

# Genesee Connection

Hello Neighbours and Friends,

It's been a busy year as we repower the Genesee Generating Station to natural gas. As of June 2024, the Genesee Generating Station was 100% natural gas-fueled, resulting in the facility being off coal over 5 years ahead of the Alberta government mandate. After nearly 35 years of providing fuel to the facility, we ended mining operations at the Genesee Mine in December 2023. Reclamation activities at the Genesee Mine, including re-establishing wetlands, developing wildlife habitat, and transitioning portions of mine pits into end pit lakes - are underway. Read on to learn more about our proposed reclamation plans.

This transition was accomplished with the dedication and teamwork of hundreds of individuals. We're grateful for the exceptional team that has brought this project to fruition over the last several years and set us up for a long future of continued operations in Leduc County.

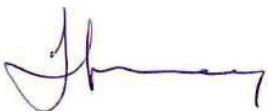
As part of the Genesee Repowering project, the facility completed simple cycle commissioning for Unit 1 on May 3, and Unit 2 on June 28. Unit 3 was transitioned to natural gas in November 2022. The Genesee 1 & 2 Repowering project continues progressing with combined cycle completion expected in Q4 2024. Once complete, it will be the most efficient natural gas combined cycle plant in Canada, capable of producing 1,338 MW of reliable baseload electricity for Alberta while reducing emissions by approximately 3.4 million tonnes annually.



The Genesee Repowering Project is located on the west side of the power plant site. Once complete, the combined cycle facility will produce 1,338 MW of cleaner, reliable baseload electricity for Alberta.

We recognize that increased traffic associated with construction and noise from commissioning activities can impact neighbouring residents and motorists who use Secondary Highway 770. We appreciate your tolerance throughout the construction and commissioning phase.

Only the best to you and yours for a safe and healthy remainder of 2024,



Sean Furey,  
Vice President,  
Thermal Operations West



## About Us

Capital Power (TSX: CPX) is a growth-oriented power producer with approximately 9,300 MW of power generation at 32 facilities across North America.

We prioritize safely delivering reliable and affordable power communities can depend on, building clean power systems, and creating balanced energy solutions for the future.

Powering Change  
by Changing Power™



## Discontinuation of Genesee Carbon Capture and Storage Project

On May 1, 2024, we announced the discontinuation of our proposed Genesee Carbon Capture and Storage (CCS) Project. Through our project development, we confirmed that CCS is a technically viable technology and a potential pathway to decarbonization for thermal generation facilities, including Genesee; however, at this time, the project is not economically feasible. Capital Power looks forward to exploring CCS at Genesee and certain assets in our North American fleet in the future as economics improve.

## Capital Power and Ontario Power Generation Partner to Assess Feasibility of Small Modular Nuclear Reactors in Alberta

In January 2024, Capital Power announced an agreement with Ontario Power Generation (OPG) to jointly assess the potential development and deployment of grid-scale small modular reactors (SMRs) to provide clean, reliable nuclear energy for Alberta. SMRs are an option for Alberta, in jurisdictions across Canada, and globally to meet the increasing need for clean electricity and energy security.

An important part of the two-year feasibility study is evaluating potential locations for SMR deployment sites. Our initial screening has highlighted three potential locations in Alberta that have certain attributes that we believe warrant a more indepth analysis as potential sites, including the Genesee Generating Station Site in Leduc County. The final site choice will be guided by a number of considerations including with respect to local stakeholder and Indigenous community support and issues of concerns. Other considerations will include, among others, regulatory licensing requirements, environmental assessments, infrastructural needs, and land accessibility.

In the coming months, Capital Power and OPG will share more information and seek feedback from area residents, landowners, businesses and Indigenous communities about opportunities, interests, concerns, and impacts of potential SMR power generation at the Genesee Site. In the event SMR power generation is determined as a viable future energy option at any of the locations being assessed as part of the current study phase, SMR technology could be developed sometime in the mid-2030's.

