



ARNOWA IoT × AI

From Data to Intelligence.
From Insight to Action.

What is IoT × AI?

Arnowa seamlessly integrates **IoT (Internet of Things)** sensors and infrastructure with **AI-driven analytics** to deliver **real-time, automated, and intelligent solutions** for buildings, campuses, industries, and cities.

Our IoT × AI platform transforms operations from reactive to pro-active and predictive, enabling data-driven decision-making, enhanced efficiency, regulatory compliance, and measurable sustainability outcomes.

Core Capabilities



Real-Time Monitoring & Data Acquisition

- Deploy smart IoT sensors for live data from facilities, energy, water, air, occupancy, and more
- Live data refresh every 5 seconds
- Edge-to-cloud communication over WiFi, LoRaWAN, 4G
- Automated work flows and anomaly detection
- Enables predictive and prescriptive maintenance to reduce downtime



AI-Powered Intelligence

- Anomaly detection and predictive maintenance
- Machine learning models for demand forecasting and pattern recognition
- Gen AI and Agentic AI enabled
- Predictive AI to identify risks, trends and potential impacts



Automated Control Systems

- Connects energy, water, HVAC, safety, and environmental systems on a single platform.
- Seamless integration with legacy systems, third-party apps, and cloud services.
- Supports compliance with regulatory and sustainability framework.



Intelligent Dashboards & Smart Simulation

- Creates virtual replicas of buildings, campuses, and urban spaces.
- Enables scenario planning, risk assessment, and optimisation of resources.
- Enhances operational foresight and strategic decision-making.



A Few Applications Across Sectors

Smart Buildings

Optimize energy and comfort, track occupancy, automate systems



Hospitals & Healthcare

Monitor indoor air quality, automate critical system control



Industrial Facilities

Predict equipment failures, track emissions in real-time



Smart Cities & Urban Spaces

Analyze utility consumption, automate street lighting, monitor air quality



Educational Campuses

Energy savings, optimized space utilization, and safety alerts



Benefits of IoT × AI with Arnova

- **Operational Efficiency** – AI and IoT automation streamline processes, minimise downtime, and optimise performance.
- **Cost Optimisation** – Reduce energy, water, and maintenance expenses with predictive analytics.
- **Sustainability & Resource Management** – Data-driven insights improve resource utilisation and lower emissions.
- **Regulatory & ESG Compliance** – Automated monitoring and reporting ensure alignment with evolving standards.
- **Scalable Deployment** – Modular platform adapts to any facility, multi-site network, or city-scale operation.

Technology Stack

- IoT Hardware & Sensors
- Multi Protocol Edge Devices & Gateways
- Arnova Cloud Platform
- AI Algorithms
- User Dashboards & Reports



Why Arnova?



Power the Future with IoT × AI

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PREFERRED SUPPLIER



Arnova helps you transform complexity into clarity, and data into action.