

Fall 2023

Genesee Connection

Hello Neighbours and Friends

We hope you're having a good summer. The Genesee site remains busy with our ongoing operations of providing reliable baseload electricity to Albertans and the construction of the Genesee Repowering Project (the "Repowering Project"). This ground-breaking Repowering Project will add more than 500 MWs of incremental capacity to Alberta's grid while significantly reducing emissions and helping to stabilize the grid. To give you an idea of scale, repowering reached its peak with 1,250 workers on site this summer.

It's a complex process to tie in the mega repowering project while operating our existing facility and not impact reliability and maintain a safe work site. It's only possible with the careful coordination, dedication and hard work of our employees and contractors. Thank you.

Earlier this year, we engaged with Leduc County, Parkland County, RCMP and Alberta Sheriffs to collaborate on road safety and traffic management, including increased enforcement on Highway 770 and 627 during peak travel periods. To reduce vehicle traffic, we also provide bus service to and from the site from various points in the Edmonton region.

In January, we welcomed delegations from our neighboring Indigenous communities in Treaty 6 for a site visit and meeting to discuss their participation in our proposed carbon capture project. The project is expected to capture up to three million tonnes of CO₂ annually from the repowered units.

In April, we hosted a meeting at the Genesee Community Hall with the Village of Warburg and Leduc County and a community open house for our proposed carbon capture project to share information with the community and address questions. Subject-matter experts from Capital Power, its environmental consultant, WSP and Enbridge were available to speak with visitors. Approximately 25 people attended the open house and were able to browse information boards highlighting the proposed technology, location and schedule.

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In May, Capital Power welcomed Avik Dey as its President and CEO. Sean Furey welcomed Avik for a site visit in June.

This summer, we said goodbye and happy retirement to Brian Vaasjo, Capital Power's President and CEO since our IPO in July 2009. The Genesee team wishes Brian the best in his well-earned retirement and thanks him for his leadership, interest, and support of the Genesee facility and team. Congratulations, Brian!

We welcomed Capital Power's incoming President and CEO, Avik Dey in May. Avik has been busy visiting many of our power generation facilities, including a visit to Genesee in June, where he toured the Repowering Project construction site and visited our team at the existing facility. During his visit, Avik commented on the scale of our operation and noted its key role in delivering reliable power to Albertans now and into the future as it transitions wholly to natural gas.

Genesee 1 & 2 Repowering Project Update

Genesee 1 & 2 are being repowered to use best-in-class combined cycle natural gas technology, which involves installing new gas-fired combustion turbines and heat recovery steam generators. Once complete, the two repowered units will provide an additional 538 megawatts of net capacity totalling 1,338 megawatts.

In late June, we announced modifications to the commissioning timelines for the repowered units due to construction delays with simple cycle commissioning of Unit 1 expected in December 2023 and Unit 2 expected in March 2024. Combined cycle commissioning is expected to begin in April 2024 (Unit 1) and June 2024 (Unit 2). The total capital costs for the Repowering Project have increased to \$1.35 billion as a result of cost escalations and increased labour costs.

As a result of the updated schedule, we expect to continue blending natural gas with coal to align with the commissioning of the repowered units in 2024, ensuring the reliability and affordability of the Alberta power grid.

Continuing to advance the Genesee Carbon Capture Project

This spring, we hosted a community open house for our proposed Genesee Carbon Capture Project, which will add decarbonization technologies to Genesee 1 & 2 once those units are repowered to natural gas. The project will capture CO₂ from the flue gas of Genesee 1 & 2 using Mitsubishi Heavy Industries Group's ("MHI") proven Advanced Kansai Mitsubishi Carbon Dioxide Recovery Process™.

We have now completed our technical assessment, including a front-end engineering and design (FEED) study in partnership with MHI and Kiewit Energy Group ("Kiewit"), with positive results. Productive discussions with government entities are ongoing, and there is strong support for the project to advance the decarbonization of Alberta's grid. There is also supportive funding through various programs. Discussions continue on a carbon assurance mechanism to de-risk our project from future government carbon legislation.

A final investment decision will be made when the carbon assurance mechanism has been negotiated. We will share another project update with the community once there is a material update and provide opportunities for project feedback.



We've revised commissioning timelines for the Genesee 1 & 2 Repowering Project due to construction delays.