## Data Centres bring Unprecedented Need for Power Generation



As Capital Power continues to explore opportunities related to Genesee, we have been in discussions with various technology-focused companies who may be interested in co-locating a large data centre within the Genesee site. Data centres house many computer systems and associated components, which are used to support AI functions. More information will be available as this potential project progresses.



## Celebrating Treaty Day with Paul First Nation

Sue Cardinal, Manager of Community & Indigenous Engagement; Megan Hill, Manager of Reclamation & Land, and Michael Sheehan, Senior Advisor for Indigenous & Stakeholder Engagement, participated in Paul First Nation's Treaty Day. This event marks the anniversary of Treaty 6, which spans the land including our five operating facilities such as the Genesee Generating Station and head office. It was a privilege to be part of this significant occasion.

## Reclaiming the Genesee Mine



Five end pit lakes similar to those depicted above will be included as part of reclamation of the Genesee Mine.

The Genesee Mine has always practiced progressive reclamation and will transition to full-time reclamation with mining activities ended. The Mine will submit a final Decommissioning and Land Reclamation Plan (DLRP) to the Alberta Energy Regulator (AER) as part of the closure process in Q4 of 2024.

This year, the Mine will be recontouring and subsoiling over 400 hectares (ha) and placing topsoil on 250 ha of land. Once the land is topsoiled, it will be revegetated to agricultural use, wildlife habitat, or wetlands for end-land use. Most lands will be returned to agricultural use and five end pit lakes will be included in the landscape of the Genesee Mine.

At the end of July 2024, we have fully reclaimed 1,488 ha of land at the Genesee Mine (~ 44% of the total surface area mined). Reclamation is currently in progress on another 468 ha of land.

## 2024 Peregrine Falcon Program

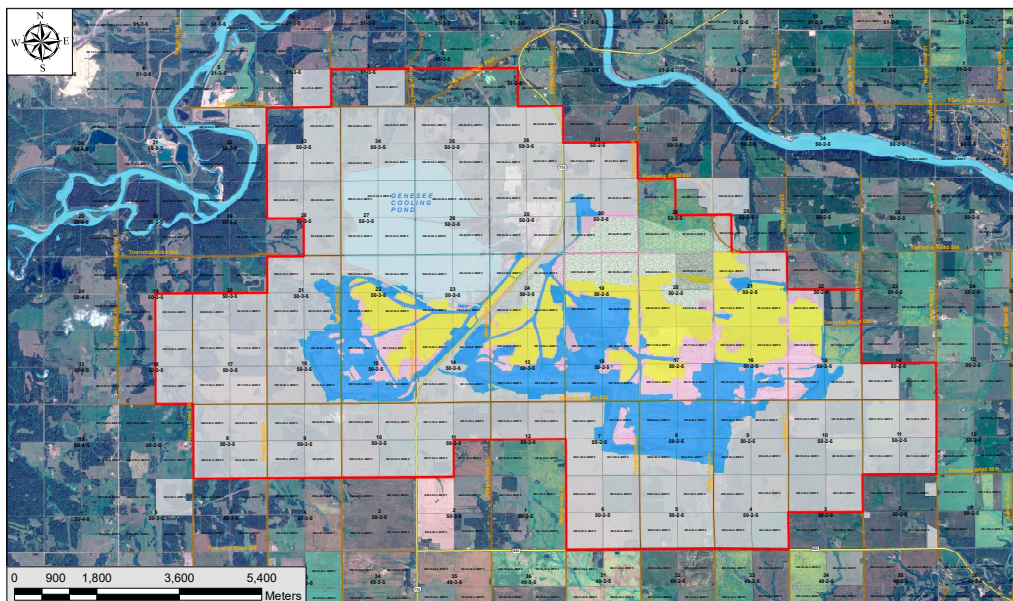
After more than 30 years of Genesee being involved in the recovery and maintenance of Peregrine Falcon populations, this year's season may have been one of the most unusual. In late April, a pair of falcons returned to the nesting box and four eggs were laid a few weeks later.

