Consumption Intelligence

Because you can't optimize demand if you're guessing at it.

thaora

Utilities can't afford to **operate blind** anymore.

Electricity, gas, and water providers face growing pressure on every front, rising operational costs, stricter regulatory oversight, and customers who expect accurate billing backed by transparency.

Legacy metering systems struggle to keep up. They carry high service costs, limited visibility, and leak revenue through missing data, theft, or tampering.
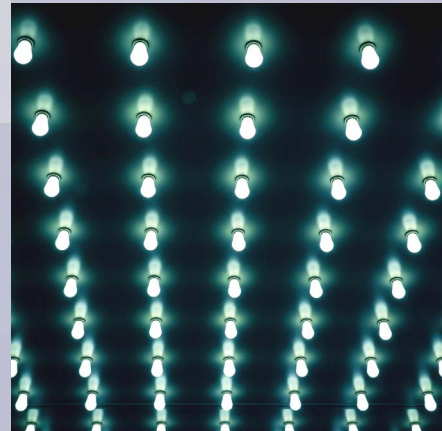
Time to move from metering to

ACTUAL INTELLIGENCE.

Thaora Consumption Intelligence transforms these challenges into measurable returns. As a modular, vendor-neutral, and cloud-native platform, it continuously collects and validates remote readings across electricity, gas, and water networks.

Built-in AI/ML models analyze consumption patterns in context with operational, weather, and demographic factors, enabling accurate forecasting, anomaly detection, and proactive action to protect revenue and improve efficiency.

Transparency builds
TRUST.

Real–time visibility across meters and customers is delivered through **intuitive** web and mobile dashboards.

This shared clarity reduces billing disputes, restores confidence, and creates a foundation for new energy services and data–driven planning.

Modernization
without disruption.

Utilities gain scalability, resilience, and regulatory alignment, cutting operational cost while accelerating return on investment. Thaora modernizes operations without forcing expensive system replacements.

THAORA **CONSUMPTION** INTELLIGENCE

METERING SUBSYSTEM

- Vendor metering systems
- Water / Gas sensors
- Smart-meters

COMMUNICATION LAYER

- LPWAN
- Cellular networks
- Protocol adapters / Connectors

REMOTE DATA

MEASUREMENT DATA

HARMONIZED DATA

DATA STORAGE & MANAGEMENT

- Data Warehouse
- Time-Series DB
- IT/OT integration

ANALYTICS & ALGORITHMIC LAYER

- AI/ML models
- Data processing models
- Anomaly / Trend detection
- Statistical models
- Model retraining

INSIGHTS

VISUALIZATION & CONTROL LAYER

- Reporting
- UI
- Planning tools
- Decision support

Users

INTEGRATION & INTEROPERABILITY

- Modular Add-ons
- Secure forwarding
- ERP
- Weather data

API endpoints

DATA

WEATHER DATA

DEPLOY

DEPLOYMENT ENVIRONMENTS

- On-Premises
- Cloud

Continuous remote readings, fully automated.

Thaora enables uninterrupted and reliable remote data collection across **electricity, gas, and water meters.**

It integrates seamlessly with existing field devices, from LPWAN-connected sensors to meters with built-in mobile communication and vendor-supplied metering systems.

This end-to-end interoperability eliminates data gaps, simplifies maintenance, and reduces operational complexity, turning fragmented metering layers into a unified flow of live consumption intelligence.

Regulatory–ready data verified before it moves.

Data acquisition, validation, and preparation for billing, reporting, and analytics are **fully automated.**

A centralized time–series database is optimized for high–volume metering data, ensuring fast and accurate insights.
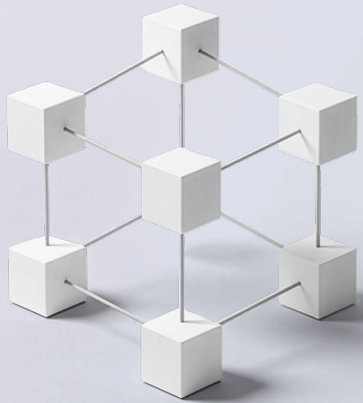
Advanced data warehouse capabilities support historical reporting and aggregation, helping utilities meet regulatory requirements with confidence.
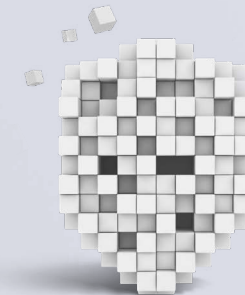
Secure integrations with ERP, billing, and operational systems enable a unified flow of information across departments.

Forecasting and anomaly detection, powered by predictive analytics.

