



# Upscale Satellite City, Cairo, Egypt

## Satellite City Upgrades to Rain Bird® Products for Phase 3 and Phase 4 of Construction

Global architecture design and planning firm, Gensler, is overseeing the development of an upscale satellite city in Cairo. The project is ongoing and being completed in several phases. The city's master plan capitalizes on the landform of a former quarry site, creating distinct districts on high ridges and sloped plateaus, maximizing the incredible views of the nearby pyramids.

### THE CHALLENGE

Irrigation products used in Phase 1 and 2 of the project have created maintenance and operation issues. The current system requires the client to change out more than 20 decoders per year, which is labor intensive and expensive. The project area also spans over 300,000 square meters and with the current system, it has been difficult to identify the location of irrigation problems, resulting in wasted water and operational inefficiency.

### THE SOLUTION:

Utilize innovative Rain Bird products for irrigation of the new golf course and urban landscaping in Phase 3 and 4 of the project. Increase efficiency, eliminate the need for decoders, and provide accurate diagnostic reporting for a more seamless, reliable system.



ESP-LXIVM 2-Wire Controller with Smart Valve Technology

#### Core Products Used:

- [ESP-LXIVM 2-Wire Controller with Smart Valve Technology](#)
- [PESB Series Valves Preinstalled with IVM Sol](#)
- [FS Series Flow Sensors](#)
- [IQ4 Central Control](#)

#### KEY OBJECTIVES

- ✓ **Increase Operational Efficiency**
- ✓ **Provide a Low Maintenance System**
- ✓ **Reduce Water Waste**
- ✓ **Enable Remote Management**



## Site Report: **Upscale Satellite City, Cairo, Egypt**

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### APPROACH:

## Install ESP-LXIVM 2-Wire Controller with Smart Valve Technology

The ESP-LXIVM is an innovative, low-maintenance irrigation controller that is easily installed, supports up to 60 stations, and does not require the use of decoders. Instead, IVM Smart Valves are fitted with Smart Valve Technology for two-way communication between the controller and valve. This allows for real-time reporting on valve health, making it **200% more reliable** than using a decoder.

## Set Up IQ Central Control

IQ4 Central Control allows for remote management of all operations from anywhere on any mobile device. At the cutting edge of irrigation technology, the platform uses Google Maps to immediately identify the location of problems. IQ4 Central Control integrates smoothly with the LXIVM system and provides an intuitive, easy-to-navigate interface with precise programming and control features.

## Opt for FS Series Flow Sensors

Compatible with the ESP-LXIVM 2-Wire Controller, Rain Bird's FS Series Flow Sensors are equipped with Flo-Watch™ and FloManager® capabilities. Flo-Watch actively monitors the flow conditions and alerts IQ4 of high flow or low flow issues so that it may shut down problem areas to prevent water waste. Similarly, FloManager® works to maximize usage of available water and reduce the amount of time needed to complete an irrigation cycle.



### RESULTS:

## Minimum Spend, Maximum Success

Thanks to Rain Bird's leading edge irrigation solutions, this satellite city can now manage their irrigation system in an economical and efficient manner. Water flow issues are easily identified and addressed, minimizing water waste and expenditure. Irrigation techs have full visibility into the status and health of the system.

**The city will ultimately be able to conserve more water, spend less money, and leave decoder problems in the past.**

