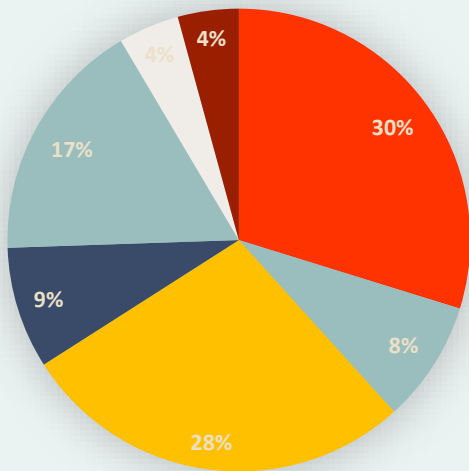




# Hilton Dubai Palm Jumeirah

Trakhees-EHS In-House Certification

## Project Scorecard



- Sustainable Sites
- Water Efficiency
- Energy & Atmosphere
- Materials & Resources
- Indoor Environmental Quality
- Innovation & Design Process
- Regional Priority

## Project Brief

The proposed project is B+G+13 RESORT HOTEL IN PLOT ID: PJTRH03. Platinum Sustainable Development International were entrusted to meet the sustainability requirements for the project.

The key sustainability goals for the project were: Energy efficiency to achieve low operating costs, water savings, use of environmental friendly materials in construction and provide a healthy indoor environment for its occupants. Through meticulous approach implemented by the project team, the project was able to achieve - EHS In House Certified rating level.

### Platinum’s work for the project include:

- Green Building Facilitation (Design and Construction)
- Independent Commissioning services
- Energy Modeling services



**Platinum Sustainable Development International**

Green Buildings | Estidama | LEED | Building Commissioning | Environmental Services

## Overview of Key Green Building Features

### Energy Efficiency

Platinum's team facilitated various design charrettes with Client, Architects & MEP Engineers, to ensure the green building requirements and high-performance features are effectively incorporated for the project.



By carrying out energy modeling simulation and analysis, various energy conservation measures were explored. These measures were further optimized, to ensure the project was **26.22% more energy efficient** when compared to ASHRAE standards. This was achieved by:

- Highly Insulated wall and roof elements
- Thermally efficient glazing units
- Installation of energy efficient air-cooled chillers
- Energy efficient LED and CFL lamps



## Water Conservation

On water management front, some of the features considered were:

- Selection of water efficient fixtures like ultra-low flow mixers, urinals and water closets, by which the overall fresh water consumption was reduced by **32.01%**.
- More than **78.92% of potable water savings** in irrigation were achieved using drip irrigation technologies and by planting native / adaptive plants.

## Enhanced Indoor Environment

- Use of low VOC contents paints, coatings, adhesives and sealants
- All fresh air handling devices are equipped with ultra-efficient MERV 13 rated air filters
- Optimum thermal comfort level & fresh air supply for entire building
- Ventilation requirements were compliant to ASHRAE 62.1 standards

## Building Materials, Construction Practices & Green Features

- Construction practices were enhanced by proper implementation of construction activity pollution prevention measures, waste management methods and indoor air quality measures
- 10.90% of the materials used, included a combination of post-consumer and pre-consumer recycled content.
- 20.89% of the materials used, were extracted and manufactured within 500 miles of the project location
- More than 50% of construction wastes generated were re-used / diverted from landfill, by adopting efficient waste management strategies.
- Heat island effects were reduced by use of high SRI value materials on roof
- 100% of the car parking space are covered
- Provision were made for preferred car parks for carpool vehicles
- Spaces were provided for storage & collection of recyclables
- Non CFC based HVAC and fire suppression systems were provided