



NuOz Empowers Real-Time Energy Management with Digi IoT Connectivity

Challenge

Organizations across sectors such as retail, education, hospitality, and smart cities often struggle with delayed and insufficient energy usage data. Traditional monthly utility bills lack the granularity needed to identify inefficiencies or equipment malfunctions promptly. This delay hampers efforts to reduce energy costs, enhance operational efficiency, and meet sustainability objectives.

Solution

[NuOz](#), based in Bellevue, Washington, addresses this challenge by offering an IoT-based suite of services for comprehensive energy monitoring. Their solution includes:

- ✓ **Sensor deployment:** Installation of mains-powered and battery-operated sensors on electric panels to collect precise, circuit-level data
- ✓ **Communication infrastructure:** Utilization of [LoRaWAN® technology](#) to transmit data from sensors to a local server gateway
- ✓ **Data aggregation and analysis:** Data is backhauled through the cloud to NuOz servers, allowing customers to access detailed usage metrics and trends
- ✓ **Connectivity:** Integration of [Digi EX12](#) LTE and [Digi EX50](#) 5G cellular routers ensures reliable, real-time data transmission
- ✓ **Remote management:** [Digi Remote Manager®](#) enables centralized monitoring and management of the deployed devices

This setup allows organizations to receive live data every five minutes, set alarms for threshold breaches, and gain minute-by-minute insights into their energy consumption.

Outcome

The implementation of the NuOz solution has led to significant benefits:

- ✓ **Cost savings:** The Gresham-Barlow School District in Oregon reduced energy expenditures by over 26% across 20 buildings. By identifying and addressing issues such as malfunctioning equipment, they saved \$8,000 annually.
- ✓ **Operational efficiency:** Real-time monitoring enabled proactive maintenance and immediate adjustments to energy usage, preventing costly downtimes.
- ✓ **Sustainability recognition:** The district earned the Energy Star Partner of the Year award for 12 consecutive years, with energy savings contributing to funding the salaries of 10 teachers.
- ✓ **Industry acknowledgment:** NuOz received the [2025 Digi Green Tech Customer Innovation Award](#) for its innovative approach to smart building energy management.



NuOz leveraged Digi's complete cellular solutions — including Digi cellular routers and Digi Remote Manager — to build an IoT-enabled energy monitoring solution. In turn, this solution helps organizations achieve real-time visibility into their energy consumption, leading to substantial cost reductions, enhanced operational efficiency, and progress toward sustainability goals.

“We’ve relied on Digi cellular solutions for eight years. They’re extremely reliable and price-competitive. We can get live data every five minutes and set alarms and thresholds if readings exceed tolerances. We have our finger on the energy pulse every hour of every day. We really like the remote-management capabilities, because we can monitor each individual sensor and alert the customer in real time if there are any anomalies — even before they’d notice it themselves.” — *Samantha Agee, Vice President of Business Development, NuOz*

For more information, visit:

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