



## Eaton UPSs clean up power for Town of Morinville

**Location:**

Alberta, Canada

**Segment:**

Government

**Problem:**

The town required highly reliable power protection capable of thwarting inconsistent incoming power.

**Solution:**

Eaton® 9170+, 9130

**Results:**

The Eaton 9170+ and 9130 deliver continuous, clean power to the town's critical equipment, ensuring 100 percent uptime.

*When it comes to Eaton UPSs, it's all the features combined and the good price.*

*Gene Anderson, IT coordinator*

**Background**

Poised on the doorsteps of St. Albert and Edmonton, Canada, the Town of Morinville offers convenient access to urban amenities while retaining the characteristics of a vibrant and flourishing rural community. With a population of 8,569, the city defines itself as a healthy business and residential community, with family-oriented residents committed to keeping the town safe and neighborly. High quality education, a wide range of recreational activities, diversity of residential styles, a strong retail business core, and a solid industrial base are among the town's advantages.

As the center of the Municipal District of Sturgeon County, Morinville also serves as the commercial hub for the surrounding area.

**Challenge**

Keeping critical equipment and services up and running at all times— including a regional disaster response unit — is not an easy task for the Town of Morinville.

"Power quality can be highly variable at times," reveals Gene Anderson, IT coordinator. "For us, having clean power is a big concern."

Morinville not only faces the ongoing battles waged by spotty incoming power, the town has also experienced six complete blackouts over the past 18 months. "The outages lasted anywhere from a few minutes to 3 or 4 hours," Anderson says.

To overcome its significant power quality challenges and ensure operations remain available around the clock, the town required a highly reliable power protection solution that could safeguard critical data center equipment.

Having experienced positive results with Eaton uninterruptible power systems (UPSs) while working for other companies, Anderson knew just where to turn.



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"I'd seen Eaton units in action at previous jobs, and they did a great job compared to other UPSs," he shares. "The power conditioning was phenomenal; we really loved that. It made a big difference, especially considering our environment."

### Solution

Based on his firsthand experience and the reliability of the product line, Anderson chose the Eaton 9170+ UPS to safeguard the Town of Morinville's data center.

Ideal for mission-critical applications seeking optimum reliability, the 9170+ delivers the highest level of power protection available by eliminating any single point-of-failure with N+X power and logic redundancy. Furthermore, since the 9170+ houses both the logic and power within the modules and not within the enclosure, redundancy is facilitated for the entire UPS. At the same time, the online design of the UPS completely isolates connected equipment from all incoming power problems — especially advantageous for the Town of Morinville.

"We needed clean power," Anderson emphasizes. "That was definitely our biggest concern."

The 9170+'s scalable, modular design was another boon for the Town. Having deployed an 18 kVA unit, the Town of Morinville has the option of easily expanding power, redundancy and runtime as needed, through the addition of plug-and-play 3 kVA battery and UPS modules.

"The modularity was a big selling point," Anderson acknowledges. "There are a lot of different requirements that we're going to be facing in the next few years, so our power needs could change drastically."

Ultimately, it was the reliability of the 9170+ that mattered most. Because the town building houses an emergency response center, the ability to keep it up and running at all times is imperative. "You can't respond to a disaster if you don't have power," Anderson emphasizes. "So anything that is critical is tied to the 9170. Anything that has to run runs on that."

Impressed by the performance of the 9170+, the Town of Morinville opted to once again select Eaton when it required protection for a variety of network gear, including switches and access points, as well as security and DVR camera devices. Over the past year, Anderson has purchased three 3000 VA Eaton 9130 Rackmount UPSs, which offer a 0.9 power factor and greater than 95 percent efficiency in high-efficiency mode.

To further increase system uptime, the 9130 units are equipped with ABM® battery charging technology, which relies on sophisticated sensing circuitry and an innovative three-stage charging technique to extend the useful service life of the batteries while optimizing recharge time. ABM technology also provides up to 60 days' notice of the end of useful battery service life, allowing ample time to hot-swap batteries without ever having to shut down connected equipment.

Even more, the 9130 delivers premium power protection while occupying just 2U of valuable rack space — a key feature for the Town of Morinville. "Space was a factor for us," Anderson points out.

Optional 2U extended battery modules (EBMs) — which the town added to one of its units — extend backup time for up to several hours. Meanwhile, virtually all Eaton UPSs include Intelligent Power Manager® software, which provides remote monitoring and management of multiple devices, as well as automatically initiates an orderly shutdown in the event of a prolonged outage.

"It talks directly to the network card and shuts down within 5 minutes of a loss of power," Anderson reports. "It has worked very well."

"When it comes to Eaton UPSs, it's all the features combined and the good price," he adds. "They perform well and we get great value out of them."

### Results

With the Eaton 9170+ and 9130 units in place, the Town of Morinville is now able to:

- Provide continuous, clean power to its data center and networking equipment
- Ensure its disaster response center remains operational during emergencies, including a loss of power
- Expand its power protection solution as its equipment needs change, thanks to the modularity of the 9170+
- Preserve valuable rack real estate with the 9130's small footprint.

For more information on our solutions  
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