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This year, we had some unplanned outages on Genesee 1 & 2 and a planned outage on Genesee 2, which have kept us on our toes. Thanks to our employees and contractors who were able to quickly mobilize, complete maintenance and safely return the units to service.

This spring, we were happy to reinstate offering subsidized first aid training for residents of the Genesee community following a three-year hiatus due to the COVID-19 pandemic. 20 people participated in the two-day course at the Genesee Hall. We also provided free first aid training for the Voyageur Canoe Brigade (see page 4). We look forward to offering first aid training for residents of the Genesee community again in spring 2024.

In August, we were thrilled to host Hon. Nathan Neudorf, Minister of Affordability & Utilities, Hon. Brian Jean, Minister of Energy & Minerals and their department officials at our Genesee Generating Station for a tour of our Repowering Project to share our perspectives about getting to net zero and to showcase the great work our people are doing to complete Canada's most efficient combined cycle natural gas units.

Wishing you a safe and healthy fall season!



Sean Furey
Vice President
Thermal Operations West
Capital Power

Paul First Nation students help Genesee Repowering Project stick to safety!

Safety is a top priority at Capital Power – especially for a multi-year construction project of this magnitude. To help keep safety top of mind, our Genesee Repowering construction team creates a new safety sticker for workers on site each year. For 2023, they engaged students from Wihnemme School on Paul First Nation, near our Genesee Generating Station, to submit sticker designs highlighting safety and sustainability as part of the “Genesee Repowering Sticker Contest”. Thirty artistic masterpieces were submitted, but three finalists stuck out from the crowd. Finalists each received a pair of skates, skate guards and an Oilers hoodie, and the grand prize winner, Daralynn, also walked away with personal art supplies!



“My sticker represents peace, love and power, which means it has the power to live!”

— Daralynn

Fun fact: “Wah Pih Toh” means “green” in Stoney!

Cheers to our Repowering construction team for their enthusiasm to collaborate with Paul First Nation on this great initiative! Excitement for the 2023 sticker spread throughout the Genesee Repowering site, and a few kind employees made anonymous donations for the grand prize – including the art supplies and hand-crafted cutting boards featuring the sticker design for the winner's mom. A donation of sporting goods for the school was also made.

The Fort Assiniboine Voyageur Canoe Brigade was a splashing success!

Nothing says 'happy bicentennial' like a 14-day canoe voyage through the mighty Athabasca River in Alberta! Teams from Canada and the U.S. came together for this annual 343 km canoe trip, an experience that quickly paddled to the top of the 150 participants' "life-changing experiences" lists. This bicentennial voyage took paddlers from Whitecourt to Athabasca, once a key fur trade route.

Events were held in Fort Assiniboine commemorating the bicentennial, including a Capital Power-sponsored BBQ for the entire canoe brigade! Craig Butler, Sr. Manager, Genesee Production and Jarrett Berezan, Plant Manager, Clover Bar Energy Centre/Genesee Mine & Production Services attended, cheering on canoers and working the grill.

As with any event we're involved in, safety was top of mind. Before any canoes hit the water, Cathy Gaetz, Genesee Contingent Worker, held first aid training for Alexis Nakota Sioux Nation high school brigade canoers, focused on water-related first aid and life-saving skills.



Supporting Indigenous Youth with Bears' Lair Entrepreneurship Camps

We're incredibly proud to partner with Bears' Lair TV to support their efforts to feed the spirit of Indigenous business across Canada. Our support is dedicated to their Youth Dream Camp program that empowers Indigenous youth to explore entrepreneurship and their creativity. For 2023, we're thrilled to sponsor four camps at Paul First Nation, Enoch Cree Nation, Alexander First Nation and Alexis Nakota Sioux Nation that neighbour our Genesee Generating Station.



BEARS' LAIR
Xwp'a7áysus t'l'a míxalh

In March 2023, we kicked off our series of Bears' Lair TV Youth Dream Camps at Paul First Nation followed by Alexis Nakota Sioux Nation this summer. Both events attracted more than 40 youth to learn business fundamentals and explore the world of small business, life as an entrepreneur, and ways to pave their path to self-reliance. We look forward to offering Youth Dream Camps at Enoch Cree Nation and Alexander First Nation late this fall.

