

COMPANY PROFILE

Smart Metering Grid Edge Monitoring

Grid-Edge Sensing | Embedded AI | Advanced Smart Metering

Expertise

50+ years of collective expertise in high-frequency monitoring, control systems, and power electronics. Dedicated to solving the complex challenges of the evolving energy landscape.

Technology

Merging ultra-high-resolution power quality tracking with embedded AI grid-edge computing. Turning traditional data collection into actionable business intelligence.

Impact

Equipping DSOs, DNOs, and utilities with tools to optimize capital expenditure, integrate Distributed Energy Resources (DERs), and build a more resilient, efficient energy future.

OUR DUAL FOCUS: METERING & THE GRID EDGE

As energy transitions drive the rapid uptake of solar PV, battery storage, and electric vehicles (EVs), real-time network management at low voltages is essential to avert grid instability. Nexbe's hardware and software ecosystem bridges the gap between revenue metering and deep grid-edge visibility.



Smart metering

Revenue metering and grid-edge intelligence at the meter



Grid-edge monitoring

Power quality and real-time fault detection from transformer to feeder



NEW

Smart relay controller

DIN-rail IoT load control for EV charging and hot water.

01 Smart metering, AMI 2.0

Nexbe's smart metering solutions operate as more than just measurement devices—they act as grid-edge computers and central communication hubs for homes and businesses. Our flagship NV33 polyphase Revenue Meter provides an all-in-one approach to revenue metering, IoT control, and power analytics.

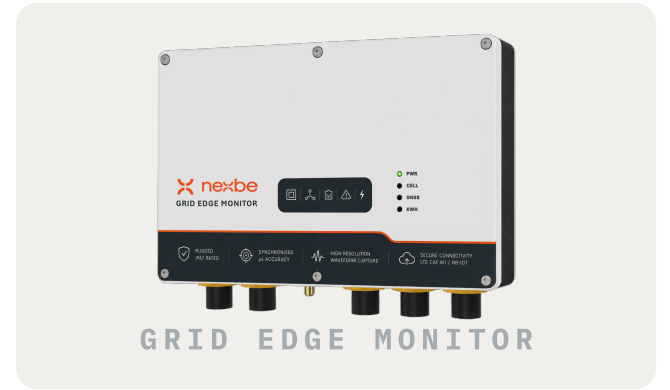
Featuring in-built 100A relays, it enables real-time edge processing to manage EV charging and solar export at the source, API-driven load control to incentivize the optimization of power-hungry assets (hot water, EVs), and future-proofed architecture for circuit-level submetering and smart home integration.



NV33 AND NV30CT

02 Advanced grid-edge monitoring & power quality

To help operators understand how the grid functions in real-time, Nexbe offers continuous fault monitoring and low-voltage (LV) network visibility platforms that capture supply quality parameters from the transformer to the customer.



RaptorVision™ PQ

A breakthrough IoT solution designed for rapid grid-edge deployment. It measures voltage and current simultaneously at 16-bit resolution and MHz sampling rates—an order of magnitude improvement over standard smart meters.



Embedded AI Fault Analysis

Learns localised grid steady-state conditions. It then predicts and detects hidden issues such as partial discharge, arcing events, and broken neutrals, escalating only high-confidence abnormalities.



LV Visibility

Purpose-built for robust LV network infrastructure and transformer monitoring, serving as highly valuable sensing tools for Quality of Service (QoS) tracking.

03 Smart relay controller, NR40

The NR40 dual-channel IoT smart relay controller delivers software-controlled flexibility for hot water cylinders and EV chargers, offering direct appliance control for network operators (DNDs), retailers, and aggregators.



WHY PARTNER WITH NEXBE?

Actionable Intelligence

We provide exception reporting for faults rather than flooding operators with raw, unusable data.

Grid Modernization

Safely and efficiently integrate high-demand DERs (like solar and EVs) without sacrificing network stability.

Cost Optimization

Target infrastructure upgrades intelligently by utilizing accurate grid-edge insights.

Seamless Integration

Fully compliant hardware (including IEC & UL approvals) engineered to function seamlessly across global landscapes.

Revenue-Grade Data

Nexbe is an approved Metering Equipment Provider (MEP) to the NZ Electricity industry.

CHRISTCHURCH, NEW ZEALAND

Talk to us about a grid-edge deployment

For further information, please email us at sales@nexbe.nz