

## A Legacy of Excellence: Sean Furey's Retirement Marks the End of an Era at Genesee

In April, long-time Genesee Plant Manager and Vice President of Thermal Operations, Sean Furey retired after a 26-year career with Capital Power.



Sean had a significant positive impact on Capital Power and Genesee making the facility the world-class power generation asset it is recognized as today. On behalf of everyone at Capital Power, we thank Sean for his years of dedication and service, and his remarkable career.

Leaving a legacy of excellence, Sean Furey (left) retires, and Craig Butler (right) was promoted to the Plant Manager of the Genesee Generating Station.

## Craig Butler Appointed Plant Manager of Genesee

Craig Butler has worked in the energy industry for 30 years. Having started as a floor operator early in his career, Craig has worked his way up into various positions, including being a Shift Engineer. He started with Genesee 16 years ago as the Chief Power Engineer of Genesee 3 (G3). He worked his way up to Senior Manager of G3 and then into Senior Manager Production and Site Manager in 2021. Following Sean's retirement, Craig formally took over as Plant Manager, Genesee.



Craig holds a 1st Class Power Engineer Certificate and an Alberta In-service and National Board Boiler and Pressure Vessel Inspection Certificate.

## Capital Power Welcomes Mike Teshima as Vice President of Operations, Western Canada



Mike Teshima, Vice President,  
Operations Canada West

In October 2024, Mike Teshima joined Capital Power and following Sean's retirement, Mike fully transitioned into the Vice President of Operations West Canada role. Mike joins us from Suncor where he has extensive operations and engineering experience with large industrial facilities, most recently as the Vice President, Edmonton Refinery.

Mike holds a Master of Science in Engineering from the University of Calgary and a Master of Business Administration from Queens University.

## About Us

Capital Power (TSX: CPX) is a growth-oriented North American power producer. We prioritize delivering reliable and affordable power, building clean power systems, and creating balanced energy solutions for the communities we serve.

As a group of experts and innovators in our field, we work to responsibly deliver power the communities across Canada and the U.S. need through the development, acquisition, ownership, and safe operation of renewable and thermal power generation facilities.

Our North American portfolio consists of approximately 10 gigawatts (GW) of power generation capacity at 30 facilities across North America.

Powering Change  
by Changing Power™





# Genesee Repowering Achieves Commercial Operations

On December 13, 2024, Genesee Unit 2 achieved combined cycle commercial operations, resulting in Genesee Units 1 and 2 becoming Canada’s most efficient natural gas combined cycle facility. Completion of this industry-leading project increases overall capacity at the Genesee Generating Station by 512 megawatts (MW) and reduces CO<sub>2</sub> emissions by 3.4 million tonnes annually – representing a ~60% increase in capacity while reducing emissions by ~40%.

The approximately \$1.6 billion project began construction in summer 2021 requiring more than 5.8 million hours of labour with a peak of ~1,250 workers on site. Located entirely within the footprint of the existing Genesee Generating Station, the project involved installing two new Mitsubishi M501JAC gas-fired combustion turbines and Vogt triple-pressure heat recovery steam generators, while utilizing the units’ existing steam turbine generators. In June 2024, the project achieved simple cycle operations for both units which resulted in the facility becoming 100% natural gas fueled – moving Capital Power and Alberta off coal five years ahead of government mandate.

The Genesee Generating Station is now capable of producing up to 1,857 MW of reliable, affordable and cleaner power for Alberta’s thriving economy. The significant baseload generation available on the 26,000+ acre site supports grid-wide reliability while presenting opportunities for future development, energizing the Alberta advantage for new technologies, industries and growth.



The Genesee Generating Station is Canada’s most efficient natural gas combined cycle facility providing reliable, affordable and lower-carbon power for Alberta.

# Annual Peregrine Falcon Hatch Countdown Has Officially Begun!

In April, a pair of falcons returned to the nesting box at Genesee. On May 8 the first egg was laid. Typically, an average of three to four eggs are laid per nesting season.

Peregrine falcon eggs typically incubate for around 33 to 35 days before hatching. The female does most of the incubating, with the male taking turns to allow her to rest and hunt.

To watch the Falcon live, [www.capitalpower.com/sustainability/peregrinefalcons/](http://www.capitalpower.com/sustainability/peregrinefalcons/)



# Proposed Genesee Date Centre Project - Powering Economic Growth in the Digital Age

As you may have heard, there’s been much attention recently about data centres, both in the media and from the Alberta government. Discussions have focused on data centres’ rapid growth, the role they can play in the economy, the acceleration of technology infrastructure, and the electricity they require to operate.

