

Smart Meter intelligence

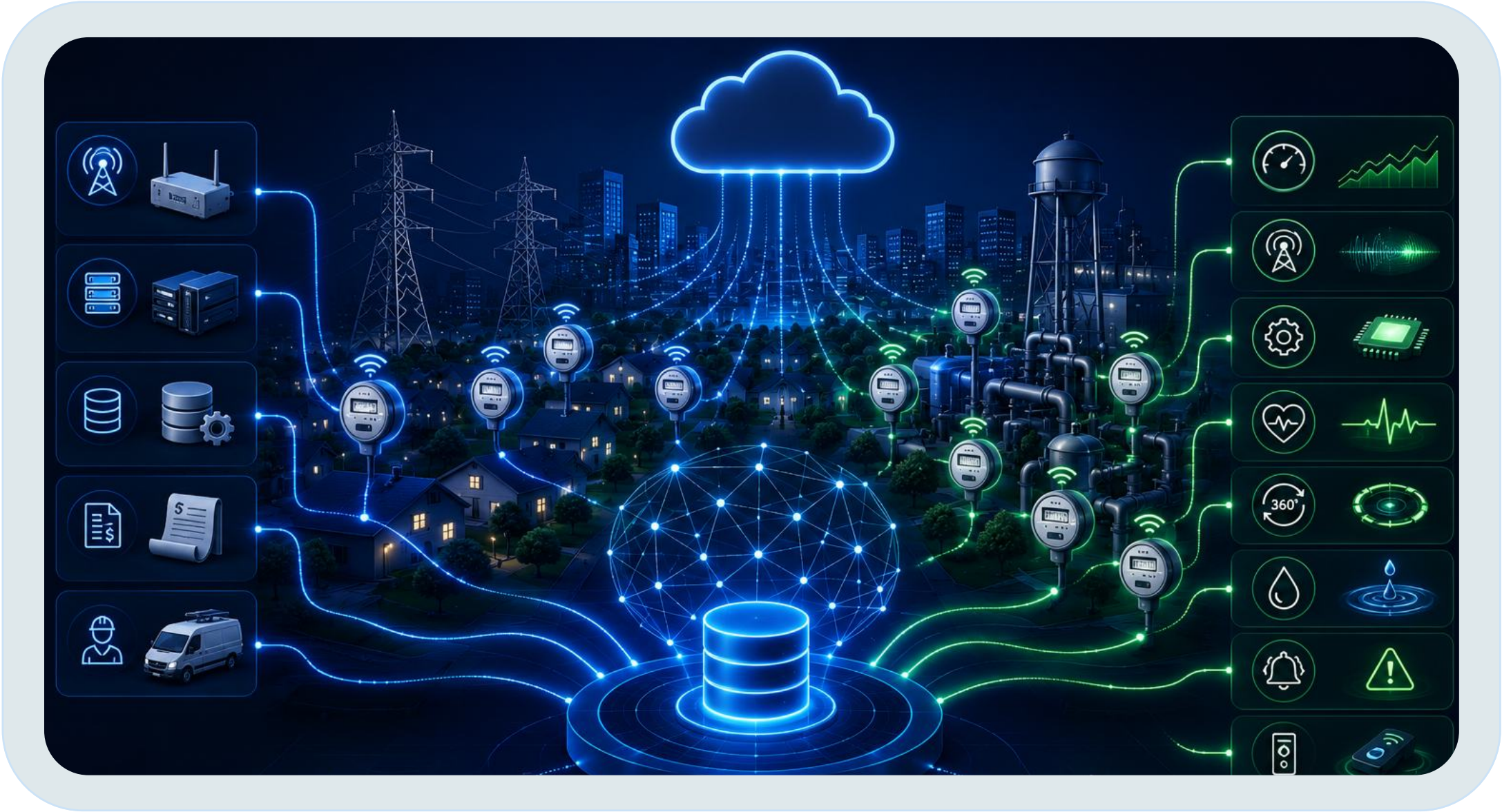
AI-Powered Smart Meter Intelligence for Modern Utilities

Millions of smart meters now form the sensory edge of the utility network. Every read underpins a bill, while a meter that falls silent conceals revenue and an unnoticed anomaly becomes an estimated bill, a coverage blackspot, or a genuine AMI risk. A fleet of this scale delivers value only when it is continuously watched, understood and acted upon.

Impresa Smart Meter Intelligence unifies AMI, HES and MDM data into a single live, semantic model of the metering estate, and runs nine purpose-built services on that shared foundation. The platform reads the entire fleet in near-real time and converts each signal into a prioritised, fully auditable action, consistently across electric, water and gas networks.

