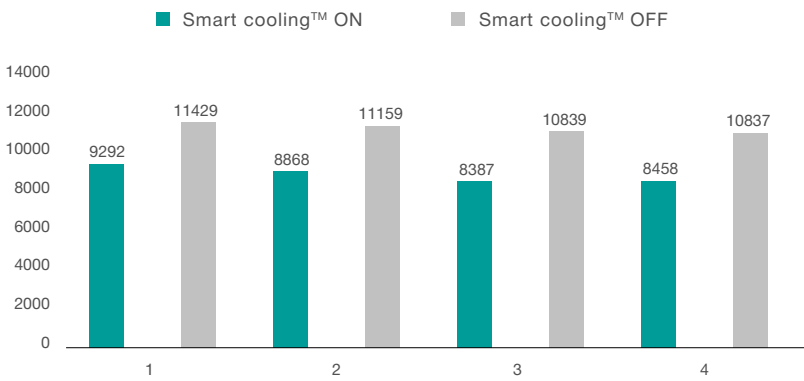
Novotel is Accor Group’s flagship property, focused on modern and intuitive designs. Novotel manages 492 hotels in 59 countries around the world.

The **Smart Cooling™** equipment installed was studied by Ecovis Engineering and overseen by the Akura Group-Novotel-Ibis Hotels Corporation.

CHALLENGE

During heat season, electricity consumption and chiller load are at their maximum, affecting costs and lifespan of the chillers. To reduce electricity consumption with an environmentally-friendly technology was a priority for Novotel Dubai.

Boosting cooling efficiency would mean less operational hours on the compressors and better cooling capacity.



COOLING CAPACITY INCREASED BY ↑24%

ELECTRIC ENERGY CONSUMPTION REDUCED BY ↓21%

ROI 12 MONTHS