



Capital Power Generation Services Inc.

Genesee Generating Station Units 1 and 2 Repowering Project

March 16, 2021

Alberta Utilities Commission

Decision 26204-D01-2021

Capital Power Generation Services Inc.

Genesee Generating Station Units 1 and 2 Repowering Project

Proceeding 26204

Application 26204-A001

March 16, 2021

Published by the:

Alberta Utilities Commission
Eau Claire Tower
1400, 600 Third Avenue S.W.
Calgary, Alberta T2P 0G5

Telephone: 310-4AUC (310-4282) in Alberta
1-833-511-4AUC (1-833-511-4282) outside Alberta

Email: info@auc.ab.ca

Website: www.auc.ab.ca

The Commission may, within 30 days of the date of this decision and without notice, correct typographical, spelling and calculation errors and other similar types of errors and post the corrected decision on its website.

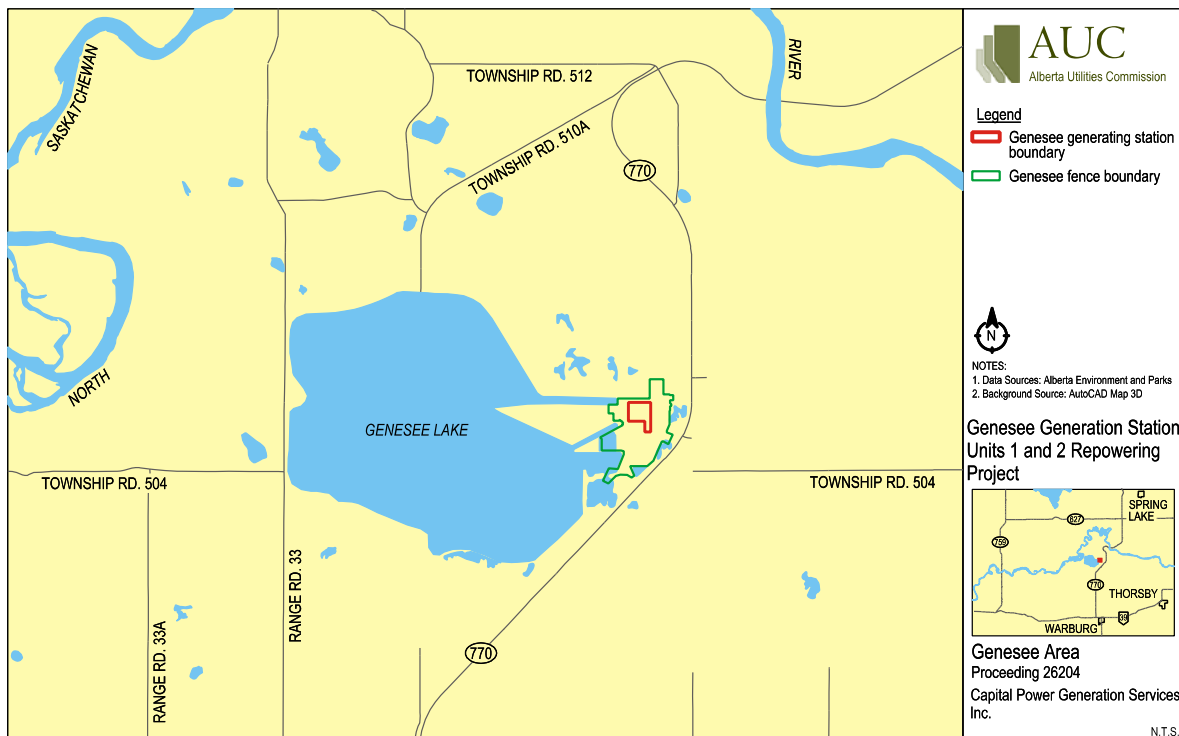
1 Decision summary

1. In this decision, the Alberta Utilities Commission approves the application from Capital Power Generation Services Inc. to alter units 1 and 2 of the Genesee Generating Station.

