



ARNOWA for Smart Buildings

Connected Infrastructure. Intelligent
Operations. Resilient Outcomes.

Transforming Buildings into Intelligent Ecosystems

Modern buildings must go beyond providing shelter—they need to adapt, optimise, and perform. Arnowa transforms buildings into intelligent ecosystems with its integrated **AIoT (AI + IoT)** platform, enabling real-time monitoring, automated control, and predictive insights across energy, water, environment, and assets.

Core Capabilities

Energy Management



- Monitor, control, and optimise electricity use across HVAC, lighting, and appliances.
- Integrate with solar and onsite generation
- AI driven insights

Water Monitoring



- Track water consumption and detect leaks instantly.
- Enable automated irrigation and smart water reuse systems across green spaces
- Indoor flood alerts

Indoor Air Quality (IAQ)



- Continuously assess CO₂, VOCs, temperature, humidity and other parameters
- Smart alerts for poor IAQ and equipment anomalies
- Align with green building standards like NABERS, WELL, RESET standards etc

Occupancy & Space Utilisation



- Use sensors and AI to optimise space planning, improve comfort, and manage peak loads.
- People counting and crowd management
- Indoor ambience control for maximised comfort
- Enhanced tenant management and experience

Predictive Maintenance



- AI based predictive maintenance to reduce downtime and maintenance costs
- Predictive AI for forecasting trends and effective decision making
- Gen AI and Agentic AI for better insights and automation

Smart Security & Security



- AI enabled video analytics for intrusion detection, access control, crowd monitoring, and safety compliance.
- Smart fire safety, emergency lighting, and evacuation monitoring and alerts

A Few Use Cases



Commercial Offices & Corporate Campuses

- Optimise energy, lighting, and HVAC across multiple floors
- Monitor occupancy, comfort, and safety for employees and tenants



Educational Institutions & Campuses

- Manage classrooms, labs, and common areas for energy and space efficiency
- Monitor safety, security, and comfort for students and staff



Retail & Hospitality

- Optimise environmental conditions for customer experience
- Ensure operational efficiency and predictive maintenance for assets



Healthcare & Hospitals

- Track indoor air quality, temperature, and humidity for patient safety
- Ensure compliance with health standards and regulatory frameworks



Residential Complexes & Smart Homes

- Automate lighting, HVAC, and access control
- Enable energy savings and real-time alerts for residents