The Genesee site is well positioned to potentially host a large-scale data centre. We have been in active discussions with a major provider of data centre services in North America about potentially co-locating a large data centre campus within the southeast corner of Capital Power owned land within the Genesee Mine Permit Area immediately south of the St. John’s Lutheran Church Cemetery and approximately 2 km NW of the Hamlet of Telfordville. In late March, Leduc County granted an amendment to Land Use Bylaw 7-08, Section 9.16.3 of the Genesee Power Project Overlay District to add “Information Service” as a permitted use.

The layout and configuration of the data centre campus and electrical infrastructure, which potentially would include new transmission lines, a substation and facility specific emergency backup power supply systems is still being refined.

## Connecting a Data Centre to Alberta’s Electricity Grid

In June 2024, Capital Power submitted a request to the Alberta Electric System Operator (AESO) to connect a new data centre to Alberta’s Interconnected Electricity System (AIES). When evaluating such requests, the AESO must ensure that electricity demand can be safely and reliably served – not only for new large loads, but also for existing customers and near-term forecasted growth.

In response to the recent surge in large load connection requests from prospective data centre projects, analysis is now underway to determine how much new load across Alberta can be reliably served using current and planned supply. This will directly affect the connection alternatives offered to Capital Power and other proponents of large load requests.

In May 2025, the AESO is expected to provide further clarity by publishing:

- The amount (MW) of new large loads that can be reliably served in the immediate term
- The methodology to assign that load amount to the data centres currently requesting system access
- Any Connection Process updates required to enable the assignment methodology

These details will be made available on the AESO website at [www.aeso.ca](http://www.aeso.ca) and [www.aeso.ca/grid/connecting-to-the-grid/large-load-projects](http://www.aeso.ca/grid/connecting-to-the-grid/large-load-projects)

## Project details and open houses to come

Later this year, when we have more details, we will share a project information package and host community open houses to provide information, listen to feedback and offer opportunities to ask questions about the proposed project.

# What’s a data centre? And what does it mean for Alberta?



Data centres are specialized facilities designed to house servers and other equipment needed to store, manage, and process large amounts of digital information. They are the backbone of the digital age, supporting everything from cloud computing to streaming services.

Late last year, the Alberta government launched an Artificial Intelligence (AI) Data Centres Strategy, which sets the path to securing the province’s position as the most attractive place to build artificial intelligence (AI) data centres in North America. And for good reasons, more than 10 gigawatts of potential demand for proposed data centre projects have applied to the Alberta Electric System Operator (AESO) for interconnection.

Learn more at [www.alberta.ca/artificial-intelligence-data-centres-strategy](http://www.alberta.ca/artificial-intelligence-data-centres-strategy)



## Security at Genesee

Safety and security are a top priority for Capital Power, and we diligently monitor and patrol our property at Genesee, as well as collaborate with the local RCMP detachment to report any issues or unusual activity. **We can all do our part to help prevent crime in the area.**

**If you see any suspicious activity on Capital Power property, contact our Genesee Security Office: 780-969-8505 or RCMP.**

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1200 – 10423 101 Street NW  
Edmonton, Alberta T5H 0E9



### **What is Important to You?**

If you have an idea or suggestion for the Genesee Connection Newsletter, contact Community Engagement and help us continue to provide relevant information of interest to you.

### **Contact Us**

If you have questions or comments about our operations, community engagement or our land management practices, please contact us.

### **Generating Station Reception**

780-848-8300

### **Community Engagement**

780-848-8474  
[projects@capitalpower.com](mailto:projects@capitalpower.com)

### **Manager, Reclamation & Land**

Megan Hill 780-392-5386

### **Genesee Guardhouse (24-hour Security)**

780-969-8505

### **Careers**

For more information about starting a career with Capital Power and to view current job opportunities, visit our website at [capitalpower.com/careers](http://capitalpower.com/careers). Capital Power is an equal opportunity employer.

### **Newsletter**

**Get this newsletter by email:** If you prefer to receive your copy of the Genesee Connection by email instead of hard copy, or if you no longer wish to receive this newsletter, please contact us at [projects@capitalpower.com](mailto:projects@capitalpower.com)

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