On May 31, Fish and Wildlife were notified that the male falcon hadn't been seen in two days (meaning the female couldn't leave to hunt). Intervening was deemed in the best interest of the female and her chicks, as she couldn't guard and feed them or herself on her own.

Under the direction of a Provincial Wildlife Status Biologist, the eggs and two newly hatched chicks were swapped with chicken eggs. The chicks were taken to a wildlife rehabilitation centre in Tofield and placed with foster falcon parents. Without intervention, it's unlikely they would've survived.

On June 7, the chicken eggs were removed, and Fish and Wildlife placed a 9-day old chick in the nest, as by this age it was old enough to regulate its own body temperature. By late afternoon, the mom was feeding the chick.

Unfortunately, a few days later, the female left the nest and did not return, leaving the foster chick without food. After monitoring the situation closely, Fish and Wildlife deemed intervention to be in the best interest of the chick and removed it where it was reported to be in good health as of mid-June. For a detailed timeline of events, visit [www.ab-conservation.com](http://www.ab-conservation.com)



## Warburg School students help Genesee Repowering Project stick to safety!

This spring, our Genesee Repowering team connected with the bright minds in grades 1 to 10 at Warburg School to help design a Repowering project sticker with a wildlife theme. There were many incredibly creative designs to choose from. A winner was selected from each grade as well as 1st, 2nd and 3rd overall prizes. Thank you to all who participated, and congratulations to the contest winners!



## Powering Sustainable Communities\*

We are committed to investing in the communities where we live, operate, and support local programs and organizations that create impact and build sustainable communities. Some of our recent support includes:

- Village of Warburg summer programs, volunteer & senior appreciation
- Heritage Days
- Light Up Warburg
- Thorsby High School Rodeo
- Farmers Day BBQ and Dance
- Warburg Minor Hockey Association
- Malanka Festival
- Warburg & Thorsby Christmas Elves
- 70th Anniversary Celebration of the Village of Warburg
- Boreal Avian Research & Conservation Association Genesee Bird Monitoring Project
- ALUS New Acre Project
- Warburg School Community Garden
- Bears' Lair Youth Entrepreneur Dream Camp, Enoch First Nations
- 2024 Native Hockey Alberta Provincial Championship
- Paul First Nation Treaty Day
- Alexander First Nation Traditional Pow Wow
- Paul First Nation Pow Wow
- Lac St. Anne Métis Community Association Mâmawihitowin I Summer Gathering
- Alexander Treaty Day

\*List was updated on digital copy and differs from printer distribution



We're proud to empower the communities where we live and work to achieve their climate action goals with our Community Sustainability Fund (CSF)! We launched the CSF in 2023 to support grassroots projects that enhance sustainability and benefit our communities.

The annual program provides \$300,000 with a maximum grant of \$20,000 per project! Eligible projects include renewable energy installations, sustainable food programs, tree planting, and many more. Earlier this year, the CSF supported the following local organizations:

- Warburg Hockey & Skating Arena Club for Phase 2 of the arena plant replacement
- Leduc & District Food Bank for the installation of a solar array as a renewable energy source for their operations
- Paul First Nation Community Garden for the development of a community vegetable garden to support their food security program\*

Watch for information early next year for application details for the 2025 CSF.

Visit [www.capitalpower.com/csf](http://www.capitalpower.com/csf)

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## Request support for your community initiative

Capital Power provides support in the areas of Equity & Culture, Wellbeing and Climate Action. If you are a part of a community organization that operates in the area and have events or initiatives that support these focus areas, please consider requesting support through our on-line system on our website: [www.capitalpower.com/support](http://www.capitalpower.com/support)

## Supporting Safe Hunting at Genesee

Supporting safe hunting at Genesee, we continue our hunting program that includes black powder rifles, crossbows, shotguns and archery. This program provides excellent hunting opportunities for the public in an area well known for its Whitetail and Mule Deer populations.

