



Fouka Bay Resort, North Coast, Egypt

Exclusive Vacation Destination Developed with Special Focus on Sustainability, Sees Improved Irrigation Performance & Water Savings with Rain Bird® Technology

Fouka Bay is a mixed-use resort with a special blend of beachfront simplicity and true exclusivity. It's a place to relax, socialize and take in the tranquil views of the North Coast of Egypt. The resort was developed with a special focus on sustainability by leading Egyptian real estate developer, Tatweer Misr. Fouka Bay Resort showcases dedication, innovation and expertise in tourism and hospitality across the Mediterranean region.

THE CHALLENGE:

The water in Egypt's North Coast is known to be extremely expensive—approximately \$1.50 per cubic meter. As part of the sustainability practices that Tatweer Misr has put in place for Fouka Bay resort, it's imperative that the resort's irrigation system be highly efficient and accommodate the use of treated greywater. Furthermore, the property is built on descending tiers to preserve the beautiful views. These elevated "steps" make it impossible to use irrigation controllers that require decoders. Accordingly, Rain Bird® will need to introduce a suitable sustainable solution.

THE SOLUTION:

Utilize durable Rain Bird products specifically designed to stand up against reclaimed water. Make use of innovative new technology that does not require decoders, and install equipment to monitor weather and system performance for maximum efficiency.



ESP-LXIVM Two-Wire Controller with Smart Valve Technology

Core Products Used:

- ESP-LXIVM Two-Wire Controller with Smart Valve Technology
- IQ Central Control
- PESB-R with IVM-SOL
- WS-PRO2 Weather Station
- Flow Sensors

KEY OBJECTIVES

- ✓ **Conserve Water**
- ✓ **Eliminate Decoders**
- ✓ **Increase Grit Tolerance**
- ✓ **Manage the Large Site Effectively**



Site Report: Fouka Bay Resort, North Coast, Egypt

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APPROACH:

Introduce Egypt to ESP-LXIVM Two-Wire Controllers

Rain Bird's new ESP-LXIVM Controllers are the perfect fit for Fouka Bay Resort's expansive property. These innovative controllers are decoder-free and support up to 60 stations each. The ESP-LXIVM's advanced flow management tools will enable the resort to immediately identify and resolve any flow issues that could potentially waste water. Integrated Valve Module (IVM) technology will ensure that valves remain in constant communication with the controller to provide efficient irrigation and advanced diagnostics.

Tap into the Power of IQ Central Control

Equipping controllers with IQ Central Control will provide one single, centralized system of management and full transparency into the status and health of the irrigation system. IQ Central Control will process information from the valve solenoids to monitor efficiency, report issues, and automatically quarantine and shut down problem areas. IQ4 will allow irrigation techs to manage the system on their mobile devices—from anywhere—at any time.

Collect Vital Data

FS Series Flow Sensors will be used to monitor the water consumption in public areas. These sensors will allow Fouka Bay Resort to capitalize on IQ4's intelligent Flow Management capabilities. Weather Stations will also communicate with the controller on a daily basis, allowing IQ4 to maximize water efficiency and schedule irrigation based on real-time weather data.



RESULTS:

Significant Water Savings

Thanks to the IQ4 Central Control interpreting data from weather stations, flow sensors and smart valves, the resort now operates with tremendous water efficiency. Fouka Bay Resort has also discussed the use of subsurface irrigation for even greater water savings in the future.

A Technology Trailblazer

Between two and four IVM Smart Valves were installed at every single chalet on the property. Because ESP-LXIVM controllers can support up to 60 stations, **Fouka Bay Resort was able to reduce the number of controllers needed from 9 to 5!** This means less antennas and less risk for irrigation techs in the rain. IVM was a true win-win for Fouka Bay Resort, providing savings and efficiency at every step—from installation to operation. **This large-scale project was the first site to use Rain Bird's IVM technology in Egypt, and paves the way for many more to come.**