



Electricity Generation Licence Application

Kirkland Lake Power Corp.

1. Application Type

1. (a) Application Type

☐ New ☒ Renewal

1. (b) Licence Number

EG-2003-0101

1. (c) Expiry Date

October 20, 2023

2. The Applicant

2. (a) Legal Name of the Applicant

Kirkland Lake Power Corp.

2. (b) Business Classification

☐ Sole Proprietorship ☐ Partnership ☒ Corporation ☐ Other

2. (c) Date of Formation or Incorporation

March 19, 1987

2. (d) Province/State of Formation or Incorporation

Ontario

2. (e) Country of Formation or Incorporation

Canada

2. (f) If the applicant is an individual, are they at least 18 years old?

If the applicant is an individual, the applicant must be at least 18 years old.

☐ Yes ☐ No ☒ Not Applicable

2. (g) Head Office or Business Address of the Applicant

Street Address: 30 St. Clair Avenue West, 12th Floor

City: Toronto

Province/State: Ontario

Country: Canada

Postal/Zip Code: M4V 3A1

Website: <https://www.northlandpower.com/en/assets-and-infrastructure/kirkland-lake.aspx>

Main Phone Number and Email Address

Phone Number: (416) 962-6262

Email Address: communications@northlandpower.com

2. (h) Please describe the applicant's current or intended line of business and business activities.

Participant in the IESO-Administered Markets for the provision of Electricity and other system services.

3. Licence Primary Contact

The licensee shall designate a person who will act as a primary contact with the Ontario Energy Board (OEB) on matters related to the licence.

3. (a) Licence Primary Contact

Salutation: Mr.

Last Name: Provvidenza

First Name: Salvatore

Title/Position: Senior Manager, Commercial Operations

Company: Northland Power Inc.

Phone Number: (647) 567-1646

Email Address: salvatore.provvidenza@northlandpower.com

3. (b) Is the Licence Primary Contact address the same as the Head Office or Business address?

☒ Yes ☐ No

4. Application Primary Contact

The primary contact for the licence application may be a person within the applicant's organization other than the licence primary contact noted above. An applicant may also choose to designate a consultant, lawyer, etc. to be the primary contact for the licence application. The OEB will communicate with this person during the course of the application review process, but with the licence primary contact after a licence is issued.

4. (a) Is the Application Primary Contact the same as the Licence Primary Contact?

☒ Yes ☐ No

5. Trade Names

The electricity generation licence authorizes the licensee to conduct business using the name under which the licence is held (i.e. the applicant's legal name). It also provides for the use of trade names by the licensee.

5. (a) Does the applicant intend to use trade names?

☒ Yes ☐ No

If yes, please provide a list of trade names the applicant intends to use.

KLPC

6. Applicant's Licensing Status and History

6. (a) Has the applicant, an affiliate of the applicant, or an associated entity (e.g. a partnership or limited partnership) ever been licensed by the OEB?

☒ Yes ☐ No

The *Business Corporations Act* definition for "affiliate" can be found at www.e-laws.gov.on.ca.

If yes, please provide current and expired licences.

Licensee Name	Relation to the Applicant (e.g. applicant itself, affiliate, partner, etc.)	Licence Number
Kirkland Lake Power Corp.	Applicant Itself	EG-2003-0101
Northland Power Inc.	Affiliate	EG-2003-0103

6. (b) Does the applicant, an affiliate of the applicant, or an associated entity (e.g. a partnership or limited partnership) have any other application(s) before the OEB?

☒ Yes ☐ No

If yes, please provide other applications.

Applicant Name	Relation to the Applicant	Type of Application	OEB File Number
Northland Power Inc.	Affiliate	Renewal	EGLA00025

6. (c) Has the applicant, an affiliate of the applicant, or an associated entity (e.g. a partnership or limited partnership) ever undertaken energy sector activity in any other jurisdiction within North America?

☒ Yes ☐ No

If yes, please provide information about activities in other jurisdictions.

Company Name	Relation to the Applicant	Jurisdiction	Business Activity	Name of Licensing Body and Licence/Registration No. (if applicable)
Northland Power Inc.	Affiliate	Various	Developer/Owner/Operator	See EGLA00025

6. (d) Is the applicant, an affiliate of the applicant, or an associated entity (e.g. a partnership or limited partnership) an Independent Electricity System Operator (IESO) market participant?

☒ Yes ☐ No

If yes, please provide information on the IESO market participant(s) below.

Registered IESO Organization Name	Relation to the Applicant	Participant/Program/Service
Kirkland Lake Power Corp.	Applicant Itself	Generator
Northland Power Inc.	Affiliate	Generator, Energy Trader

7. Officers, Directors and Key Individuals

7. (a) Please confirm the number of officers, directors and key individuals in your organization.

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7. (b) In the table below, identify the key individuals that are responsible for executing the following functions for the applicant: matters related to regulatory requirements and conduct, financial matters and technical matters.

Key individuals include the Chief Executive Officer, the Chief Financial Officer, other officers and directors, partners or proprietors.

NOTES:

1. List a minimum of 3 key individuals in the table below. Additional information about each key individual is required in Section 16.
2. One of the listed key individuals must sign the completed application. See Section 18 for signing authority details.

