

Tiscali Italia Corporate Headquarters, Cagliari, Sardegna, Italy

Telecommunications Leader Modernizes Campus Irrigation with Intelligent Rain Bird® Technology

Tiscali Italia S.p.A is a leader in Italy's telecommunications sector, providing ultrabroadband access through fixed wireless access technologies and fiber to the home. Approximately 1,000 employees work out of the corporate campus, which features expansive lawns, olive trees, and other greenery.

The Challenge

This expansive 4.5 hectare campus requires robust and reliable irrigation. Tiscali Italia would like to upgrade their conventional 2-Wire system to intelligent 2-Wire Rain Bird technology that can provide greater control and added efficiency. Technology is important to this forward-thinking company and Tiscali hopes to streamline maintenance with cutting-edge remote management and smart system diagnostics.

The Solution

Gian Carmine Casu of **Scarabelli Irrigazione** and contractor "I Tre Solchi" installed innovative Rain Bird components to provide precise irrigation for the large campus while enhancing visibility into flows and system performance. An upgraded controller and intelligent control software will enable convenient remote management from a mobile phone or tablet. As an added bonus, proprietary Rain Bird valve technology with integrated decoders will speed up and secure electrical installation with 50% fewer wire splices.

Key objectives

- ✓ Irrigate a large area
- ✓ Eliminate decoders
- ✓ Enable remote management
- ✓ Improve maintenance efficiency

ESP-LXIVM 2-Wire Controller
with Smart Valve Technology



Products used

- [1804 PRS-SAM Spray Heads](#)
- [5000+ Series Rotors](#)
- [PGA-IVM Series Valves](#)
- [ESP-LXIVM 2-Wire Controller with Smart Valve Technology](#)
- [IQ™ Central Control](#)
- [IQ Ethernet Cartridge](#)
- [Pulse Flow Meter](#)

Approach

Upgrade to a Robust, Modern System

To adequately water such a large campus, the new system will need to include 40 stations and hundreds of **5004 Series Rotors** and **1804 PRS-SAM Spray Heads** with pressure regulating systems. I Tre Solchi also replaced decoder and traditional 24V solenoids with **IVM solenoids** featuring integrated decoders to enable two-way communication with the new **ESP-LXIVM 2-Wire Controller**. Tiscali's facilities team will be able to control the entire system from a web-enabled device thanks to the system's IQ4 Cloud software with ethernet connection.

Enable Intelligent Management

A number of innovative technologies will enable advanced system diagnostics, simplified management, and proactive maintenance. A **Pulse Flow Meter** installed on the primary water source will communicate flow rate data back to the controller. FlowWatch™ will monitor flows and send alerts for any high or low flow issues. FloManager™ will manage hydraulic demand and make full use of available water, turning on as many stations as possible without exceeding water supply and reducing the total time to complete irrigation cycles. The system's SimulStations™ feature will run multiple stations at once according to FloManager instructions.



Results

Streamlined Management and Maintenance

Manual irrigation control is a thing of the past for Tiscali Italia's facility managers thanks to the **IQ Central Control Software** and **IVM technology**. The crew especially appreciates the SimulStations feature, which helps them water the large campus in less time. The flow monitoring and system diagnostics, both hydraulic and electrical, greatly simplify management and maintenance. As an added bonus, the IVM technology required 50% fewer wire splices, which meant the installation and rewiring could be completed in less than 10 days.

