

Proposed Genesee Data Centre Project Update



DECEMBER 2025

Genesee site remains well positioned to host a large-scale data centre as part of Phase 2 of the Alberta Electric System Operator's large load plan.



Hello,

With the year winding down, we wanted to reconnect and share an update on the proposed Genesee Data Centre Project since our last newsletter back in May 2025.

In June 2024, Capital Power applied to the Alberta Electric System Operator (AESO) to connect the proposed Genesee Data Centre (a large hyperscale data centre) to Alberta's electricity grid. We did not receive a high enough allocation of megawatts under the AESO's Phase 1 interim approach to move forward with the proposed Genesee Data Centre, and as a result the Genesee Data Centre will now be considered under Phase 2.

AESO's Data Centre Approach - Phase 1

In June 2025, in response to the unprecedented requests for data centre connections and concerns about maintaining grid reliability, the AESO announced an interim methodology for connecting data centres planned before 2028 and set a 1,200 MW cap for all qualified projects in Phase 1. This cap determined which projects could proceed. Two projects elected to proceed under this limit, and Phase 1 formally concluded in early November.

Data Centre Power Requirement

Capital Power's proposed Genesee Data Centre Project may require up to 1,500 MW. To illustrate the amount of power required for large-scale data centres, the City of Edmonton has a load of approximately 1,400 MW, which is similar to the power requirements of a single hyperscale data centre facility.



Genesee Data Centre

Capital Power, through a partnership with a data centre developer, is proposing to collocate a large-scale data centre on Capital Power owned land within the Genesee Mine Permit Area. The Genesee site has grid access to reliable electricity, an existing major fiber network and available land to host a data centre.

The layout and configuration of the data centre campus and electrical infrastructure will potentially include new transmission lines, a substation and facility specific emergency backup power supply systems.

Looking Ahead: Phase 2

The Genesee Data Centre will now be considered under Phase 2 of the Large Load Integration Program. Phase 2 will look at long-term changes needed for responsibly integrating large data centres into Alberta's power system - including planning, operations, markets, and connection processes.

Pre-engagement with industry is underway, with broader consultation expected in January and February 2026. Since Phase 2 details are still being developed and we are not advancing the project immediately, Capital Power will not be hosting community open houses about the proposed Genesee Data Centre this year as we had anticipated.

As always, we appreciate your interest and want to keep you informed as the project continues to evolve. We will share updates as they become available and will host community open houses at the appropriate time.

More Information

To learn more about the proposed Genesee Data Centre Project, visit capitalpower.com/data-centres/

For details about the AESO's Large Load Integration Program, visit aeso.ca.

Wishing you and your loved ones a safe, healthy, and happy holiday season.

About Us

Capital Power (TSX: CPX) is a growth-oriented North American power producer. We prioritize delivering reliable and affordable power, building lower-carbon power systems, and creating balanced energy solutions for our energy future.

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

Our North American portfolio consists of approximately 12 gigawatts (GW) of power generation capacity at 32 facilities across North America.

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Contact Us

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

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