# Cyber Security

EnerNex is an electric power research, engineering and consulting firm specializing in providing solutions for challenges in the electric power industry through research, engineering, and cyber security using advanced methodologies and technologies.

Our Smart Grid Labs (SGL) has a core infrastructure that supports end-to-end application testing from distribution feeder equipment to the substation to utility control centers and enterprise systems, to field area communication networks to meters and gateways to building automation networks and home area networks, to smart devices and appliances. We evaluate technology to mitigate business and technology risks in general.

The EnerNex cyber security team possesses the capability and skills to assist our clients throughout their security lifecycle. These areas include the following:

- SECURITY ARCHITECTURE AND DESIGN: EnerNex can actively assist in the development of technical security controls, business processes, and device configuration as clients build out new technologies and systems.

- PRODUCT & SYSTEM SECURITY: EnerNex team members have experience in product testing and analysis, which includes protocol analysis, network and hardware penetration testing, working with vendors on emerging products, and end-to-end systems analysis.

- THREAT MANAGEMENT: EnerNex can assist in the design, development, and implementation of a real-time threat management and monitoring system. Additionally, team members have backgrounds in vulnerability assessment, incident response, incident preparation, security research, and forensic analysis.

- RISK-BASED THREAT ASSESSMENT: EnerNex consultants actively participate in standards and regulatory compliance groups in order to provide our clients with security solution that will meet and exceed industry expectations. Examples of our participation include UCA International Users Group, IEC 61850, DNP3, National Electric Sector Cyber Security Organization Resource (NESCOR), and the NERC CIP standards drafting team.

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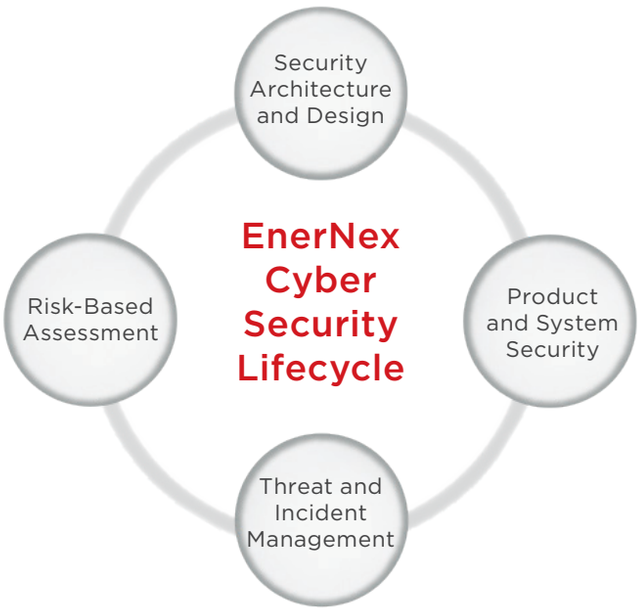
The Guide to Industrial Control Systems (ICS) Security in NIST 800-82 influences EnerNex's assessment capabilities. However, EnerNex utilizes penetration-testing methodologies identified in NIST 800-115 Technical Guide to Information Security Testing and Assessment and the Open Source Security Testing Methodology Manual. EnerNex's layered approach provides a scientific methodology to accurately characterize operational security through examination and correlation of test results in a consistent and reliable way. Our security assessment considers the following approach to the organization's communications infrastructure that includes the enterprise, perimeter, network and host, application, and data layers. Additionally, physical security, social engineering and wireless communications are also considered within the layers.

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