Key Features

- Read Rate & SLA
- Comms Network
- Firmware & Config
- Meter Health & Failure
- AMI Ops 360 — SMOC
- Water Leak & Burst Detection
- Tamper & Alarms
- Remote Command
- GenAI Assistant



Industry Challenges

Metering teams are expected to keep read rates high, protect revenue and stay ahead of failures across a growing, multi-vendor fleet, often spanning three commodities at once. Missed reads, degrading communications and disconnected systems steadily erode both billing accuracy and operational visibility.



Missed reads lead to estimated bills, rebills and avoidable revenue leakage



Communications gaps and orphan meters stop reporting without anyone noticing



Ageing and failing meters often come to light only after a customer complains



Leaks and bursts can drive non-revenue water for days before they are detected



Meter tampering and theft stay hidden within ordinary consumption patterns



Field operations remain manual and truck-heavy, with limited remote control

Learn More

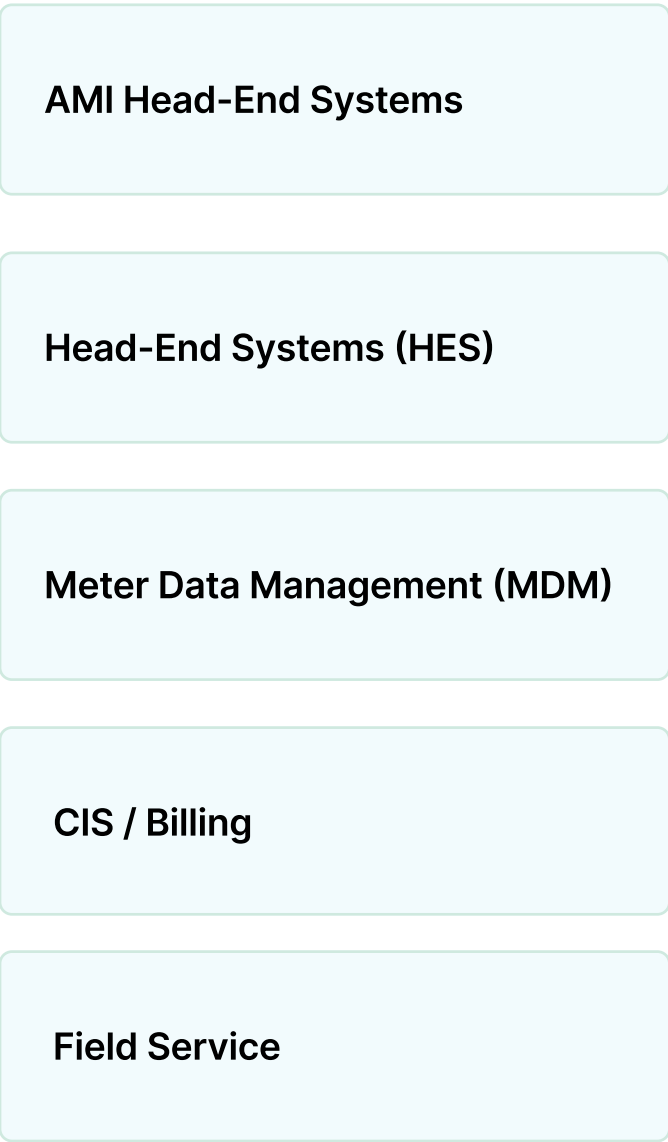
To schedule a live demo or find out more information, visit www.impresa.ai or call +1-281-794-5700

AI-POWERED CORE CAPABILITIES

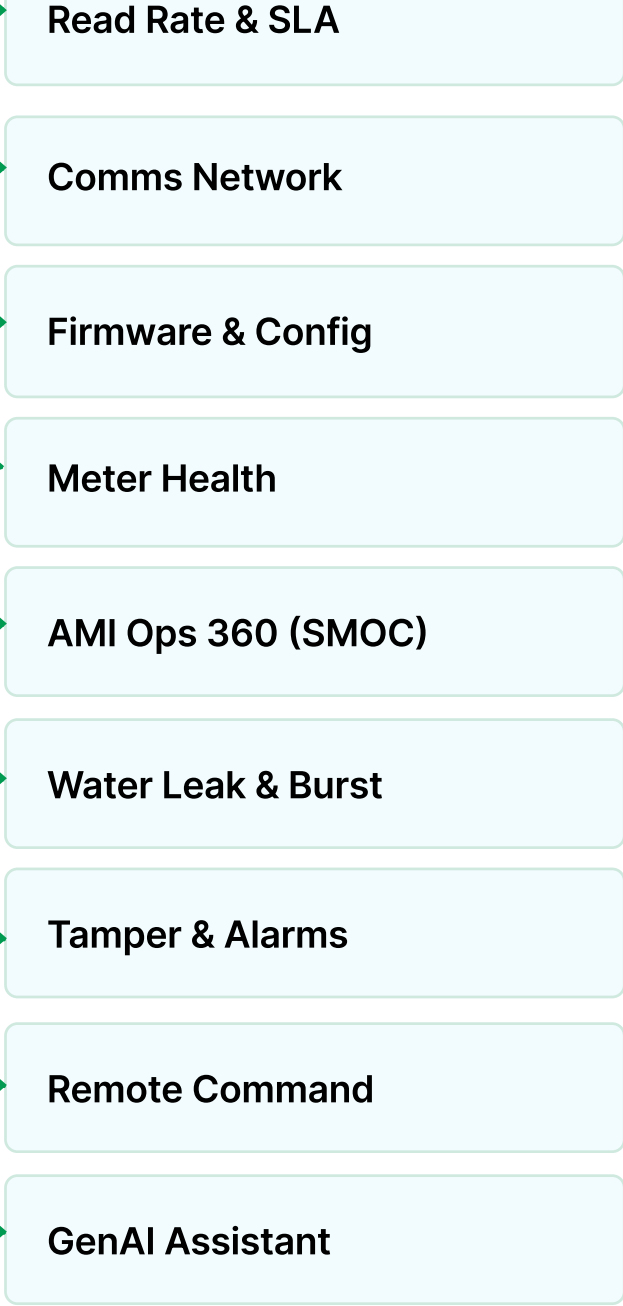
One Estate Model, Nine Metering Services