Celebrating National Indigenous Peoples Day with our Neighbour, Paul First Nation

On June 21, celebrations took place across Canada in honour of National Indigenous Peoples Day. Sue Cardinal, Manager, Community & Indigenous Engagement and Michael Sheehan, Sr. Advisor, Indigenous & Stakeholder Engagement attended Paul First Nation's Treaty Day, the annual celebration commemorating the signing of Treaty 6. Five of our operating facilities, including the Genesee Generating Station and our head office are located on Treaty 6 territory, and it's an honour to support this special event. Sue and Michael hosted an info booth and chatted with over 150 people about our employment opportunities, the proposed carbon capture and storage project and operations.



Proud to sponsor and participate in Paul First Nation's annual Treaty Day.

Genesee featured as part of the Humanising Energy series “Preparing for a Life After Coal”

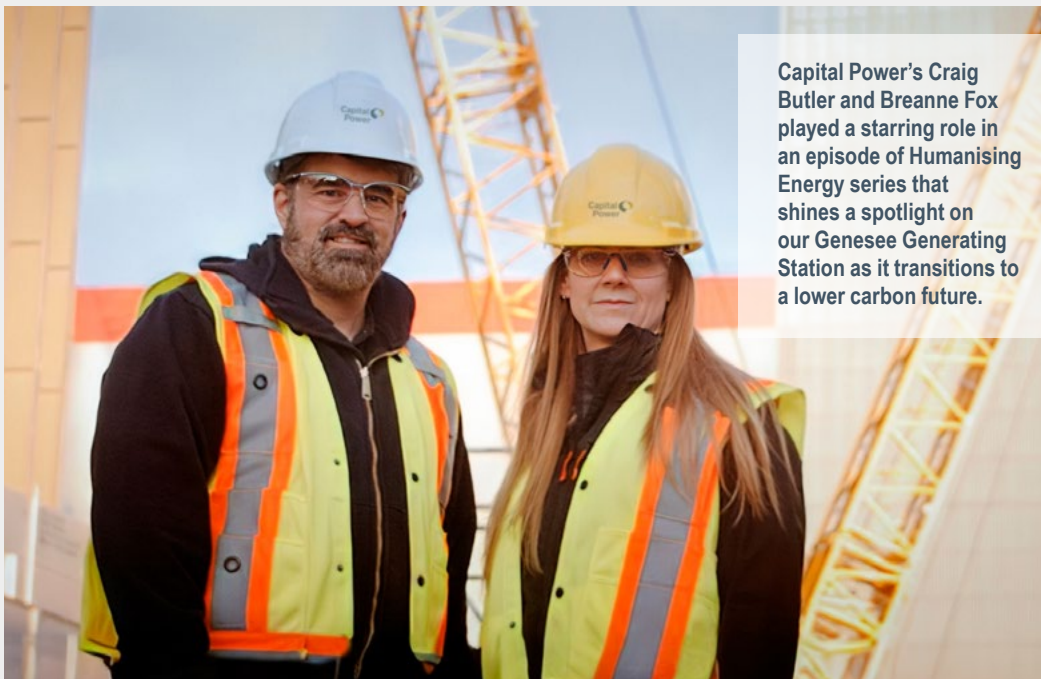


We're excited to share that our Genesee Generating Station was featured as part of the “Humanising Energy” series presented by the World Energy Council and produced by BBC Story Works Commercial Productions! We're immensely proud of Craig Butler, Sr. Manager, Genesee Production and Breanne Fox, Director of Commercial Management & Carbon Technology for sharing their personal stories and giving the world an in-depth look at the realities of energy transformation.

Thanks to our Genesee team's dedication, hard work, and resiliency, this facility has provided reliable baseload power generation for over 30 years. This exceptional group helps keep the lights on across Alberta, work tirelessly to support each other, and ensure everyone gets home safely each day. The push to net zero is

complex and requires major transformation to innovate how we create power. As we move to 100% natural gas at Genesee and coal operations cease, the number of employees will shift with many members of our family retiring or moving on. We're grateful this film shares the impacts of this reality with a global audience.

This transformation at Genesee also represents hope for a bright future. From Repowering to carbon capture, we're investing in Genesee as a hub of meaningful employment, tax revenues, and reliable energy for Alberta. These game-changing innovations are carving a path forward for near-net zero thermal generation to support renewables and secure the reliability of our grids. We're proud of Genesee's role in the future of power generation!



Capital Power's Craig Butler and Breanne Fox played a starring role in an episode of Humanising Energy series that shines a spotlight on our Genesee Generating Station as it transitions to a lower carbon future.



Watch now!

