

JENESys[®] Building Solutions for K-12 Schools



*Control, manage, and operate your facilities
at peak performance and efficiency levels.*

JENESYS[®]
 BY LYNXSPRING

Energy Management
Connectivity & Analytics
Building Automation & Integration
Occupant Health, Safety & Wellness



JENEsys® provides K-12 schools an affordable option to optimize the energy performance of HVAC systems and monitor smarter ventilation for students and staff.

Strategic Operation of Schools Matter

Investing in healthy and safe classrooms for K-12 schools has now become a very important aspect of each school district's budget. A post-COVID world, has necessitated numerous changes within the built environment. K-12 school districts are seeking ways to accommodate new mandates/requirements in the operation of buildings.

Evolving health protocols for safe building occupancy has caused an increased focus on smarter ventilation systems while maintaining a set of comfort and safety standards for students and staff.

As part of the [\\$1.9 trillion American Rescue Plan](#) passed by Congress, school districts have until 2024 to spend a stimulus aid of [\\$168 billion that has been allocated specifically for K-12 schools](#) to make upgrades where necessary to their facilities.

Equipped with a wide range of systems and devices that control or monitor HVAC, energy management, lighting, and security—a critical goal for many K-12 schools is maximizing the efficiency of these operations.

It is estimated that US school districts spend upwards of [\\$8 billion/year](#) and that only [25% of those costs go towards smart energy improvements](#). In fact, the cost of a school's utility bills is the 2nd costliest expenditure— 70% of energy use going towards daily heating, cooling, and lighting.

Ways to Reduce/Conserve Energy Usage

- ✓ Use demand-controlled ventilation for such larger common areas as cafeterias, gyms, and auditoriums.
- ✓ Consider upgrading to more efficient lighting/HVAC systems.
- ✓ Schedule regular HVAC system maintenance.

JENEsys® Building Operating System

The JENEsys® Building Operating System, powered by the Niagara Framework®, is an ideal open turnkey solution for single facilities or a multi-building environment.

It combines connectivity, automation, integration, data access, tagging, normalization, control, supervision, predictive and preventative maintenance, visualization, and optional Cloud services into a single architecture.

Scalable and Open Modular Platform

LynxSpring's JENEsys solutions deliver connectivity, interoperability, and analytics via a scalable and open modular platform. It supports a variety of applications with the flexibility of common API's, development tools, open access, and an open hardware platform.

Our edge-to-enterprise technologies and solutions incorporate IP-enabled software frameworks and modular embedded hardware platforms that support multiple protocols, data exchange and analytics, and two-way communication.

Phased Implementation

We recognize that projects are subject to certain ROI requirements. Our solutions can be phased-in to meet your specific priorities and budget.

Built on an open protocol platform, JENEsys meets the specific needs of individual systems and allows facilities to continually build off the same network deployment and add additional applications as desired.

Since each system component is open, each can be integrated and rolled out in a series of phased implementations. *Add different modules, as necessary.*

Smart Technology.
 Smart Equipment.
 Smart Solutions.
Smarter Buildings.

One IP Platform. Many Possibilities.

JENEsys Delivers Business Value

- Preserves existing system investments and integrates them with new open standards-based technologies.
- Provides access and control for all your facility operating systems.
- Combines data from different systems to better support overall facility operation, performance, and energy management.
- Enables specification of systems and applications from multiple vendors reducing the potential for vendor lock-in.

JENEsys Delivers Operating Value (ROI)

Financial and Business Management

- Streamlines/integrates multiple operations via a central location.
- Improves profitability by lowering cost of operations.
- Improves workflow and resource management.

Energy Management

- Supports improved energy control and management.
- Easily provides data on consumption patterns and trends.
- Helps to identify and reduce energy utilization and costs.

Facility and Equipment Management

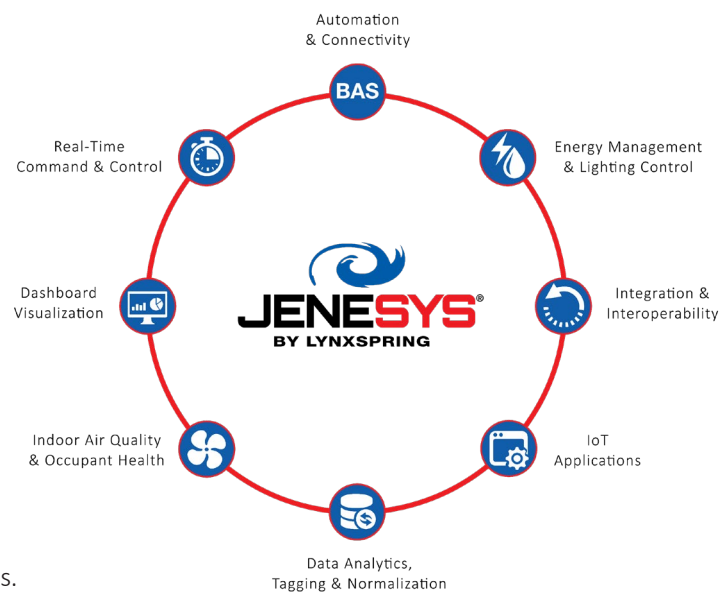
- Increased system and equipment functionality.
- Reduces equipment downtime/ maximizes lifetime value.
- Improves visibility into operational assets.

Maintenance and Operations

- Quick troubleshooting/resolution of revenue-impacting areas.
- Easily enables remote diagnostics and repair.
- Supports preventative maintenance.

JENEsys Delivers Solutions

- A single tool with multi-vendor interoperability.
- Device universality
- Open system and open standards.
- Easy installation and rapid deployment.
- Remote access and management.
- Scalability, flexibility, and extensibility.
- Supports multi-party software and hardware.
- Real-time data driven dashboards.
- UI on web, desktop, and mobile.
- Co-existence of multi-applications.





HVAC and lighting expenses account for over 60% of a building's operating costs. Energy efficiency, management and control can reduce usage and increase your KPI's.

JENEsys® and Energy Management

With rising energy costs, the importance of maximizing the efficiency of equipment and energy management systems has become even more critical both economically and environmentally.

JENEsys' energy management capabilities and data analytics serves as a comprehensive tool that helps retail owners to better manage energy metering, identify trends, resolve potential energy inefficiencies, reduce overall operating costs, and increase employee or occupant health and safety.

JENEsys provides dashboard visibility into energy consumption and utilization patterns of retail spaces, making it easier to manage and identify opportunities for performance improvement and cost savings.

Combined with real-time management and control, JENEsys enables better optimization of equipment run times and demand response.

By optimizing a building's energy usage, companies can benefit by *double digit energy reductions*.

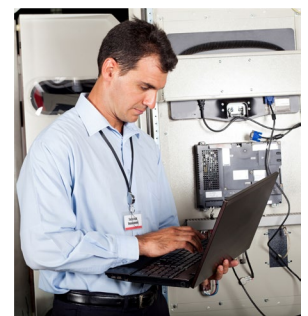


Embracing open software and hardware platforms, LynxSpring develops, manufactures, distributes, and supports edge-to-enterprise solutions and IoT technology that create smarter buildings, smart equipment, and smart applications. The company's technologies and solutions provide the connectivity, control, integration, interoperability, data access and management and analytics enabling users to extract insight, value, and outcomes from operational data.

LynxSpring Professional Services provides comprehensive building automation controls, integration, and application services for all types of buildings, single facility and multi-building environments, new systems, or legacy systems.

LynxSpring's solutions are deployed in millions of square feet of commercial settings in the United States and internationally.

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