Connecting the Intelligent Energy Network

Enel X is one of the largest providers of energy intelligence software and services that empower business consumers to play an important role in the operation of the electric grid by reducing or shifting their electricity usage during peak periods in response to time-based rates or other forms of financial incentives.

Challenges

Enel X aggregates demand and energy supply, almost like a virtual power station, by brokering the demand/supply response between providers (utilities) and consumers (businesses) in real-time.

Enel X leverages Akamai SPS Secure IoT to provide the mission-critical secure and private network connectivity capable of securely scaling connections between the thousands of industrial automation platforms, the telecoms' network and Enel X's cloud-hosted energy intelligence platform. Enel X needed to aggregate data of energy demand and supply, while interconnecting building automation and management platforms to the cloud.

Solution Deployed

Enel X leverages Akamai SPS Secure IoT to securely scale energy demand response services across thousands of industrial sites in Europe. Akamai SPS Secure IoT delivered scalable private networks, with the ease of adding new data feeds.

Akamai SPS Secure IoT's network layer security policies permit only Enel X–designated traffic flows in the private network.

The secure bidirectional connectivity of Akamai SPS Secure IoT provided support for IT and OT maintenance and management of systems over the lifecycle of a deployment.

Enel X
www.enelx.com

INDUSTRY
Energy

BENEFITS

- **Productivity:** Outsourcing of network layer management to Akamai enables valuable engineering resources to focus on delivering core value-added services to customers

- **Secure Cloud:** Secure data feeds to and from the cloud are an important pillar of leveraging a distributed cloud-hosted environment to deliver fast, elastic services to energy consumers and providers

- **Process Continuity:** Secure bidirectional connectivity is vital to the ongoing maintenance and management of services, assuring business process continuity and service delivery

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Akamai SPS Secure IoT provides an isolated network off the public internet, which gave us the confidence to connect our customers energy data to our cloud energy platform.

– Robert McGarry, Senior Technology Manager, Enel X

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Results

Enel X chose Akamai SPS Secure IoT because it offered the following features:

Secure Network
From day one, the secure and seamless interconnect of the IT and OT systems made for the simplified adoption and roll out of the service to Enel X's customers.

Managed as a Service
Enel X's engineering teams remain focused on delivering business value to energy management service, instead of learning how to manage secure networking.

Facilitates Remote Access Management
Lower total cost of ownership by facilitating over-the-air updates and minimizing the number of on-site visits for software maintenance.

Akamai makes secure connectivity simple for any size of mobility or IoT deployment in a hyperconnected world.

> " Akamai provides the critical interface to the network and the industrial automation systems for our energy demand response services.

Robert McGarry
Senior Technology Manager, Enel X

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Enel X partners with enterprises to reduce costs, manage risks, increase sustainability, and maximize the value of emerging energy technologies through customized energy management strategies. Enel X is the global leader in demandside flexibility services, providing large energy users access to more demand response and demand management programs worldwide than any other provider. In addition to its flexibility solutions, Enel X's technology-enabled advisory solutions help large energy users create value through strategic energy procurement, energy management, and utility bill management software and services.
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