

ECS GLOBAL WIRE & CABLE FZCO



	37	69
Sustainable Sites	9	14
Water Efficiency	3	5
Energy & Atmosphere	7	17
Materials & Resources	6	13
Indoor Environmental	9	15
Innovation & Design	3	5

Points Achieved
 Points Available

LEED POINT ACHIEVEMENT

FAST FACTS

LEED Certification: Silver, New Construction (NC) V2.2
Square Feet: 36,196 sqft / Office & Warehouse
Neighborhood: Jebel Ali Free Zone, Dubai, UAE
Construction Cost: \$110 / square foot
Completed: June 2010
Date of Certification: October 9, 2010

BENEFITS

- 25.4% Savings on Energy Use
- 30.6% Savings on Potable Water Use
- 95.96% Of Construction Waste Diverted from Landfill

PROJECT BACKGROUND

A new resolution on the implementation of green building specifications and standards in the emirates of Dubai has been issued by H.H. Sheikh Mohammed bin Rashid Al Maktoum, Vice-President and Prime Minister of UAE and ruler of Dubai. As per the new resolution, effective on January 2008, all owners of residential and commercial buildings and properties in the emirates of Dubai must comply with the internationally recognized environment friendly specifications to turn Dubai into a healthy city that meets the demands of best practices and benchmarks of pollution-free sustainable development.

Implementing this resolution, Dubai becomes the first city in the Middle East to adopt green building specifications and requirements. The resolution falls in line with Sheikh Mohammed's keen interest in dealing with the current environmental challenges.

In response to this resolution, we are proud to inform that "ECS GLOBAL WIRE & CABLE FZCO" has been awarded with **Prestigious LEED Silver Certification** established by the U.S. Green Building Council and verified by the Green Building Certification Institute (GBCI). It is the 8th project in the UAE to achieve the LEED NC v2.2 Silver Certification.





PROJECT PROFILE

ECS GLOBAL WIRE & CABLE FZCO , JAFZA, Dubai, UAE

THE NEW BUILDING

ECS Global Wire & Cable FZCO is a new construction project with a total built-up area of 36,196 sqft, consisting of 8,007 sqft for office area in 2 floors and 28,189 sqft for warehouse space.

The new office and warehouse construction is designed to be environmental friendly distribution facility in Jebel Ali Free Zone which will be the distribution hub for supplying wire and cable in Middle East and North Africa. This office is designed for a maximum of 40 employees and 10 warehouse staff. The office has the proper facility in place to accommodate any disabled person. ECS wants to ensure that the health and the safety of its staff is considered in the design of the building.

INDOOR ENVIRONMENTAL QUALITY

To provide a comfortable and healthy indoor environment, ECS Global Wire & Cable incorporated the following:

- During construction and before occupancy, an indoor air quality management system was developed and followed
- Use of low voc adhesives, sealants, paints and coatings, and CRI certified carpets
- Provide sufficient thermal control for all shared occupant spaces
- Provide direct line of sight views for 93.57% of all regularly occupied areas
- Specify thermal comfort criteria that meet ASHRAE Std. 55-2004

ENERGY EFFICIENCY AND RENEWABLE ENERGY

ECS Global Wire & Cable achieved an energy cost savings of 25.4% using the ASHRAE 90.1-2004 Appendix G methodology.

The following are the Energy Conservation Measures incorporated in the project:

- High efficiency HVAC system
- High-performance building envelope insulation
- High efficiency glazing
- Reduced interior lighting power density
- Utilization of onsite renewable energy – Solar PV panel for external lighting

OTHER GREEN FEATURES INCLUDE

- 21.158% Materials use with recyclable content
- 23.267% Regional materials use
- 100% covered parking with SRI value of 63
- 93.286% of the roof surface having an SRI value of 79
- Provide shower and changing rooms
- Provide vehicle access to support car and van pooling
- Developed and implemented a stormwater management plan

LESSONS LEARNED

- Timely coordination is the key for the successful implementation of sustainable features
- Pre-planning helps in optimizing investment towards green building

THE TEAM

Owner: ECS Global Wire & Cable FZCO

Design Consultant: Torpy Engineering Consultants

Contractor: Techno Steel

Green Building Consultant: Middle East Centre for Sustainable Development (MECSD), Dubai, UAE

LEED AP: Mr. Nowfal Kunju Muhammed & Mr. Pushkar Dwivedi

Commissioning Authority: Pacific Control Systems

Photograph Courtesy of: ECS Global Wire & Cable FZCO