



PROJECT HIGHLIGHT

FirstEnergy Modernizes Its System Through Custom RTU Panel Project

Challenge

As part of its EnergizeNJ grid upgrade project, FirstEnergy chose SEL to build custom remote terminal unit (RTU) panels equipped for SCADA communications. But the compressed timeline presented a challenge—FirstEnergy would need additional resources to complete the drawings for the RTUs. The utility turned to SEL for support and expertise—from design to implementation.

Solution

FirstEnergy has been an SEL customer for decades. “FirstEnergy always uses SEL,” said Anthony Ricci, FirstEnergy supervisor for equipment and standards. “Everything is [SEL] blue in our company.”

Teams from SEL Engineering Services and SEL Panels quickly established a timeline to formalize drawings. SEL provided a comprehensive range of services to deliver the custom RTUs on schedule.

The new RTU panels incorporate SEL devices to support SCADA communications, fulfilling the EnergizeNJ commitment to grid modernization.

Results

The decision by FirstEnergy to collaborate with SEL kept the project on track. The custom RTU panels meet safety and security standards by using SEL devices to enhance SCADA communications. The solution deploys remote monitoring to protect critical systems and mitigate cyber threats and outages.

SEL helped FirstEnergy to meet the requirements of the modernization project for the northern and central New Jersey grid within the compressed timeline. The experience strengthened the working relationship between FirstEnergy and SEL.



[Learn more.](#)

About SEL

SEL was founded in 1982 with the invention of the digital protective relay. Today, SEL is a 100 percent employee-owned company that specializes in creating digital products and solutions that monitor, protect, control, automate, and secure power systems and other critical infrastructure around the world. SEL is headquartered in Pullman, Washington, and serves customers in more than 170 countries.

World-Class Manufacturing

At SEL, we design and manufacture our electronic devices, including circuit boards, in factories we own and operate in the United States. Additionally, we assemble custom panels in our factories in the United States, Mexico, Colombia, and Brazil. Our robust manufacturing infrastructure prioritizes vertical integration, streamlined processes, and supply chain risk management to ensure the quality, reliability, and availability of our products.

Cybersecurity Philosophy

SEL believes the safety of your system and availability of devices come first, which is why we have prioritized cybersecurity since our founding. Our earliest devices featured two levels of password-protected access, and today, we secure our operations and products with layered defenses. We practice our cybersecurity philosophy throughout our business, from product development and manufacturing to our engineering and cyber services departments.

Proven Reliability

For more than forty years, electric utilities, heavy industries, and critical infrastructure around the world have trusted SEL solutions to keep their essential systems and processes running. These solutions are built on the capabilities of our rugged devices, which endure temperature ranges as wide as -40° to $+85^{\circ}\text{C}$ (-40° to $+185^{\circ}\text{F}$) and meet or exceed industry standards for resistance to humidity, corrosion, shock, electric stress, electromagnetic interference, and other harsh operating conditions.

Industry-Leading Warranty

SEL devices are designed for a robust working life. We back our products with a worldwide, ten-year warranty. If a product fails under warranty, we'll repair or replace it at no cost.

Local Support, Global Expertise

Technical support is available at no cost for the entire service life of every SEL product. With application engineers located around the world, we provide expert support no matter where you are.

Contact Us

Whether it's finding the right devices to protect, automate, or optimize your systems or designing a custom turnkey solution, we will work with you to find the best way to achieve your objectives.



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