

CHENACT Presents:



Watts New- Bright Ideas #2 Guestroom Energy Controls

Watts New-Bright Ideas is a new series feature being sponsored by the CHTA based on the lessons learned from the CHENACT project. The Caribbean Hotel Energy Efficiency Action (CHENACT) project is designed to improve the competitiveness of small to medium sized hotels in the Caribbean through the introduction of energy efficiency and on-site renewable energy. In addition to the energy related cost savings at the property level, CHENACT will determine the potential for reducing greenhouse gas (GHG) emissions and imported oil at the national level associated with utility electricity generation.

Resulting from the detailed energy audit of a 280-room hotel in Barbados, the audit team identified six projects which would help reduce the hotel's annual electricity consumption by 42%, or 1,264,784 kWh annually. In addition, these measures would reduce Carbon Dioxide (CO₂) emissions by 744 tons per year. At a cost of US\$741,715, the hotel will save US\$292,689 annually, an overall payback period of just over 2.5 years.

Did you know ...

...that guestrooms are occupied, on average, for about 30% of the time guests are registered in hotel. Guestroom controls for air conditioning and lighting can significantly reduce guestroom energy consumption without sacrificing guest comfort. Key card systems, occupancy sensors and programmable thermostats are examples of guestroom controls.

For this 280-room hotel, installation of occupancy sensors together with patio door and entrance door switches are used to detect the presence of people in the room requires an initial investment cost of US\$168,000, the hotel would see annual savings of US\$67,000, a payback period of just over 2.5 years.



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