



AI-Powered Digital Gas Intelligence Platform

Monitor Every Asset • Predict Every Risk • Optimize Every Decision

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The Future of Gas Utilities Starts with Intelligence

Gas utilities are evolving rapidly due to the global energy transition, decarbonization goals, methane reduction initiatives, aging pipeline infrastructure, and increasing regulatory scrutiny. Modern utilities require continuous operational awareness and AI-assisted decision making to ensure safe, reliable, and sustainable gas delivery.



Executive Message

Safe, reliable, and sustainable gas operations increasingly depend on data-driven intelligence.

✓ Energy transition and decarbonization

✓ Pipeline integrity

✓ Methane emission reduction

✓ Public safety

✓ Hydrogen readiness

✓ Renewable Natural Gas (RNG)

✓ Customer expectations

✓ Regulatory compliance

Why Pipeline Integrity Matters

Pipeline integrity is fundamental to safety, reliability, and regulatory compliance. AI enables proactive monitoring and predictive maintenance to reduce risk before failures occur.



Business Value

Improve public safety, extend asset life, reduce emergency repairs, and lower methane emissions.

⚠ Energy transition and decarbonization

📶 Pipeline integrity

⚡ Methane emission reduction

⚙ Public safety

🏭 Hydrogen readiness

👥 Renewable Natural Gas (RNG)

⊖ Customer expectations

The Digital Gas Utility

Impresa's vision of the digital gas utility is built on Connected Assets, Trusted Operational Data, Enterprise AI, Digital Customer Engagement, and Intelligent Operations.



Executive Insight

Digital transformation creates visibility; AI transforms visibility into intelligent action.



Connected
Infrastructure



Trusted Data



Enterprise AI



Customer
Engagement



Intelligent
Operations

The Impresa Gas Platform

Impresa Gas Solutions complements existing operational systems through a composable enterprise platform.

"One platform delivering enterprise intelligence across gas operations."

Core Modules

- Impresa Insights
- Impresa Meter Data Hub
- Impresa CX
- Impresa Field Service
- Impresa AI+
- Impresa SLM

Enterprise Integration

Seamlessly connects with your existing infrastructure:

SCADA

GIS

ERP

Gas AMI

Asset Management

AI Across the Gas Value Chain

Artificial Intelligence delivers value from gas procurement to customer service and long-term planning.



Executive Insight

AI is most valuable when embedded throughout the end-to-end gas value chain.



Procurement & Demand

Gas procurement and demand forecasting



Transmission

Transmission pressure optimization



Storage

Storage analytics



Distribution

Distribution leak detection



Customer

Customer usage analytics



Financial

Revenue assurance



Procurement & Demand

Asset health and digital twins

Gas Intelligence Portfolio

Impresa organizes capabilities into business intelligence domains tailored for gas utilities.



Domain Architecture

Each domain combines AI, analytics, dashboards, workflows, and KPIs.

Pipeline Integrity Intelligence

Leak Detection Intelligence

Safety Intelligence

Asset Intelligence

Revenue Intelligence

Customer Intelligence

Methane Emissions Intelligence



From Reactive to Autonomous

Utilities evolve through Reactive, Connected, Digital, AI-Driven, and Autonomous operating models.



Executive Insight

AI augments engineers and operators by continuously recommending optimal actions.

Manual inspections

Continuous monitoring

Reactive maintenance

Predictive maintenance

Periodic surveys

AI-driven risk management



Why Impresa

Purpose-built for utilities, Impresa combines enterprise AI with deep utility expertise and open architecture.

✓ Purpose-built utility platform

✓ Composable architecture

✓ Cloud/Hybrid deployment

✓ Enterprise AI

✓ Open APIs

✓ Professional services

• One Platform • One Intelligence Core • Unlimited Industry Solutions.

Gas-Specific AI Use Cases

- Pipeline failure prediction
- Gas leak detection and localization
- Pressure optimization
- Compressor optimization
- Gas meter tamper and theft detection
- Methane emissions monitoring
- Cathodic protection analytics
- Hydrogen readiness assessment
- Renewable Natural Gas integration analytics
- Digital twin-based network planning

Business Outcomes

- ✓ Improve Public Safety
- ✓ Strengthen Pipeline Integrity
- ✓ Reduce Methane Emissions
- ✓ Enhance Regulatory Compliance
- ✓ Increase Asset Reliability
- ✓ Improve Revenue Assurance
- ✓ Optimize Workforce Productivity
- ✓ Increase Customer Trust
- ✓ Improve Operational Efficiency

Document Status

Framework Version 2.1 is frozen as the baseline structure for the Impresa Gas Solutions marketing manuscript. Future versions will enrich the content with detailed narratives, industry examples, illustrations, customer stories, and implementation guidance while preserving this approved framework.



Learn More

To schedule a live demo or find out more information,
visit **www.Impresa.ai** or call **+1 510 824 3255**