CELCO
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Celco Powers Vancouver's Clean Energy Future

The City of Vancouver's False Creek Neighborhood Energy Utility (NEU) plays a critical role in delivering low-carbon space heating and hot water to a growing number of residential, commercial, and institutional buildings. As part of its commitment to sustainability and operational excellence, the NEU initiated a facility modernization project to enhance efficiency and scale its energy output.

Faced with outdated equipment, limited system visibility, and manual-intensive processes, the NEU needed a partner who could ensure a smooth transition—without disrupting essential services.

Celco, a Tavoron company, stepped in with a tailored integration strategy that seamlessly merged legacy systems with new infrastructure, delivering a fully automated solution that doubled the plant's energy capacity and maintained an impressive 99% uptime during commissioning.

BACKGROUND

Serving as a cornerstone of Vancouver's sustainable development strategy, the False Creek NEU is designed to provide affordable, low-carbon energy services. However, growing demand and evolving energy goals required an infrastructure overhaul that could keep pace with future needs.

To remain aligned with the City of Vancouver's green energy initiatives, the NEU set out to upgrade its core facility. Key requirements included:

- Preserving operational continuity
- Transitioning to full automation
- Improving system scalability
- Gaining real-time insights into equipment performance

THE CHALLENGE

The NEU faced several significant hurdles in its modernization journey:

- Manual-intensive processes created operational delays and limited responsiveness
- Inefficient equipment hindered performance and sustainability goals
- An unscalable control narrative restricted future growth
- Limited visibility into auxiliary systems prevented proactive maintenance and system optimization

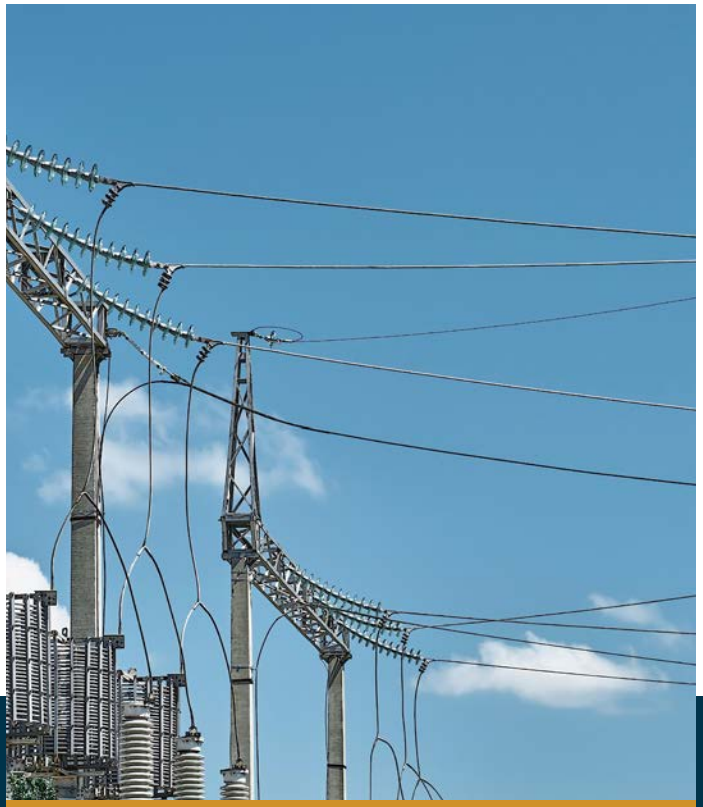
Any upgrade had to take place with minimal disruption to essential heating and hot water services, making the process both technically and logistically complex.

THE SOLUTION

Celco collaborated closely with NEU stakeholders to deliver a comprehensive integration and automation solution, ensuring operational continuity while enhancing performance.

Celco's Contributions:

- Control Narrative Development: Reviewed and refined the system logic to support automation and scalability
- Seamless Integration: Linked legacy systems with new infrastructure for a unified control platform
- Advanced Programming: Enabled long-term system flexibility and future expansion
- Extended System Visibility: Integrated vendor systems into a centralized interface for full data access
- Training & Change Management: Delivered hands-on training for operators to ensure smooth adoption of new systems



THE RESULTS

Celco's expert approach delivered tangible, high-impact results for the NEU and the City of Vancouver:

METRIC	OUTCOME
Plant Energy Capacity	2× increase post-commissioning
Operational Uptime During Commissioning	99% uptime
System Visibility	100% vendor data access for real-time analysis
System Automation	Full transition to automated operations
Sustainability Impact	Achieved CoV green initiative milestones

WHY IT MATTERS

Celco's success with the False Creek NEU showcases how municipal utilities can modernize aging infrastructure without service interruptions—a major concern for cities dependent on legacy systems. Through seamless integration, intelligent automation, and staff enablement, Celco empowered the NEU to meet both its operational and environmental goals.

KEY TAKEAWAYS FOR MUNICIPAL LEADERS

- Critical infrastructure upgrades can be executed with minimal downtime
- Integration of legacy and new systems is not only possible but scalable
- With the right partner, municipalities can achieve sustainability goals and operational excellence

ARE YOU READY TO MODERNIZE YOUR ENERGY INFRASTRUCTURE?

PARTNER WITH CELCO AND DISCOVER HOW SEAMLESS INTEGRATION CAN POWER YOUR CLEAN ENERGY FUTURE.

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