Energy-saving Projects – Hotel Business

Optimizing Cooling Systems through **Magnetic Oil-Free Chiller** Integration — **Reducing Energy Consumption by Up to 30%** Compared to Standard Chillers.

Heat Pumps for Efficient Hot Water Production — **Reducing Fuel Consumption and Lowering Costs** through extracting Heat from the Atmosphere and Transferring It to the System's Heat Source. Simultaneously, Cool Air Is Released, Which Can Be Utilized in Air Conditioning Systems and Common Areas.

Inverter split-type air conditioning systems enhance **energy efficiency** by regulating compressor speed to maintain consistent cooling. Units can operate independently based on demand, **reducing unnecessary energy consumption.**

Installing HVAC (Heating, Ventilation, and Air Conditioning) systems to control and adjust temperature, humidity, and air circulation systems for **efficient energy** management within buildings, together with B**uilding Management Systems (BMS)**.

Installing a **solar water heating system** to convert solar energy into thermal energy for **efficient hot water production.**

Installing **Motion sensor light bulbs** in common areas, hallways, public restrooms, and backyard areas to **control electricity usage.**

Installing **EV charging stations** across 30 hotel locations (2024) to promote the **use of clean energy and support sustainable transportation.**

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Energy-saving Projects – Food Business

The **Smart Internet of Things (IoT) Lighting Project** features motion sensors, adaptive dimming, real-time monitoring and analytics via a central platform, as well as remote control and automation through an application—collectively helping to **reduce energy consumption and optimize resource use.**

The **Smart IoT Air Conditioning Project** features occupancy sensors that automatically turn the air conditioner on and off based on room usage, temperature control to maintain optimal comfort levels, real-time monitoring and analytics through a central platform, and remote control and automation via an application—contributing to **reduced energy consumption and enhanced operational efficiency.**

The **Variable Speed Drive integration** enables rotational speed adjustments based on workload, supported by adaptive speed control, reduced electrical load, and extended machine lifespan. The system can be monitored through an IoT system and cloud platform—**facilitating energy optimization, improving operational efficiency, and reducing maintenance costs in the long run.**

The **Block Zone Project** enables flexible management of store space through strategic zoning and smart store sizing, **optimizing space utilization and enhancing operational efficiency.**

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