Energy and Utilities Solutions

Energizing Utilities with ngenious grid.connect Solution

Challenge

In the Energy & Utilities sector, organizations often grapple with the complexities of interconnecting dispersed assets and ensuring reliable, secure, and cost-effective network connectivity. Key challenges include:

Distributed Infrastructure

Utilities typically manage a widespread network of power generation plants, substations, and remote sites. Ensuring seamless connectivity among these sites is essential for efficient operations.

Critical Data Transmission

Timely data transmission is crucial for grid monitoring, asset management, and maintenance, making network reliability a top priority.

Data Security and Compliance

Utilities handle sensitive data related to grid operations and customer information. Meeting regulatory compliance, such as NERC CIP, is paramount.

Emergency Response and Resilience

Utilities need the ability to respond swiftly to outages and emergencies, necessitating robust network infrastructure that can withstand disasters and outages.

Solution: ngenious grid.connect

To address these challenges, ngenious offers the grid.connect SD-WAN solution, designed to provide the following key features:

Global Network Connectivity: grid.connect leverages ngenious fast, orchestrated and automated platform to establish a resilient, scalable and secure gridwide network, connecting power generation sites, substations, and remote assets seamlessly.

Data Transmission Optimization: The solution ensures rapid and reliable data transmission for grid monitoring, asset management, and outage response, improving operational efficiency.

Security and Compliance: grid.connect includes advanced security measures to protect sensitive data and ensure compliance with industry-specific regulations and standards.

Emergency Response and Resilience: The solution ensures network continuity during emergencies or outages, allowing utilities to respond swiftly and minimize downtime.

Cost-Efficient Scalability: grid.connect intelligently routes traffic and optimizes network paths, reducing network costs and ensuring scalability as utilities expand their infrastructure.

Results

Implementing grid.connect enables several positive outcomes for utilities in the Energy & Utilities sector:

- ☑ Enhanced connectivity among dispersed assets improves grid monitoring, asset management, and maintenance, ultimately leading to increased operational efficiency.
- ☑ Improved security and compliance measures boost customer trust, protected critical infrastructure, and ensures regulatory compliance.
- ☑ The resilience of the network during emergencies minimizes downtime, enables swift responses to outages, and improves overall grid reliability.
- ☑ Cost-efficiency allows utilities to allocate resources more strategically and support growth.

Success Stories

A public utilities company, based in LATAM, with 11 offices and a Data Center relies on ngenious solution for the resilience of their network.

Challenges

- Renew of a dual MPLS clouds from different providers network bid
- Load-balance and automatic failover on the WAN connectivity

Solution

- Secure Meraki SD-WAN across all sites, using MPLS as underlay from 2 different providers
- 36-month contract
- 24/7 NOC, delivering automation and flexible operating model
- Turnkey solution augmented with pre-staging services and local onsite resources

Results

- A unified and robust Meraki SD-WAN network using dual MPLS cloud from different providers as underlay
- Supported by a global NOC
- Compliance with all SLAs

Conclusion

The success story of deploying ngenious grid.connect addresses the unique challenges in the Energy & Utilities sector. This specialized SD-WAN solution equips utilities with the tools to efficiently manage their dispersed infrastructure, enhance grid monitoring, and ensure network security and resilience. grid.connect empowers utilities to deliver reliable, secure, and cost-effective services, ultimately contributing to a more resilient and sustainable energy grid.

The solution presented is based on a typical industry case and may require adjustments to its architecture to meet specific requirements identified during analysis.

Are you interested in this solution?

Contact us

to request a quote or design together your custom solution!