ENERGY & UTILITIES

Energy & Utilities Security Assessment

OT and product security testing for electricity, gas, oil and water operators and for makers of smart meters, inverters and EV chargers — with post-quantum readiness and AI security, and operational safety first.

Passive
ON LIVE NETWORKS

Fleet-scale
RISK-RATED

CycloneDX
CBOM & ML-BOM OUTPUT

Senior
PRACTITIONER-LED

What we assess

AI security

Load forecasting, grid optimisation, outage response, customer service, and agents with a path to operator actions.

Post-quantum readiness

Meter fleets, device identity and firmware signing, grid protocols, and the VPNs and PKI that connect them.

Operations & product testing

IT/OT boundary, remote access, control-centre and substation networks — and meters, inverters, chargers and their clouds.

What you get

- ✓ Asset reconciliation against your inventory and drawings
- ✓ Findings rated on consequence and aggregate fleet impact
- ✓ Vendor-cloud control paths tested for fleet-wide compromise
- ✓ A roadmap split three ways: now, next outage, refresh
- ✓ Product security evidence for grid-edge equipment makers
- ✓ CBOM and AI-BOM in CycloneDX format
- ✓ Separate briefings for engineering and for leadership

How it works

1. Agree the safety gate, exclusions and stop authority with operations
2. Review architecture; build the consequence register
3. Discover passively; test actively only in a lab, on spares, or in an outage
4. Report by consequence and fleet impact, then brief both audiences

A good fit if

- ✓ You report to NERC CIP, the EU electricity network code, NIS or a national energy regulator.
- ✓ Vendors and integrators have remote access into your operational networks.
- ✓ You make meters, inverters, batteries or chargers that are controlled from a cloud.
- ✓ You are planning a meter or device rollout that will outlast today’s cryptography.

Probably not, if

- ✗ You want safety systems actively tested — we never do it.
- ✗ You want a conventional vulnerability scan of live operational networks.
- ✗ Operations will not be part of the engagement — their sign-off is a condition.

How we engage

Fixed scope
A fixed-scope proposal at a fixed price. No hourly meter running.

Senior-led
The practitioner who scopes the work does the work and writes the report.

Plain language
One report your engineers and your board can both act on.

Safety first
Safety systems out of bounds, passive by default, operations can stop the test.

Security that locks down risk, not your business. · © 2026 verrou