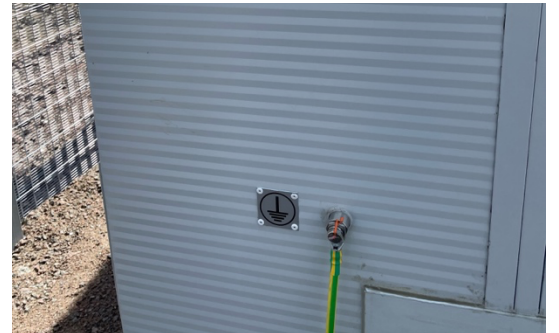


Steel Framed Control Room – Energy Infrastructure



Project Location

Finland

Project Completion

2026

Overview

Modular substation building delivered in Finland, integrating a control and metering room within a compact two-room configuration.

The Solution

- Steel-framed modular unit with insulated double-skin construction
- EI90-rated internal separation between control and metering rooms
- Elevated structure enabling bottom cable entry via basement void
- Integrated pressure relief system for fault conditions



The Challenge

- Engineered for cold Nordic climates, supporting performance in sub-zero conditions and seasonal temperature variation
- High-performance insulated envelope designed to achieve low U-values in line with project thermal requirements
- Sealed construction reducing moisture ingress, condensation risk, and air leakage
- Corrosion protection to EN ISO 12944 C4-H for exposed environments
- Factory-controlled manufacture ensuring consistent quality and repeatability
- Integrated cable management and HVAC systems to maintain stable internal conditions year-round

The Solution

A compact, fully offsite-manufactured solution delivering:

- 9M x 4M x 4.2M Module weighing 15T transported from Ireland to Finland
- Reduced on-site installation and programme risk
- High-quality, repeatable build standard
- Reliable operation in a harsh Nordic environment

A robust modular solution engineered in Ireland and tailored for Northern European conditions, combining thermal performance, durability, and programme certainty through an offsite-led approach.



**Design.
Manufacture.
Deliver.**

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