Data from AMI head-ends, HES, MDM, CIS and field-service systems, drawn from a multi-vendor fleet, flows into the Impresa Semantic Engine, which assembles a single model of the metering estate. Each of the nine services then draws the governed data it needs from that shared model, consistently across electric, water and gas.

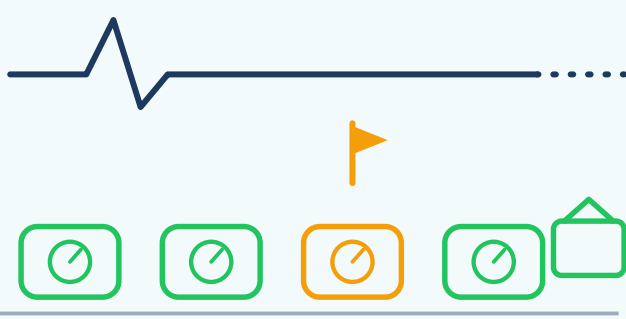
DATA SOURCES



INTELLIGENCE SERVICES



BUILT FOR THE GRID



Foresight & Meter Health

Utility-trained models score the fleet continuously and predict failures 30days ahead by root cause, flagging fire-risk units for safety priority. A spares-demand forecast anticipates emergency procurement before it is needed, while read-gap and communications analytics turn missed reads into a targeted list of field and network fixes.



AMI Ops 360, the SMOC

A Smart Meter Operations Center unifies all nine services in one command view, combining a live exception feed, SLA timers, automated playbooks and role-based lenses for Ops, Field, Billing and Executives. Every remote action passes through a pre-execution safety checklist and an immutable audit trail, giving full 360-degree track-and-ticket oversight in a single place.

Business Benefits

99%+

AMI read rate achieved

20-30%

Reduction in non-revenue water

25-40%

Fewer field truck rolls

25-50%

Improved Incident resolution via SMOC

- Close pre-billing read gaps before the billing cycle closes
- Recover revenue through meter-accuracy and tamper detection
- Predict meter failures early and pre-position spares accordingly
- Resolve issues remotely under audited, dual-approval controls

Learn More

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Supported Utility Use Cases

Read Rate & Billing Assurance

Near-real-time SLA tracking by zone, communications technology and meter class, with pre-billing completeness gating so that estimated bills remain the exception rather than the norm.

Water Leak & Burst

Minimum-night-flow leak signatures, real-time burst alerts localised to a district metered area, and AWWA-style non-revenue-water accounting.

Network & Meter Health

AMI mesh and backhaul health, orphan-meter detection, machine-learning failure prediction by root cause, and forward spares-demand forecasting

Tamper, Theft & Remote Ops

Machine-learning tamper triage that separates genuine events from network noise, together with governed remote connect and disconnect and on-demand reads

Related Products

- Grid Intelligence
- Smart Meter Intelligence
- Transformer Load Monitoring
- Outage Intelligence
- Revenue Intelligence
- Customer Intelligence
- Sustainability Intelligence
- Impresa Meter Data Hub
- Impresa Language Model

Modern Enterprise Platform

AI-Powered Energy Intelligence Architecture

Cloud Native Architecture

Unified Estate Model

Utility-Trained AI

Near-Real-Time Map Views

Automated Alerts & Ticketing

Open APIs

Multi-Tenant & RBAC

Electric · Water · Gas

Why Utilities Choose Impresa

Compatible with leading utility enterprise systems, and grounded in open standards:

Purpose-built for distribution grid operations

A single semantic model shared across all eight services

Extends across electric, water and gas on one platform

Explainable AI and language models trained on utility data

Near-real-time geospatial drill-down, from region to customer

Governed remote control backed by an immutable audit trail



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