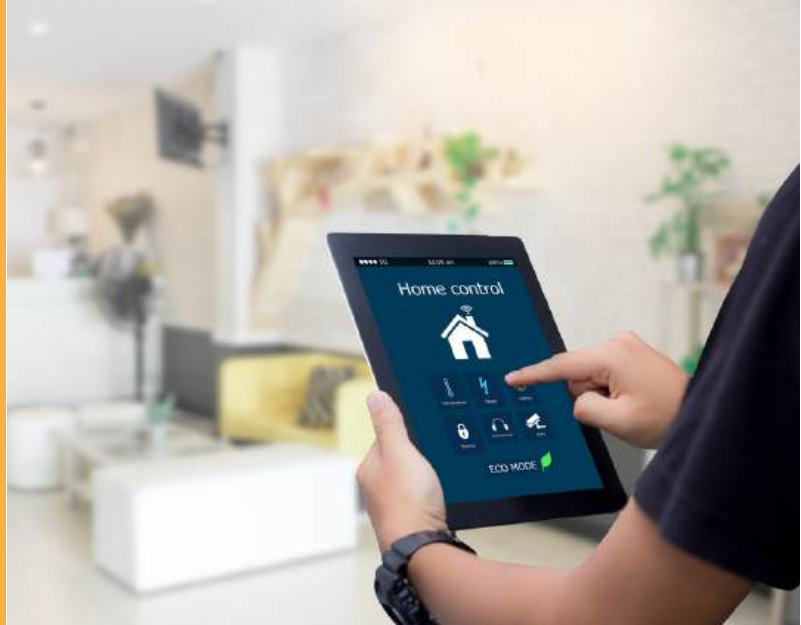


Benefits at a Glance

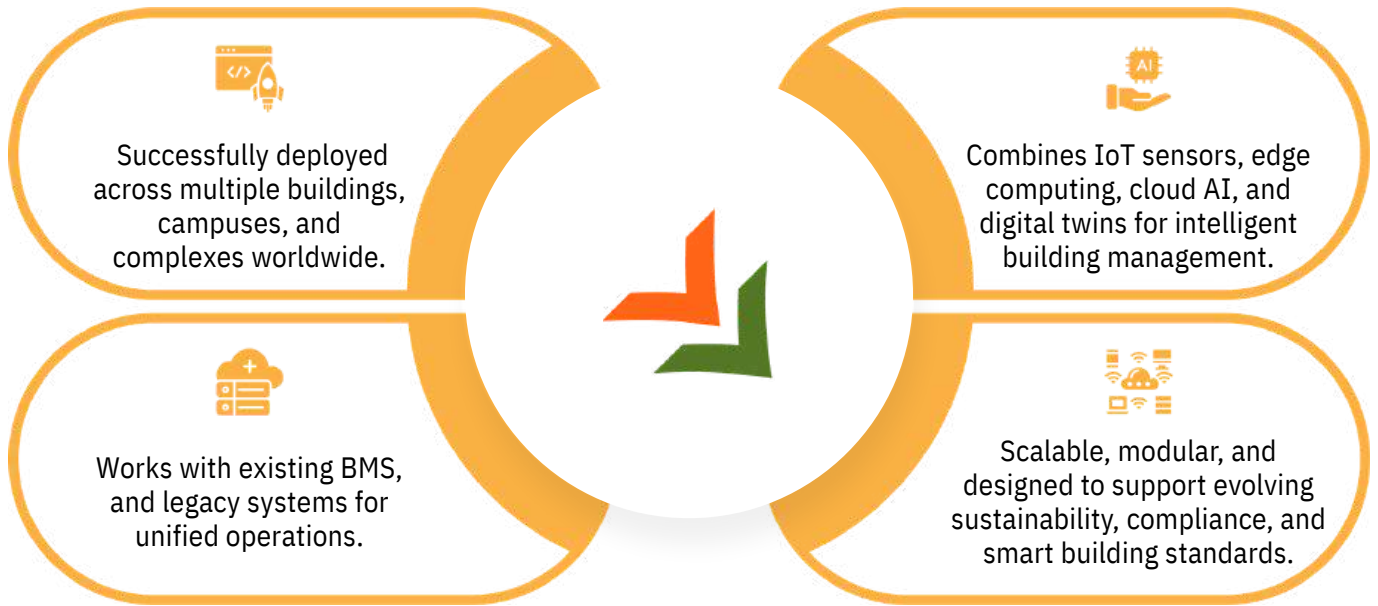
- **Tenant & Occupant Comfort** – Smart control of temperature, lighting, and air quality for an optimal environment.
- **Transparent Resource Usage** – Track energy, water, and utility consumption for fair billing and accountability.
- **Operational Efficiency** – Centralised dashboards and AI-driven insights reduce downtime and streamline management.
- **Proactive Maintenance** – Predictive alerts prevent equipment failures and service disruptions.
- **Smart Space & Facility Management** – Optimise usage of common areas, parks, and shared amenities.
- **Parking & EV Integration** – Intelligent parking management with smart management and EV ready spaces.

Tech Integration

- **IoT** sensors for real-time monitoring of HVAC, lighting, occupancy, and air quality.
- **AI** and predictive analytics for maintenance, energy optimisation, and anomaly detection
- **LoRaWAN** for long-range, low-power, and scalable wireless connectivity
- **Edge computing** for local processing, low latency, and offline operation
- **Video** analytics for occupancy, security, and space management
- **Digital** twin for visualisation, simulation, and scenario planning
- **Unified** integration with BMS, access control, and other existing energy/environment systems



Platform Highlights



The Future of Buildings is Smart.

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LoRa Alliance® localbuy



Arnowa's AIoT solutions help you cut costs, comply with ESG, and create safer, healthier, more efficient spaces.