SITE REPORT
PUBLIC WORKS

Prestigious Museum Complex, Giza, Egypt

New Museum Uses Rain Bird® Irrigation System to Conserve Water & Maximize Budget

Nearly 20 years in the making, this extraordinary landmark sits next to the Pyramids on the edge of the Sahara Desert. When complete, this museum will be the largest archaeological museum complex in the world with more than 100,000 artifacts.

THE CHALLENGE:

As the home of some of Egypt's most treasured antiquities, this new museum represents great national pride and high value for international tourism. Green grass and groundcover plus hardscaping contribute to the site's "wow" factor, but water is scarce in this desert location and there are restrictions on how much can be used for irrigation. Rather than limiting the landscaped area, the museum, along with the contractor, HydroGreen, needs an irrigation system that uses less water.

ESP-SAT Series Satellite Controller

THE SOLUTION:

Install a secure and efficient Rain Bird system that will conserve the limited water supply while maintaining a lush landscape. **"HydroGreen has a long and proud heritage in the contracting field in Egypt, with a long-standing track record of excellence in handling large-scale projects. We are delighted to build on our experience and take on the monumental mega project..."** explains Eng. Fakhry Younan, Founder and Managing Director of HydroGreen.

Core Products Used:

- SiteControl
- ESP-SAT Series Satellite Controller
- 1800® Series PRS Sprays
- 1400 Series Bubbler
- PESB Series Valves
- 5000+ Series Rotors

KEY OBJECTIVES

- ✓ **Conserve water**
- ✓ **Enable secure control**
- ✓ **Maximize budget**

RAIN BIRD®

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APPROACH:

Conserve Water in the Desert

Rain Bird® SiteControl is an easy-to-use central control system that enables precise, efficient watering and system monitoring. It also analyzes weather data, which is used to ration water consumption. The **1400 Series Pressure Compensating Bubblers** have low flow rates that will allow water to be absorbed as needed. The system's Cycle+ Soak™ technology will further conserve water by enabling the museum to customize irrigation based on soil type around the property.

Control the System Securely

Cybersecurity is a particular concern for the Egyptian government, given the value and significance of the artifacts that will be housed inside. SiteControl will work with the **ESP-SAT Series Satellite Controller** to provide secure management of the Rain Bird system without a wireless internet connection. This feature reduces the risk of security breaches on the museum's network.

Maximize Budget with Long-Term Gains

The durable Rain Bird system will offer high-quality components and dependable operation today and for years to come, even under the hot Saharan sun. Maximizing their return on investment, the museum will use **5000+ Series Rotors** with Triple-Blade Wiper Seal and Rain Curtain™ nozzle technology for enduring reliability. They will also opt for heavy-duty **1800 Series Spray Heads**, proven to be the number one commercial-grade spray heads in the world.

"We will be utilizing the latest world-class technology—the Rain Bird SiteControl System—to provide the highest levels of precise monitoring and control of the water utilization throughout the entire project. We are incredibly proud to partner with Rain Bird on such a historic project whose legacy will live on for centuries to come."

ENG. FAKHRY YOUNAN
FOUNDER & MANAGING DIRECTOR, HYDROGREEN

RESULTS:

Fit for a Pharaoh

With its impressive architecture and verdant landscaping, this new museum is a place fit for a king—or in this case, a pharaoh. The ruggedly reliable Rain Bird system makes the most of the museum's budget as well as its limited water supply. All irrigation is easily managed from a secure central control system that communicates via satellite, minimizing security risks and offering peace of mind to museum administrators.