

OUR CLIENT

Background

Absolute Resorts & Hotels is a leading lifestyle resort group in Asia driven to deliver guests the best vacation experience. They are strongly committed to integrating social and environmental initiatives throughout their entire hotel operations.

The latest example is its contribution in transforming a local school library via the use of EcoBricks made by waste collected locally in Phuket in July 2019. As a testament to its long-term commitment to corporate and social responsibility, Absolute Resorts & Hotels was awarded with the Special Recognition in CSR Award at the 2014 Thailand Property Awards.

The Challenge

Given Thailand's steady growth in the tourism and hospitality sector, hotels are amongst the highest consumers of energy. Much of the costs in a typical hotel comes from Heating, Ventilation, and Air Conditioning (HVAC) systems, which comprise between 25-50% of the total energy costs. In fact, the largest proportion of HVAC energy use is attributable to guestroom cooling, primarily as a result of the inefficient use of guestroom A/Cs by hotel guests.

Due to Thailand's humid climate, Absolute Bangla Suites, Phuket, had to address the additional challenge of ensuring optimum guestroom comfort and excellent room maintenance in spite of the high level of humidity and mildew risks that could easily damage in-room materials and produce bad odours.

As a hotel group that advocates environmental sustainability via innovation, Absolute Bangla Suites sought a smart energy management solution that could both optimise energy consumption while simultaneously maximising guest satisfaction and comfort.

ABSOLUTE BANGLA SUITES

AUTOMATED A/C UNITS

67

HVAC ENERGY SAVINGS

25%

PROJECT TIMELINE:

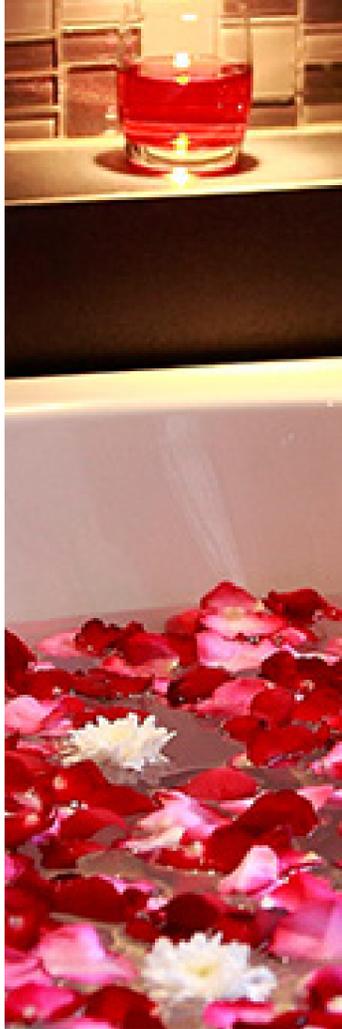
SINCE OCTOBER 2019

PROPERTY TYPE

BOUTIQUE HOTEL

TYPE OF HVAC

SPLIT-UNIT SYSTEM



Our Solution

Absolute Bangla Suites chose to install SensorFlow's wireless smart solution across all their rooms and is now able to immediately automate their Split-Unit HVAC system based on live guestroom occupancy status. This means that if guests had exited their room but left the air conditioner (A/C) running, SensorFlow's solution would automatically switch off the A/C in those empty rooms without manual intervention.

Absolute Bangla Suites' staff could also remotely monitor live data on each room's environment via SensorFlow's online dashboard, including room occupancy, A/C energy use, ambient temperature, humidity, dew point levels and even guest setpoint temperature. This enabled them to conduct remote monitoring and management of their rooms and A/C systems allowing their housekeeping and engineering teams to glean actionable insights and develop data-driven strategies to maximise operational efficiency and productivity as well as guestroom comfort.

“Since retrofitting SensorFlow’s automation solution for Absolute Bangla Suites, we’ve achieved significant cost savings for the property as well as enhanced our ability to cater to our guests’ personal needs and comfort requests. What’s amazing is that we’re achieving all these while reducing our carbon footprint substantially.”

- Michael Massey, General Manager

The Results

After installing SensorFlow's solution in October 2019, Absolute Bangla Suites was able to save up to 25% of their monthly HVAC energy consumption. On average, they achieved 10,000 to 13,000 kWh in energy savings, translating to THB30,000 - THB40,000 (USD\$950 - USD\$1,266) in monetary savings every month.

Absolute Bangla Suites also achieved additional savings of \$0.46 (10.21 THB) per room within two months of implementing SensorFlow's recommended

setpoint optimisation strategy. Based on these figures, they are projected to offset over 65 tonnes of CO2 emissions annually.

Beyond energy savings, Absolute Bangla Suites' significantly improved their management of guest room comfort as staff could remotely control the A/Cs from an online dashboard, enabling them to resolve A/C-related guest requests and complaints with more agility and efficiency.

With SensorFlow's monthly reports on rooms at risk of humidity and mould issues, Absolute Bangla Suites successfully optimised the upkeep of these guest rooms during the COVID19 closure period, thus avoiding costly repairs and ensuring optimal room comfort upon their reopening.

Ultimately, with SensorFlow's solution in place, Absolute Bangla Suites can expect improved sustainability, optimised productivity and higher guest satisfaction – an endeavour crucial to continuing their commitment towards energy-efficient and sustainability-focused operations.