

CASE STUDY

Securely scale energy digital infrastructure connections

Eurotech gateways and Intertrust XPN deliver zero-trust for VPPs and distributed energy.

**SOLUTION**

Intertrust XPN + ReliaGATE

INDUSTRY

Energy and utilities

USE CASE

Virtual power plant security

Cloud-to-edge security for virtual power plants

Energy providers securing virtual power plants are deploying Eurotech ReliaGATE gateways with Intertrust XPN.

The joint solution delivers zero-trust architecture, end-to-end encryption, and scalable key management across distributed assets ranging from hundreds to millions of devices.

Key challenges

Fragmented point products cannot secure millions of distributed edge devices across virtual power plants. Traditional perimeter controls leave data-centric grid operations exposed.

Key outcomes

A unified trust fabric secures millions of distributed devices, avoids \$4 million per breach through faster containment, and simplifies compliance with built-in audit trails.

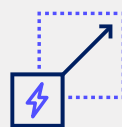
Unified fabric

Replaces fragmented security across device-to-cloud.



Massive scale

Secure identity for millions of devices.



Breach avoidance

\$4 million saved per avoided breach.

*IBM's Cost of a Data Breach Report



“Our joint solution secures and scales AI-driven energy management.”

Robert Andres,
Head of Partner Ecosystem,
Eurotech



The challenge

Point tools cannot scale trust across energy grids.

Point tools cannot scale trust across energy grids

Virtual power plants aggregate thousands of distributed energy assets.

Perimeter gaps

Conventional VPN and TLS secure channels, not data, leaving telemetry vulnerable to tampering.

Fragmented tooling

Multiple point products protect devices, networks, and data separately, creating gaps attackers exploit.

Multi-vendor complexity

Diverse protocols and asset providers make secure onboarding difficult across energy deployments.

The solution

XPN on ReliaGATE delivers cloud-to-edge zero-trust security.

The joint solution runs Intertrust XPN on Eurotech ReliaGATE gateways. XPN provides explicit trust verification, end-to-end encryption, and scalable key management. Eurotech hardware and software stack meets IEC 62443-4-2 requirements and supports container management, zero-touch provisioning, and OT protocol connectors.

The approach works alongside existing VPN and TLS infrastructure rather than replacing it. Intertrust contributes the trust fabric and TEIA-aligned interoperability model; Eurotech contributes edge computing, lifecycle management, and field protocol support across energy and utilities.

The results

A unified trust fabric that protects, scales, and proves compliance.

By shifting security to data and devices, utilities address fragmentation, scale, and exposure in one deployment while preserving existing systems.

Secure VPP infrastructure at scale

Utilities deploy trusted, analytics-ready data streams, with seamless integration for AI-ready operations and control across VPPs.

Breach cost avoidance

The unified trust fabric shrinks attack scope, reduces lateral movement, and lowers incident costs, saving an estimated \$4 million per avoided breach.

Compliance and efficiency

Advanced logging, immutable audit trails, and continuous monitoring reduce compliance risk, fines, and remediation costs from day one.



Building trust for a
connected world.

Learn more at: intertrust.com/energy

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