

Saving energy now at your finger tips





# griffin & ray GEMS

Guestroom Energy Management System



## Application

Generally Building owners or operators are under tremendous pressure to mitigate the rising energy costs and choose between the very many systems available in the market that promise to help. Hotel industry has the additional onus to meet their service standards while saving energy. Studies show the energy spending on operational costs is significant and inspite of this hospitality sector and hotel operators are often hesitant to engage in activities that could be perceived as reducing comfort, convenience or the overall brand experience. Putting together a solution that is cost-effective ,while effective in energy savings ,easy to install in existing hotels with guest , reduced failures and down times ,easy maintenance and overall security on investment is the need of the hour. Understanding this , our solution not only guarantees for the solution features , but also hassle-free execution of the same without service interruption compromised quality of service.





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## Introduction

- ➔ Energy cost contributes to the total product cost
- ➔ Energy consumption has become National and Global priority
- ➔ Electrical energy saving is very important due to global warming and economic destruction
- ➔ Huge gap between demand and supply
- ➔ Shortage in electrical energy results in implementation of various energy conservation measures



## Need for Energy Saving

- ➔ KW Reduction
- ➔ National Interest
- ➔ Green Environment







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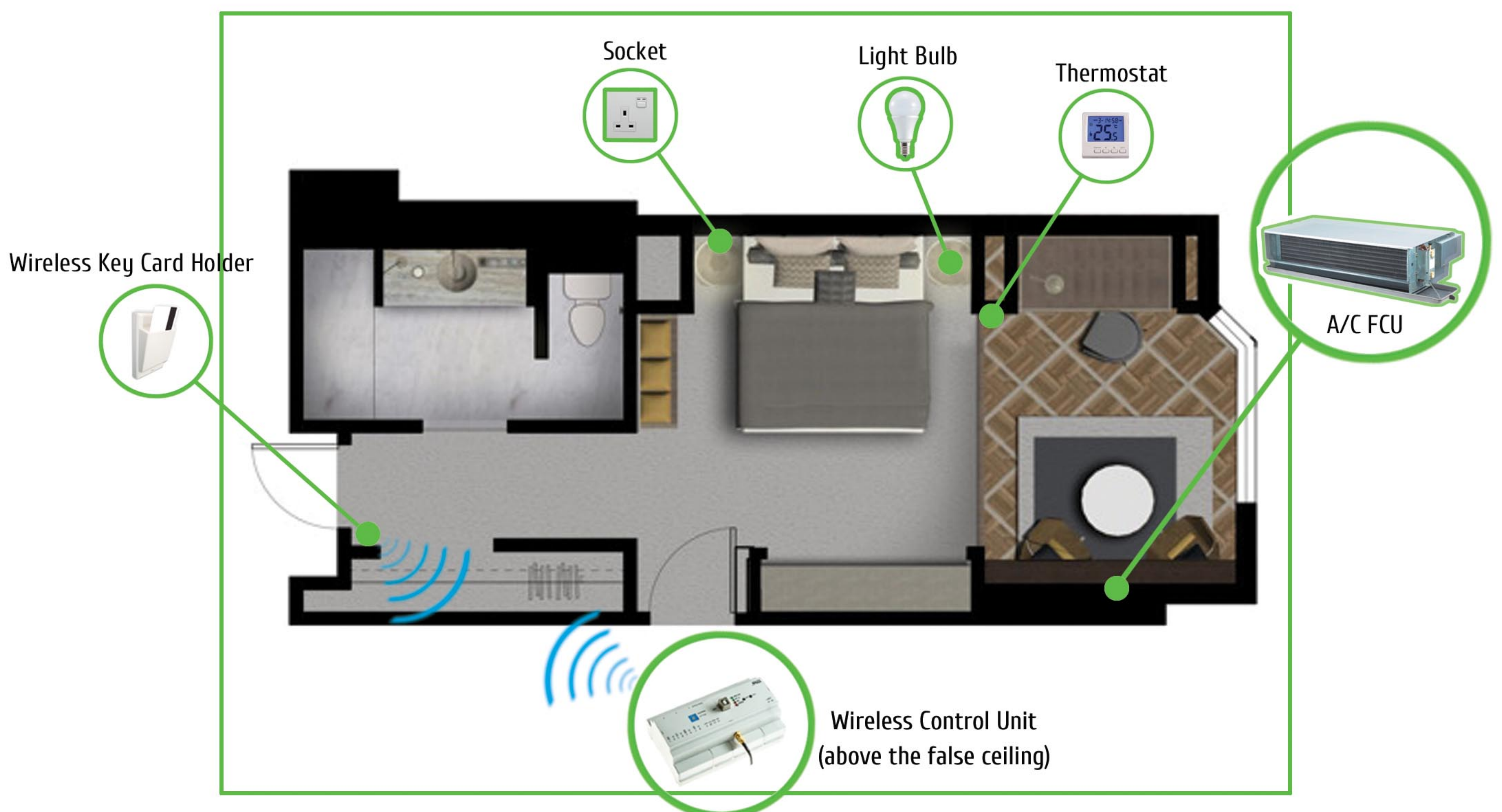
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## How GEMS works ?

The EnOcean based wireless battery-less key card holder switch controls the guestroom occupancy status. On each entry and exit, the occupant places or removes the key card from the holder. This activates or deactivates the occupancy mode by sending a signal to the wireless control unit placed above the false ceiling.

The interface box relays the same to the energize the lighting circuits and plug loads as well as the thermostat to activate the appropriate pre-defined set point. The thermostat also works as a full fledged room controller having features to add door bell notification and DND or MUR activation. Further addition of our centralized system enables managers to set seasonal set points or base them on cooling degree days or live weather data.



This offers a comprehensive "all you need" solution for very less, which is inter-operable, scalable and upgradeable with only additions and no replacements. There is return of investment from the energy savings while it is secure as there are no vendor-lock-ins. Using our system in retrofit applications can provide a relatively quick and easy energy savings solution for hotel owners and managers who wish to quickly establish control over rising energy costs.





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## Key Features

- ➔ EnOcean Based Wireless Batteryless systems.
- ➔ Energy Savings.
- ➔ Easy retrofit.
- ➔ Easy installation.
- ➔ Intuitive.
- ➔ Open and inter-operable.
- ➔ Conforms to industry standards.

## Key Benefits

- Fast ROI
- Maintenance Free (no batteries)
- Promotes LEED certification
- Setup in minutes
- Easy to use
- Minimal installation cost
- Scalable and Upgradable (with additions and no replacement !)

## Key Differentiators

- Built-in PIR sensor has blind spots
- Additional PIR sensor required wiring
- Door contacts don't determine occupancy
- Seasonal Setpoints for occupied/unoccupied modes for HVAC
- Occupancy based activation of lights and other loads





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## System Components



### Wireless Battery-less Key Card Holder Switch

- Wireless Battery-less
- Available in many colors to suit interiors
- Easy stick-on type



### Wireless Control Unit

- Powered EnOcean Receiver uni-directional
- Multi Channel relays



### Room Controller Thermostat

- Bright Backlit Touch Screen
- Intuitive Operation
- 1 or 3 Fan Speed Control
- Relay Outputs
- 0-10Volt outputs
- Modbus RTU Communications
- Occupancy Inputs
- Temperature Control Limits



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