

U.S. Consulate General Dubai LEED® Gold Certified



The U.S. Consulate General in Dubai, United Arab Emirates is a Leadership in Energy and Environmental Design (LEED®) Gold Certified building under the LEED for new construction green building rating system. The Consulate General joins an elite group of buildings in Dubai earning this certification.

Site 5.89 acres | Project Cost \$128 Million | Occupancy August 2011

Sustainable Site

The Consulate General is located along Dubai Creek, just less than half a mile from the Burjuman metro stop. There is also a network of street and water taxis that service the site. Dubai experiences prolonged periods of extreme heat. To mitigate the impact to occupants and visitors, light color concrete was used as hardscape throughout the site, which reflects, rather than absorbs, the sun's heat. All parking spaces and outdoor waiting areas are protected by shade structures.

Water Efficiency

Water conservation is a critical issue in Dubai, due to the desert setting with no local freshwater sources. To reduce the Consulate's demand for potable water, the landscape was designed to reduce irrigation demand by over 50% using drip irrigation, and gravel is used in non-public areas to further reduce the need for irrigation. The building is calculated to use 41% less water than the performance requirements of EPA Act 1992.

Materials and Resources

This facility was built using sustainable materials. Over 13% of base building materials contain recycled content including rebar, gypsum board, metal studs, carpet, and sun shades. An estimated 75% of waste generated during construction was diverted from landfills and incinerators by separating cardboard, plastic, wood, and metal scraps prior to allowing the recycling hauler to remove the materials.

Energy and Atmosphere

The new Consulate is projected to reduce facility energy costs by 22%, compared to the calculated baseline (ASHRAE 90.1-2004). The building's sunshades, white roof, and light-colored stone façade reduce solar heat gain. Additionally, the Consulate employs many energy-efficient technologies including solar hot water; LED task lighting; occupancy and daylight sensors; electric traction elevators; and variable frequency drives for pumps, fans, and motors.

Facility managers are able to utilize the Building Automation System to monitor and control energy consumption of major equipment, as well as adjust the buildings response to diurnal temperature patterns.

Indoor Environmental Quality

Employees and visitors benefit from a superior indoor environment, because CO₂ levels are monitored and adjusted to provide optimal amounts of fresh air and outside air is filtered with HEPA and carbon filters.

Architect PageSoutherlandPage

Contractor B.L. Harbert International

Landscape AST Cowen Design Group

Civil H&A Architects & Engineers

Structural Ehlert / Bryan

MEP H&A Architects & Engineers

Commissioning RMF Engineering
