

■ Success Story

Customer: Tecnoparco

Industry: Energy/Utilities

Location: Valbasento (Matera)

An environmentally conscious utility and service provider upgrades its network infrastructure with Allied Telesis switches, enhancing reliability for both facilities and services.

Since 1990, Tecnoparco Valbasento has been a leader in the energy and environmental sectors, specializing in the design, construction, and management of technological infrastructures. It produces and distributes essential utilities for industrial areas, science and technology parks, and manufacturing companies.

Committed to environmental compatibility and economic competitiveness, Tecnoparco adheres to the highest quality standards, positioning itself as a reliable partner for the growth of businesses and industrial activities.

Its facilities produce and distribute electricity—primarily from renewable sources—along with thermal energy, technical gases, and industrial water. Additionally, it operates advanced chemical-physical and biological treatment plants for wastewater and waste management.

Dedicated to production excellence and sustainability, Tecnoparco has embarked on a significant initiative to upgrade its network infrastructure. This project ensures the delivery and control of its services through a resilient network, supporting its diverse and critical operations.

Project objectives

Tecnoparco's network infrastructure spans an impressive 338,316 square meters, providing comprehensive connectivity to a diverse range of facilities with varying requirements.

The facilities are interconnected via fiber cabling, linking the company's Data Center (CED) to indoor and outdoor operations, offices, warehouses, and service areas.

The primary goal of the network upgrade was to enhance reliability by introducing resilience across all connections, both within individual facilities and along the main network ring.

“ At Allied Telesis, we've found a trusted partner that delivers network reliability through commercial and industrial products designed to perform in any environment.

Giacomo Faccia

IT manager, Tecnoparco

A key challenge of this implementation was accommodating environments with drastically different temperature controls, ranging from temperature-regulated areas to uncontrolled settings where standard commercial equipment could not be deployed. Additionally, the network had to maintain a high degree of reliability and seamless interoperability, regardless of the type of equipment used across these varied environments.

The solution

In order to support facilities where equipment was in an uncontrolled temperature environment, and particularly in the newly renovated osmosis, it was decided to use industrial-grade switches installed on DIN rails in dedicated cabinets.



About Allied Telesis

For over 35 years, Allied Telesis has been delivering reliable, intelligent connectivity for everything from enterprise organizations to complex, critical infrastructure projects around the globe.

In a world moving toward Smart Cities and the Internet of Things, networks must evolve rapidly to meet new challenges. Allied Telesis smart technologies, such as Allied Telesis Autonomous Management Framework™ Plus (AMF Plus) and Enterprise SDN, ensure that network evolution can keep pace, and deliver efficient and secure solutions for people, organizations, and “things”—both now and into the future.

Allied Telesis is recognized for innovating the way in which services and applications are delivered and managed, resulting in increased value and lower operating costs.

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To achieve the reliability goals set, network resilience was increased by using resilience in the main ring, duplicating links to the most critical areas, and adding by creating switch stacks to increase resilience.

The equipment

Tecnoparco’s network infrastructure already install a set of x510-series equipment that has been reused and placed within the updated network.

The network core is distributed along the ring and served by x930 and x530 Series equipment while in the various facilities and services stacks of both x530 and x510 Series switches connect the utilities.

For the osmosis plant, industrial switches of the IE340 family were used, which allow installation in operating environments with extreme temperatures, from -40° to +75°.

VCStack technology give resilience to critical installations by duplicating the link to the network core.

Results and future developments

The implementation has greatly improved the infrastructure reliability by ensuring resilience to all critical services and enabling control of the new osmosis plant, this changes improved the level of service provided to all partners.

In the future, further work will be done on reliability by implementing better performing ring resilience protocols and on automation by introducing the **VistaManger** management and monitoring platform and the **AMF Plus Cloud** automation framework. These solutions will simplify operations by automating functionality and decreasing overall management costs.

Related products



x930 Series



x530 Series



IE340 Series