

FIVE ▶

The following document contains a comprehensive index of FIVE's Energy Efficiency measures mapped to its operational properties as of 2023.

Building Envelope

FIVE Palm Jumeirah



304 Water Thermal Solar Panels are in place



FIVE Palm's glass cube structure harnesses natural light to illuminate the main atrium and corridors of entrance.

FIVE ▶



Extensive greenery of façade and infrastructure reduces cooling load through green coverage

FIVE Jumeirah Village



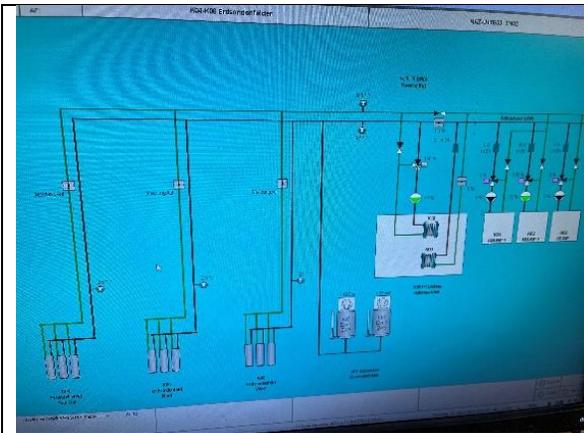
FIVE Jumeirah Village façade reduces cooling load through ventilating corkscrew, green coverage

FIVE ▶



Green vertical and lateral coverage of podium reduces cooling load

FIVE Zurich



Free-Cooling and Free-Heating
Geothermal system is place which provides carbon-light HVAC service to building

FIVE ▶



EV charging port available for guest Electric Vehicles



Terrestrial Green Roof, promoting natural cooling



The incorporation of wood cladding on the exterior reduces cooling load due to the relative higher heat capacity of natural material

Smart Lighting Control System

FIVE ▶

FIVE Palm Jumeirah

	<p>100% LED Lights across the building facility</p>
	<p>Motion sensor lighting is in place to provide energy efficient lighting system</p>
	<p>Energy Savings Stickers throughout offices</p>

FIVE ▶

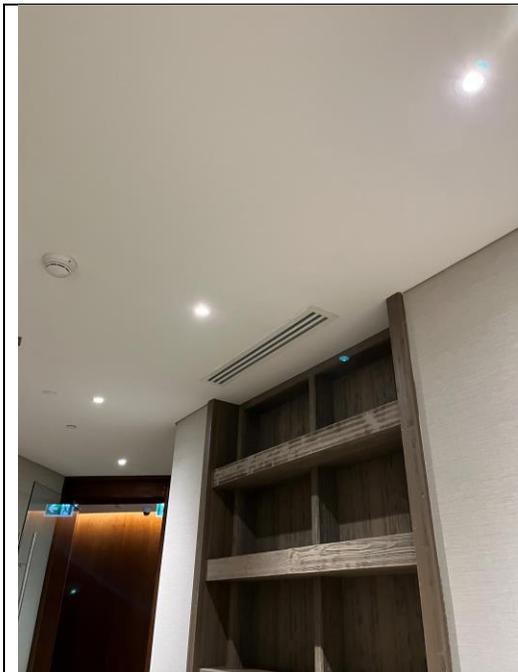


FIVE ▶



Timer-based stairwell and corridor lighting switch is in place which conserves energy.