2 Application

2. Capital Power Generation Services Inc. filed an application with the Commission for approval to alter units 1 and 2 of the Genesee Generating Station by converting the units from dual-fuel to natural gas combined-cycle and to increase the total generation capability of each of the units from 430 megawatts to 732 megawatts. The project area is located approximately 50 kilometres southwest of Edmonton, Alta. in the Genesee area, as shown on the map in Figure 1.

Figure 1. Project map



3. Pursuant to Approval 25623-D02-2020,¹ Capital Power GP Holdings Inc. is the owner and Capital Power Generation Services Inc. is the operator (collectively referred to as

¹ Power Plant Approval 25623-D02-2020, Proceeding 25623, Application 25623-A001, June 18, 2020.

Capital Power) of the power plant designated as the Genesee Generating Station units 1 and 2, in the Genesee area.

4. Capital Power submitted with its application:
 - A noise impact assessment that concluded the project would be in compliance with Rule 012: *Noise Control*.
 - A participant involvement program, which confirmed no outstanding concerns.
 - Confirmation that there are no changes to the existing footprint of the site, so *Historical Resources Act* approval is not required.
 - Confirmation that the project does not require an impact assessment from the Impact Assessment Agency of Canada.
 - Confirmation that it had submitted an *Environmental Protection and Enhancement Act* approval amendment application to Alberta Environment and Parks (AEP).
 - Confirmation that it would use water within its existing licenced limits.
5. Capital Power stated that that it would re-use the existing steam turbine generators and install new gas-fired combustion turbines and heat recovery steam generators. Further, it stated that the alteration would be done in stages to minimize downtime which would have units 1 and 2 temporarily operate in simple cycle. Capital Power submitted that units 1 and 2 would no longer require the boilers and coal-fired equipment and that the equipment would be decommissioned.
6. Additionally, Capital Power stated that the in-service date for Unit 1 is anticipated to be September 2023 for the simple cycle, and December 31, 2023 for the combined cycle. The in-service date for Unit 2 is anticipated to be December 2023 for the simple cycle, and March 31, 2024 for the combined cycle. Further, construction activities are planned to begin as soon as July 2021.
7. The Commission issued a notice of application, and no submissions were received in response to the notice.

3 Findings

8. For the reasons outlined below, the Commission finds that approval of the project is in the public interest having regard to the social, economic, and other effects of the project, including its effect on the environment.
9. The Commission has reviewed the application and has determined that the information requirements specified in Rule 007: *Applications for Power Plants, Substations, Transmission Lines, Industrial System Designations and Hydro Developments* have been met. Additionally, the Commission finds Capital Power's participant involvement program satisfied the requirements of Rule 007 and notes that no submissions were received in response to the notice of application.

10. The simple-cycle operation of the project will last approximately 10 months. Therefore, it is not considered to be a construction activity or a temporary noise generating activity in the context of Rule 012. As such, simple-cycle operation of the project is required to comply with permissible sound levels set out in Rule 012. Based on noise prediction results submitted by Capital Power, the Commission finds that the project's simple-cycle operation and combined-cycle operation will be compliant with Rule 012.

11. The Commission acknowledges that Capital Power has filed an application with AEP for amendment to its *Environmental Protection and Enhancement Act* approval. The Commission understands that AEP will consider the air quality assessment in its independent evaluation.

12. The Commission considers the application to be in the public interest in accordance with Section 17 of the *Alberta Utilities Commission Act*.

4 Decision

13. Pursuant to sections 11 and 19 of the *Hydro and Electric Energy Act*, the Commission approves the application and grants Capital Power Generation Services Inc. the approval set out in Appendix 1 – Power Plant Approval 26204-D02-2021 – March 16, 2021, to alter and operate the Genesee Generation Station units 1 and 2 (Appendix 1 will be distributed separately).

Dated on March 16, 2021.

Alberta Utilities Commission

(original signed by)

Neil Jamieson
Panel Chair

(original signed by)

Cairns Price
Commission Member