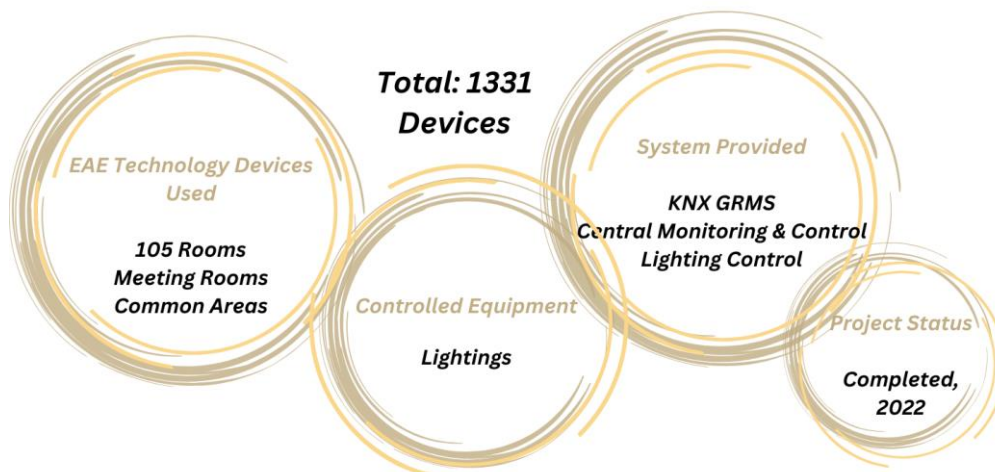


BURDOCK MARRIOTT HOTEL – Karakoy, Istanbul – TURKEY

Case Study



<https://www.marriott.com/en-us/hotels/istao-burdock-hotel-istanbul-autograph-collection/overview/?scid=f2ae0541-1279-4f24-b197-a979c79310b0>



Customer Review

EAE Technology's lighting control system has optimized our facility's operations by significantly decreasing manual interventions. The system's integration with our building management part which make us availble to monitor overall project.

Occupancy based control facilitates automated air conditioning control, leading to enhanced energy efficiency and operational effectiveness. We are satisfied with the performance of the products and the overall system, as they streamline workflow and ensure precise environmental management, aligning with our goals for energy conservation and system reliability.

Samet Yıldız
Technical Manager

Project Scope

JW Marriott Istanbul Bosphorus's KNX Guest Room Management System, engineered by EAE Technology, prioritizes energy efficiency, security, and guest comfort.

Centralized control and monitoring are achieved through seamless integration with the building's BMS, allowing for remote management of the KNX GRMS system.

The system incorporates intelligent lighting control and advanced automation scenes to optimize energy consumption.



Used EAE Technology Devices

Field Devices	Quantity	Panel Devices	Quantity
Touch panel	9	Power Supply	45
Push Button Switches	498	Room Control Unit	198
Sensor	487	Dali Gateway	55
		Line Coupler	35
		IP Router	4

Project Concept

The Karaköy Marriott Hotel, a 105-room luxury hotel in Istanbul, is dedicated to providing exceptional guest experiences while optimizing operations and minimizing resource consumption. This project leverages GRMS software to implement energy-saving room sensor scenarios, enhancing both guest comfort and environmental sustainability.

EAE Technology's IP44-rated presence sensors enable hotel room to execute the scenarios, providing efficient occupancy-based control in all areas, including bathrooms.



Pre-Welcome: As the guest enters the room, the entrance lighting automatically turns on, creating an inviting atmosphere.

Welcome: Lighting are fully operational as long as the presence sensor detects the guest's occupancy.

Leave: When the guest exits and closes the door, the leave scenario is triggered after a specified period, turning off all lights.

Check-in: When check in is done, the room got energised without energy consumption. For example, sockets became operational.

Check-out: When check in out done, the energy of the room is cut of. All the energy consumption has been stopped.

Integration with BMS

Room occupancy information, transmitted via a logic machine device using BACnet, allows the BMS software to automatically regulate air conditioning temperatures to the desired level.

Oria Push Switches and Thermostats

EAE Technology's energy-efficient Guest Room Management system elevates the guest experience. The Crown Plaza Dushanbe project showcases Oria push-button switches in anthracite and pearl white, offering 1F, 2F, 3F, and 4F button configurations for intuitive control and a refined design aesthetic.



Other Devices



Power Supply



Room Control Unit



DALI Gateway



IP Router



Line Coupler