FIVE Jumeirah Village



100% LED lights throughout the building

FIVE ▶



Energy saving signage is provided throughout offices to encourage sustainability



Energy Saving stickers are posted in all employee areas

FIVE ▶



Motion sensor lighting in corridors



Timer-based light switches are in place in stairwells

FIVE ▶



Photocell lighting provides ambient light based triggering of outdoor lighting to conserve energy and promote aesthetic balance

FIVE Zurich

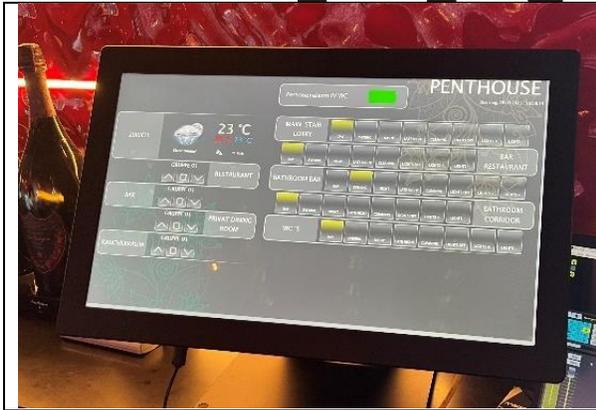


100% LED lights are included in the building



Motion sensor lights are equipped throughout building

FIVE ▶



A 3-Mode ambient lighting system is in place to adjust the brightness of indoor lighting in line with the day's natural cycles (morning/afternoon, evening, night) which promotes circadian rhythms and wellbeing

Guest Room Management System (GRMS)

