

Case Study

Energy: Power Distribution



Customer

Empresas Publicas de Medellin
www.epm.com.co

Partner

Facelco S.A.S.
www.facelco.com.co

Location

Colombia

Challenges

- > Distributed network infrastructure
- > Ability to monitor legacy equipment
- > Remotely connect to multiple devices

Products

Industrial Networking
Sixnet IndustrialPro® cellular routers

Industrial Automation
Sixnet Mini-VersaTRAK® mIPm RTUs

Results

- > Protect legacy network investment
- > Improve control and maximize availability
- > Lower total cost of ownership
- > Eliminate expensive truck rolls to remote locations

“The primary benefit for EPM was implementing a solution that would extend the life of its existing recloser network. This remote connectivity solution allowed them to extend the life of existing legacy equipment, which can last 15-20 years, as well as increase control of the network. By working with Red Lion and Facelco, EPM was able to cost-effectively improve network control, maximize availability and protect its network investment.”

- Alejandro Arango, Facelco

Project Scope

Empresas Publicas de Medellin (EPM), a leading multi-utility and telco company focusing on power generation, transmission and distribution, natural gas distribution, wastewater treatment, aqueducts and telecommunications, was looking for a flexible solution to monitor and interact with legacy equipment across its distributed network infrastructure.

Solution

EPM turned to Red Lion and Facelco to enable remote connectivity capabilities for its power distribution infrastructure of reclosers. By using a remote connectivity solution that combines Red Lion's Sixnet series industrial RTUs and cellular routers with a network analyzer from Facelco, EPM can seamlessly connect, monitor and control its existing recloser network. This upgrade enables EPM to lower overall total cost of ownership by extending the life of its infrastructure and preserving CAPEX expenditures for other projects.

The remote connectivity solution includes Red Lion IndustrialPro cellular routers that deliver wireless DNP-3 connectivity to RTUs that act as a controller. This deployment enables EPM to remotely connect and communicate with its power distribution system. In addition, Facelco network analyzers provide real-time diagnostics that allow EPM to proactively respond to conditions to ensure system integrity and network uptime.

Benefits

The combined Red Lion/Facelco industrial-grade remote connectivity solution provides monitoring and control throughout EPM's power distribution network, helping to save time and reduce costs. Power substations and electric, gas and water utilities like EPM require high-speed, high-capacity networks that enable real-time access to critical information regardless of location. Red Lion's industrial automation and networking solutions improve productivity and reliability by providing customers the ability to seamlessly connect, monitor and control operations.

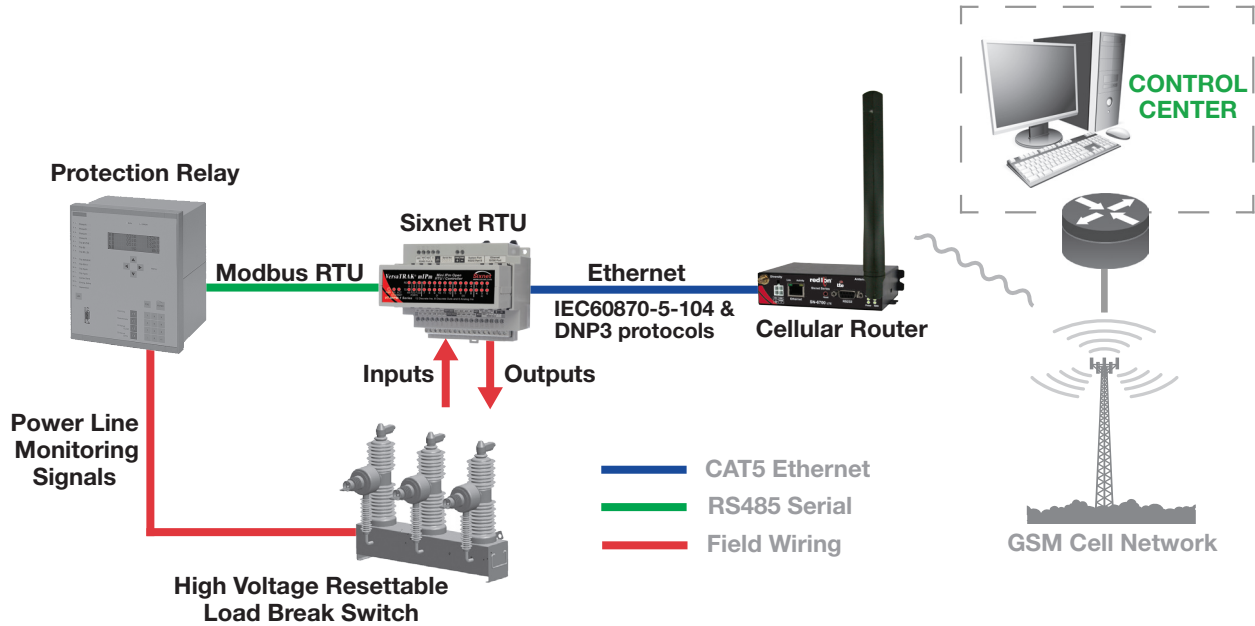
industrial
networking

industrial
automation

Products

Model	Description
SN-6801	IndustrialPro 6000 cellular routers
VT-MIPM-245-D	Mini-VersaTRAK mIPm RTUs

Network Diagram



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Connect. Monitor. Control.

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As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our award-winning technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. For more information, please visit www.redlion.net. Red Lion is a Spectris company.