The program, in partnership with Hunting for Tomorrow, is open to all eligible hunters. There is no cost to participate, but there are specific rules that all participants must adhere to regarding site access.

The mentorship hunting program is also still active. This program pairs youth participants and first-time hunters with a qualified mentor to receive one-on-one safe hunting instruction and opportunities.

Public access to Capital Power's land at Genesee is only permitted through the Hunting for Tomorrow program. Genesee personnel are on the land 24-hours a day and are at risk if you hunt in unauthorized areas.

**For more information, or to apply to hunt at Genesee, contact:**

**Chuck Strong**

**chuck@acheia.com 780-466-6682**

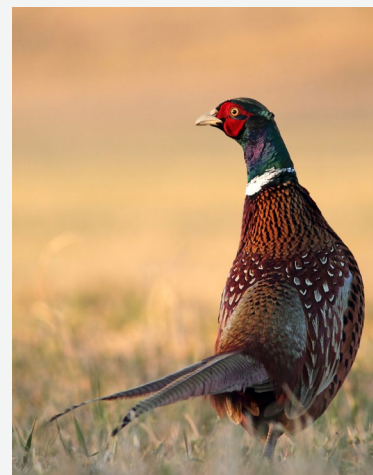
**(toll-free: 1-866-282-4342)**

**www.huntingfortomorrow.com**



## Capital Power Pheasant Release Site

Since 2018, Capital Power has provided the Alberta Conservation Association (ACA) with a pheasant release site. The pheasants are farm raised and released to create hunting opportunities and are not meant to create a local population.



This site is private property owned by Capital Power. All hunters must register online for a permit before accessing this pheasant release site.

**For more information visit [www.abconservation.com](http://www.abconservation.com).**



# Don't risk your life. Electricity doesn't discriminate.

We work hard to operate our facilities responsibly and deliver energy to our communities. Tampering with electrical equipment poses significant safety risks. Please report any suspicious activity at or near the Genesee Mine, Genesee Generating Station or any power generation infrastructure. Call Thorsby RCMP at 780-789-3950 or Crime Stoppers at 1-800-222-TIPS (8477).



## 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.**

# What's that Noise?

## Genesee Repowering Project Steam Blows

As part of the commissioning process and final testing of Capital Power's Genesee 1&2 Repowering Project there will be periods of unusual noise coming from the site as we complete steam blows for Genesee 2 later this fall. Steam blows for Genesee 1 were completed in less than 10 days in early September.

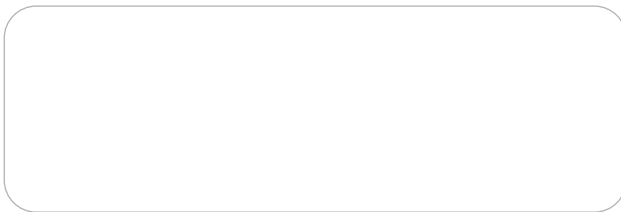
The steam blows for Genesee 2 will run 24/7 and are expected to last for a similar duration. The specific schedule will be shared with our closest neighbours and advertised in the Connect 39 weekly newspaper.

Steam blows are required to clean the steam piping and other steam related components. The process involves the continuous release of steam through the piping system, which produces noise not normally heard during operation.

We have made efforts to minimize noise and the duration of the steam blows. We recognize the steam blows may inconvenience you and appreciate your patience as we move through this short cycle of the project completion.



12th Floor EPCOR Tower  
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.

### **Genesee Contact Information**

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

PublicConsultation@capitalpower.com

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

Megan Hill 780-392-5836

### **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 [PublicConsultation@capitalpower.com](mailto:PublicConsultation@capitalpower.com)

[capitalpower.com](http://capitalpower.com)