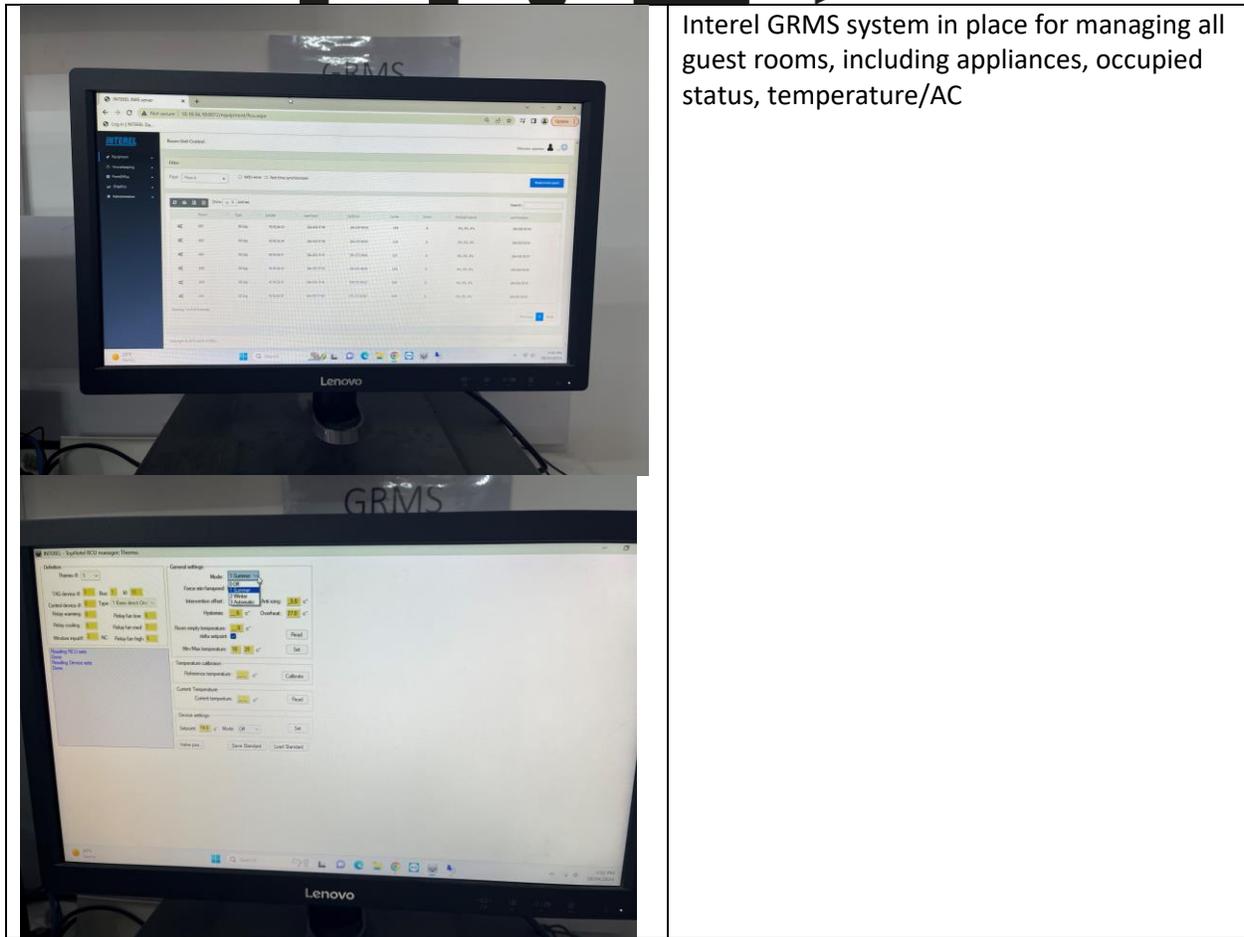
FIVE Palm Jumeirah



The building is equipped with a GRMS system which provides remote monitoring of guest room A/C-Temperature, occupied modes, and energy appliance status.

FIVE Jumeirah Village

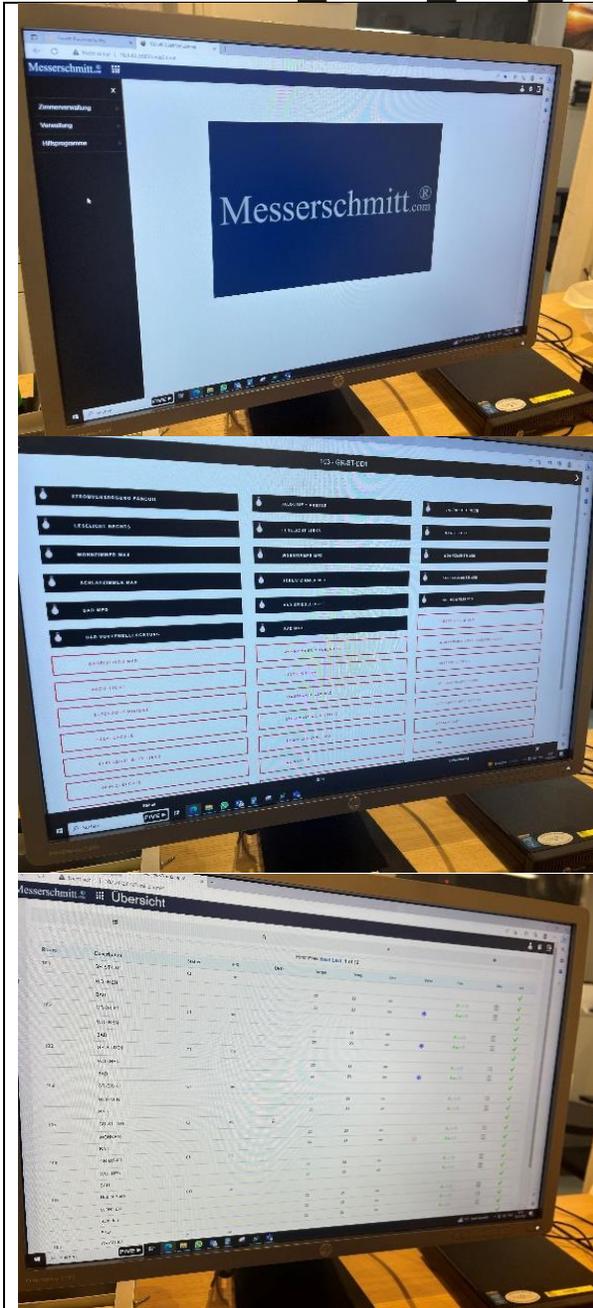
FIVE ▶



FIVE Zurich

- Guest Rooms operate via a GRMS system which requires guests to insert their room card to operate the energy appliances of the room
- The GRMS desktop command center is monitored by engineers who can view the performance of appliances in every room, the temperature, and whether the window is open. Rooms are fitted with a speaker which can provide direct communication with guests in the event of an emergency
- Balcony contact switches automatically shut the A/C upon detection of open window

