ARNOWA

Smart | Efficient | Effective

ARNOWA Smart Built Environment

Unlock Efficiency, Comfort & Automation in Every Space

Transform Your Built Environment

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Arnowa transforms built environments with a seamless blend of IoT sensors, intelligent automation, AI-driven insights, and cloud connectivity. From commercial towers to healthcare campuses, Arnowa empowers facility managers, owners, and tenants to optimise performance, enhance sustainability, and improve occupant experience through real-time, data-driven decision making.

Core Capabilities

Indoor Environment Digital Twin & Ambient Control

- Real-time digital replicas for building simulation and optimisation
- Automated monitoring and control of air quality, lighting, temperature, and humidity
- Scenario-based planning for energy efficiency and occupant comfort

Predictive Monitoring & Smart Alerts

- AI detects anomalies and unusual patterns in real time
- Actionable alerts for proactive maintenance and operations
- Minimise downtime and prevent disruptions
- Predictive AI for trend forecasting and analysis

Utility & Sustainability Intelligence

- Monitor and optimise energy, water, gas and resource usage
- Enable data-driven ESG reporting and compliance
- Drive measurable environmental and operational impact
- Align with frameworks like NABERS, WELL etc

Ambient Experience & Occupant Wellbeing

- AI insights for personalised environmental settings based on occupancy and patterns
- Automated adjustments to maintain comfort and productivity
- Enhance occupant satisfaction and engagement
- GenAI and Agentic AI for effective facility management

Unified Platform Across Facilities

- Central dashboard integrating IoT, HVAC, lighting, security, and energy systems
- API-ready for BMS, SCADA, and enterprise platforms
- Manage multiple buildings or campuses from a single interface

Security, Compliance & Edge-Cloud Intelligence

- AI-driven threat detection and regulatory compliance monitoring
- Edge computing for real-time insights; cloud for analytics and reporting
- Ensure safety, efficiency, and scalable operations

A Few Use Cases

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Commercial Buildings & Campuses

- Optimise energy, HVAC, lighting, and space utilisation.
- Monitor occupancy, safety, and indoor environment in real time.

Schools & University Campuses

- Ensure healthy, productive learning environments.
- Automate ambience control and air quality management.

Healthcare Facilities & Hospitals

- Track patient zones, staff movement, and air quality.
- Support compliance, control, and safety.

Restaurants, Hotels & Hospitality

- Optimise guest comfort, occupancy, and resource usage
- Automate, facility management, environmental controls and safety monitoring

Industrial & Critical Infrastructure

- Monitor restricted zones and hazardous areas.
- Enhance worker safety, resource utilisation and operational efficiency.

Public Buildings & Smart Cities

- Manage lobbies, transport hubs, auditoriums, and streetscapes.
- Enable real-time monitoring and responsive operations.

Cold Storages & Temperature-Controlled Zones

- Monitor and maintain precise temperature, humidity, and air quality
- Automate alerts for deviations to prevent spoilage or equipment damage.

Greenhouses & Controlled Agribuildings

- Maintain precise climate, lighting, and humidity for crops
- Automate irrigation and resource management

Supporting global frameworks

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ASHRAE · greenstar · NABERS · WELL · World Health Organization · U.S. Green Building Council LEED USGBC · GRESB · International Organization for Standardization ISO 16000

Benefits at a Glance

- **Optimised Operations & Cost Savings –** Real-time control of energy, water, and HVAC reduces wastage and operating costs.
- **Healthier & More Productive Spaces –** AI-driven environment control improves air quality, lighting, and occupant comfort.
- **Proactive Safety & Maintenance –** Smart alerts and predictive monitoring prevent equipment failures and operational disruptions.
- **Future-Ready & Scalable –** Centralised, AI-enabled platform integrates multiple sites and systems, ready for evolving sustainability and wellness standards.

Tech Integration

- **Hardware & Edge Sensors –** Capture real-time data from HVAC, lighting, air quality, and occupancy sensors.
- **Cloud Analytics & AI Module –** Drive dynamic dashboards, anomaly alerts, and predictive maintenance insights.
- **Expert Intelligence –** Analyse data to recommend optimisations and support sustainability strategies.
- **Indoor Digital Twin –** Virtual replica of building systems for real-time simulation, monitoring, and scenario planning.

Why Arnowa?

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Global Expertise Trusted by organisations across multiple sectors and countries.

End-to-End Smart Solutions From sensors to cloud, AI, and indoor digital twins.

Proactive, AI-Driven Operational insights, automation, and smart alerts optimise performance.

Supports multi-site deployments, sustainability goals, and wellness standards.

Get in touch to see how Arnowa can smarten your building today.

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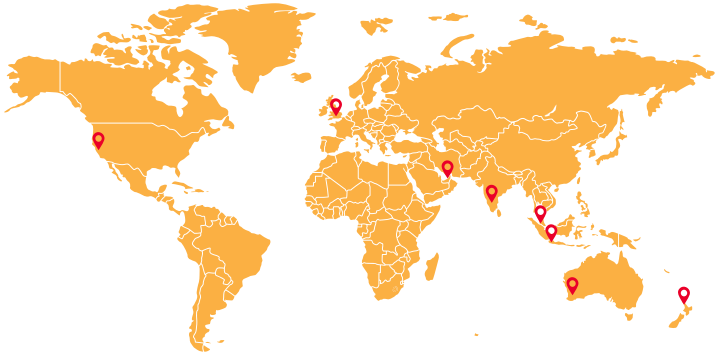

Experience intelligent buildings in action — from pilot to enterprise-scale deployment.