2023 Peregrine Falcon Program

In early June, we had four peregrine falcon chicks hatch at Genesee. In early July, Rick Morse banded the chicks with help from Megan Hill, Manager, Reclamation & Land.

The banding was done near the nesting box at the base of Genesee Unit 3's stack to minimize stress to the chicks, although their parents were less than thrilled!

Our fab four consisted of three females and one male-, and all were in good health.



Our Genesee Generating Station has been part of the recovery and maintenance of Peregrine Falcon populations in Alberta since the early 1990s. We've been voluntarily and informally monitoring Peregrine Falcon nest success at Genesee since 1992.

Capital Power's Megan Hill, Manager, Reclamation & Land, assists Rick Morse with banding the four peregrine falcon chicks that hatched at Genesee this summer.



Reclaiming the Genesee Mine

At the end of July 2023, we have fully reclaimed 1,420 hectares (ha) of land at the Genesee Mine (~ 41% of the total surface area mined), which includes farmland, reforested and wetland areas. Reclamation is currently in progress on another 383 ha of land. Reclamation work will continue at the mine to return the land to its natural state following the end of coal mining operations once the facility is fully off coal.

Reclamation of the Genesee Mine includes a range of planned end uses such as the creation of wetlands and watercourses.



Powering Sustainable Communities

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

- Warburg Heritage Days
- Leduc & District Food Bank
- Warburg & Thorsby Christmas Elves
- Warburg Minor Hockey
- Genesee Heritage Park
- Thorsby High School Rodeo Club
- Alexander First Nation Pow Wow
- Alexis Nakota Sioux Nation Pow Wow
- Enoch Indian Relay Races
- Paul First Nation Treaty Day and Pow Wow

Request Support

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/sustainability/community/request-for-support



Volunteers from the Boreal Avian Research & Conservation Association maintain nesting boxes on Capital Power owned-land at Genesee.

BARCA's Genesee Bird Project

We're proud to support the Boreal Avian Research & Conservation Association (BARCA) to help protect and preserve birds and their environment in the Genesee area. Through Capital Power's support, BARCA can conduct research and conservation activities focused on cavity nesting birds of prey and songbirds within the Genesee Generating Station's footprint. Their work with small owls and birds includes building, maintaining and monitoring nest boxes as well as rescuing orphaned chicks. For more information about BARCA, visit www.barcaalberta.org or follow them on Facebook.

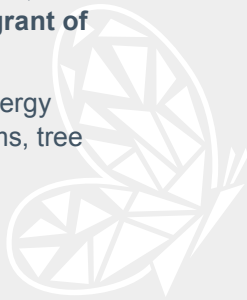
Community Sustainability Fund

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

For 2023, we're proudly offering \$200,000 through the CSF with a maximum grant of \$20,000 per project!

Eligible projects include renewable energy installations, sustainable food programs, tree planting, and many more.

For more information, visit www.capitalpower.com/csf



Apply now for a grant up to \$20,000

Community Sustainability Fund | Capital Power

capitalpower.com/csf



We're excited to partner with ALUS, through New Acre™ for a one-year pilot project in the community surrounding our Genesee Generating Station! This project is proudly sponsored through our Community Sustainability Fund.

ALUS, originally an acronym for Alternative Land Use Services, is a charitable organization with an innovative community-developed and farmer-delivered program that produces, enhances and maintains ecosystem services on agricultural lands.

The New Acre project will engage local farmers and ranchers in creating community-developed nature-based solutions, like wetlands, grasslands and windbreaks, which will benefit the area's overall biodiversity and environment.



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@aheia.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.

Visit www.abconservation.com for more information.



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

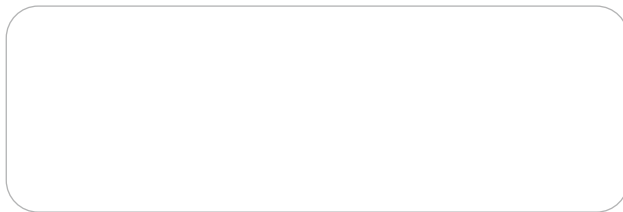
Safety and security are a top priority for Capital Power, and we diligently monitor and patrol our property at Genesee, as well as collaborate with the local RCMP detachment to report any issues or unusual activity.

With an increase in rural crime in Alberta, 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.

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 feel free to 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 or starting a career with Capital Power and to view current job opportunities, visit our website at 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 and we will remove you from our mailing list.

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