FIVE ▶



Guest Room Management System (GRMS) by Messerschmitt can provide real time data for all guest rooms on factors including temperature, appliance power, window opening, and occupied status. GRMS requires card insertion to access appliances of the room and accordingly shuts off upon guest exit of room

FIVE ▶



Building Management System (BMS)

FIVE Palm Jumeirah

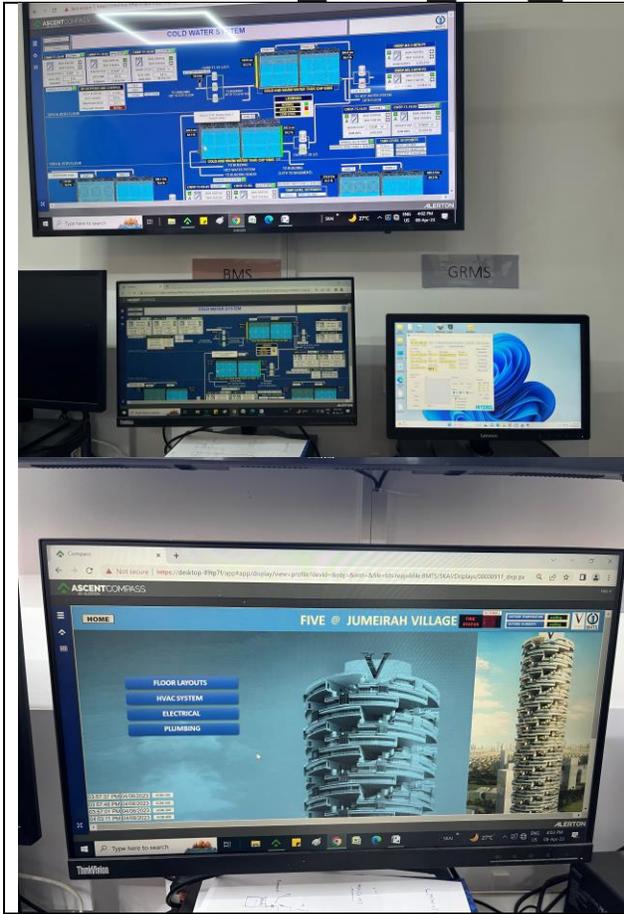
FIVE ▶



The building is equipped with BMS which regulates and monitors utilities including air quality, water pressure, energy etc.

FIVE Jumeirah Village

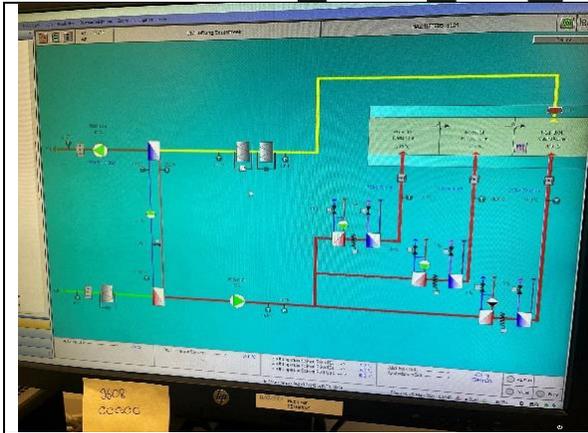
FIVE ▶



A BMS (Building Management System) is in place providing real time monitoring of utilities

FIVE Zurich

FIVE ▶



Hotel is equipped with a BMS (Building Management System) to monitor and regulate utilities