Numerical and statistical models detect anomalies and reveal consumption trends. Historical data continuously improves model accuracy, allowing utilities to prevent losses, protect revenue, and optimize resources proactively.

Consumption data is enriched with **operational, weather, and demographic** inputs to enable accurate demand forecasting and network performance assessment.
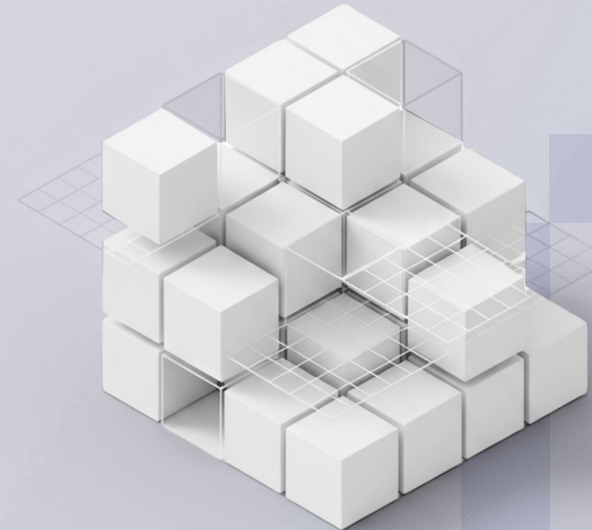
Real–time transparency builds customer trust.

With live insight across meter assets and customer endpoints, billing becomes **verifiable, not debatable.**

Validated data and proactive alerts reduce disputes, strengthen customer confidence, and open the door to new service models and strategic planning.

Designed for humans, not just systems.

Intuitive web and mobile dashboards provide real–time monitoring, alarm handling, reporting, and analytics.

Teams gain a clear and actionable view of operations, enabling faster decision–making across both field and office roles.

A modern interface reduces onboarding and training time, improving adoption across the organization.
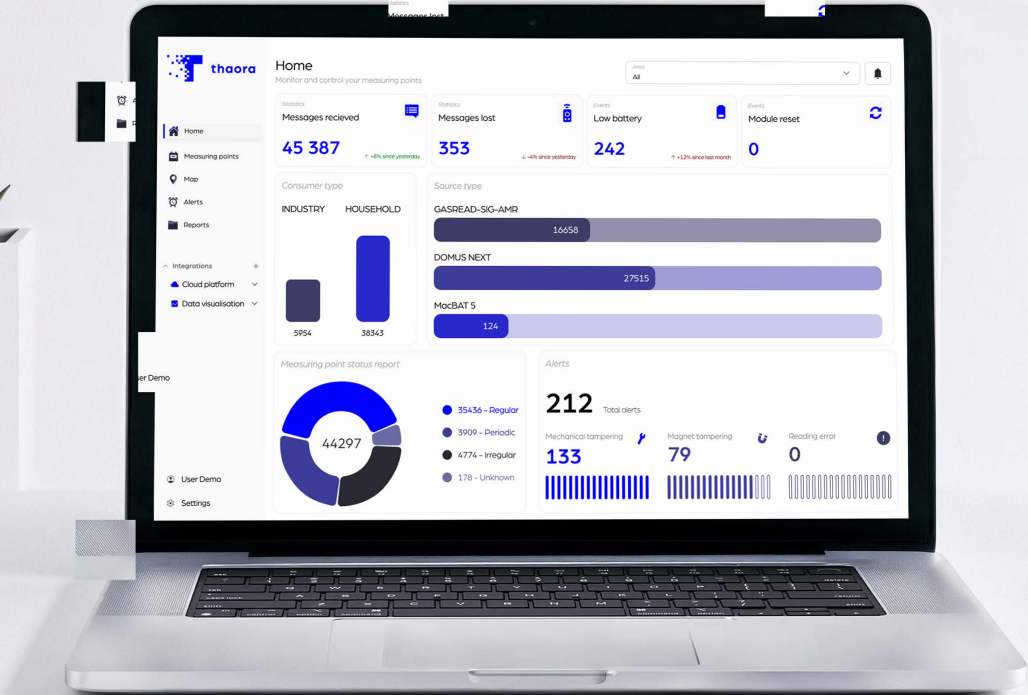
Deployment on **your** terms.

As a cloud-native platform, Thaora Consumption Intelligence can run on-premises or through **AWS, Google Cloud, or Microsoft Azure.**

This hybrid flexibility ensures alignment with IT strategy, cybersecurity requirements, and data sovereignty rules, without forcing disruptive system replacements.

Utilities gain scalability, resilience, and lower operating costs, accelerating return on investment.

Data clarity is not a feature. It's a

TURNING
POINT.

Flip the switch. Talk to us.

thaora.com