



## Market Brief

# Security consulting for energy

As technology becomes increasingly sophisticated and embedded into every aspect of our life and work, so does the variety and magnitude of security threats. This is particularly evident within the energy and utility industries, where the addition of smart grid devices and integration of monitoring, control, and business systems are driving cyber security concerns.

To counter today's cyber threats, it's important for security departments to create flexible, interconnected processes that are able to recognize and respond to on-going attacks from evolving threats with limited resources. The successful development, implementation, and management of a cyber security program will require collaboration amongst various functions and disciplines across the organization that include technical management, enterprise and operational risk, performance measurement, organizational alignment, program management solutions, and strategic planning.

### Protecting Critical Infrastructure

Electric utilities are under constant threat from cyber and a myriad of other forces. Because of this, utilities are required to meet continuously evolving cyber security requirements as documented in the Critical Infrastructure Protection (CIP) regulations by the Federal Energy Regulatory Commission (FERC) and managed through the North American Electric Reliability Corporation (NERC).

The electric grid is the most revenue intensive infrastructure in North America. The DOE considers it a national critical infrastructure.

- According to NERC, utilities can be fined \$1 million per non-compliance incident, per day, retroactive to the initial occurrence.
- According to the 2014 breach study by Ponemon Institute, the per capita cost of a breach in the energy vertical is at \$141.\*

### Delivering Combined Energy and Security Experience

In recognizing the need for enhanced cyber security to help better secure our nations' grid, AT&T and Smart Utility Systems (SUS) have combined our knowledge of security and the energy industry to create services that provide a holistic approach to cyber security.

- As trusted advisors, we assist with executive-level information gathering and pragmatic counsel.
- We work with our clients to identify emerging risks, measure the impact of those risks, and develop plans to mitigate those risks in the context of their business.
- We demonstrate a thorough understanding of the business, the technology environment, and the client's security posture to determine the best approach for adoption of the NERC CIP framework.
- We have the ability to deliver and manage large scale programs across complex organizations which experience varying degrees of cyber risk.

### Features

#### Information Assurance

- Provide Strategic Information Risk Management
- Defense against Viruses
- Defense against Hackers
- Safeguard the Confidentiality, Integrity, and the Availability (CIA) of information

#### Critical Infrastructure Protection

- Advanced Metering Infrastructure AMI Penetration Testing & Assessment
- Scanning of Potential Attack Vectors
- Assess Security Information Event Management Tools
- Social Engineering & Physical Testing
- Backhaul, Control Center, Substation, and Mobile Field Device Assessments

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**Utility Focused**

- SCADA Systems/Field Assets
- Smart Metering/Smart Grid
- Power Production/Generation Transmission/Distribution
- Home Area Network (HAN)/Cell Rely/Backhaul
- Network Management Systems (NMS) and Meter Data Management Systems NMS and MDMS

AT&T offers a comprehensive portfolio of services designed to address the potential threats and vulnerabilities that you are facing today. Our services and solutions can help you secure all aspects of your information technology infrastructure, including control systems, critical assets, data, applications, networks, and end points. By proactively managing security at the enterprise level, you will be able to improve the efficiency of organizational security solutions, reduce costs, and enable secure access to critical information assets.

**Key Benefits**

- Gain an end-to-end view of security vulnerabilities
- Strengthen defenses against cyber attacks, both internal and external
- Improve business flow, productivity and profitability
- Mitigate financial exposure from security breaches
- Help simplify security compliance

**Count on Security Consulting from AT&T**

AT&T has a long history of developing and managing security services that support a defense-in-depth architecture to help with your security policies. AT&T security consultants have experience handling large, complex infrastructure solution deployments. We follow industry best practices and a standardized methodology to help reduce risks and speed deployment of your end-to-end security solution.

Security Areas of Need	Service Details
Department of Energy (DOE) Compliance Assessment	NERC CIP, NIST, IR, ISO/IEC 27002
Standardized framework implementation	Framework for Improving Critical Infrastructure Cybersecurity Assess and provide a roadmap to adopt and implement the NIST Cybersecurity Framework
Security Posture Assessment	Assess People, Processes, and Technology
Remediation Assistance	End-to-end Vulnerabilities and Exposures are analyzed and Risks are documented into an Assessment that details our Recommended Roadmaps for Mitigation
Counter Measure Strategy	Secure Architecture Design and Implementation of Firewalls, IDS/IPS, Security Information Event Management (SIEM) Systems, Antivirus, Configuration Management Data Bases (CMDB) and Patch Management Systems
Incident Management Strategy	Building Computer Emergency Response Teams (CERT) and Computer Security Incident Response Teams (CSIRT)

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\*Ponemon Institute, 2014 Cost of Data Breach Study: Global Analysis, sponsored by IBM.