Name of Key Individual	Email	Title/Position within Applicant's Business (or identify company if not the Applicant's Business)
Calvin MacCormack	calvin.maccormack@northlandpower.com	Director and Chair for KLPC/Executive Vice President, Thermal & Utility for NPI
Stephanie Ho	stephanie.ho@northlandpower.com	Director for KLPC/Director & Divisional CFO - Thermal & Utilities for NPI
Tony Lawlor	tony.lawlor@northlandpower.com	Kirkland Lake Plant Manager/Chief Operating Engineer for NPI

8. Intended Markets and Services

8. (a) Does the applicant intend to sell electricity into the IESO-administered markets?

☒ Yes ☐ No

If yes, please provide particulars (e.g. procurement contract with the IESO).

The applicant is party to two Non-Utility Generator (NUG) Contracts with the IESO for the supply of Electricity and Related Products to IESO-Administered Markets. The applicant has Day-Ahead Commitment Process Must Offer and Minimum Capacity Factor obligations under both agreements.

8. (b) Does the applicant intend to sell ancillary services into the IESO-administered markets?

The [Ontario Energy Board Act, 1998](#), (OEB Act), defines "ancillary services" as services necessary to maintain the reliability of the IESO-controlled grid, including frequency control, voltage control, reactive power and operating reserve services.

☒ Yes ☐ No

If yes, please provide particulars.

The Kirkland Lake SCGT Plant is a registered quick-start facility, and both the Kirkland Lake SCGT and CCGT Plants offer into the Operating Reserve market.

8. (c) Does the applicant intend to sell electricity to another person?

☐ Yes ☒ No

8. (d) Does the applicant intend to sell electricity to a consumer, defined as a person who uses for the person's own consumption, electricity that the person did not generate?

☐ Yes ☒ No

If yes, the applicant may require a retailer licence. The electricity retailer application form along with information regarding when a retailer licence is required can be found on the OEB's [Apply for a licence](#) web page. If required, the electricity retailer application should be filed as soon as possible.

9. Facility Description

Please provide the number of facilities the applicant intends to generate electricity for sale from.

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Facility #1

(a) Generation Type

☒ Natural Gas ☐ Water ☐ Wind ☐ Solar ☐ Other

(b) Installed Capacity (in Megawatts)

81.00 MW

NOTE: A person who owns or operates 1 or more facilities each with a total name plate capacity of 500 kilowatts or less is exempt from the need to obtain an electricity generation licence.

(c) Number of Units

5

(d) Facility Name

NORTHLAND KIRKLAND LAKE CGS - NPKIRKLAND-G1-G5 (the "KLPC CCGT Plant")

(e) Facility Address

505 Archer Drive, Kirkland Lake, ON P2N 3M7

(f) Licensee Responsibility/Qualification Sought

☐ Owner and operator ☒ Owner only ☐ Operator only

Please provide the name of the facility operator.

Northland Power Inc.

Is the facility operator licensed by the OEB?

☒ Yes ☐ No

If yes, please provide the OEB licence number.

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Facility #2

(a) Generation Type

☒ Natural Gas ☐ Water ☐ Wind ☐ Solar ☐ Other

(b) Installed Capacity (in Megawatts)

30.00 MW

NOTE: A person who owns or operates 1 or more facilities each with a total name plate capacity of 500 kilowatts or less is exempt from the need to obtain an electricity generation licence.

(c) Number of Units

1

(d) Facility Name

NORTHLAND KIRKLAND LAKE CGS - NPKIRKLAND-G6 (the "KLPC SCGT Plant")

(e) Facility Address

505 Archer Drive, Kirkland Lake, ON P2N 3M7

(f) Licensee Responsibility/Qualification Sought

☐ Owner and operator ☒ Owner only ☐ Operator only

Please provide the name of the facility operator.

Northland Power Inc.

Is the facility operator licensed by the OEB?

☒ Yes ☐ No

If yes, please provide the OEB licence number.

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10. Facility Status

Facility #1

(a) Facility Status

☒ Existing facility in commercial service ☐ New facility ☐ Existing facility not in commercial service

When did this facility achieve commercial operation?

August 23, 1990

Is the applicant the original owner and operator?

☐ Yes ☒ No

If no, please identify previous owner and operator.

Northland Power Inc. is the operator.

(b) Please provide a list of all regulatory approvals required (e.g. environmental, municipal, etc.) and identify the status of each approval.

The following are active approvals/permits:

1. Environmental Compliance Approval

- Issuer: Ministry of the Environment, Conservation and Parks
- Approval Number: 4133-C2LRC9 (Amended)
- Approvals: Compliance with air and noise emissions standards under the Environmental Protection Act
- Issue Date: 2021-07-19

2. Certificate of Approval – Industrial Sewage

- Issuer: Ministry of the Environment, Environmental Assessment and Approvals Branch
- Approval Number: 4-0110-90-988 (Amended)
- Approvals: Establishment of sewage works for the collection, transmission, treatment and disposal of wastewater
- Issue Date: 1998-12-03

3. Permit to Take Water

- Issuer: Ministry of the Environment, Conservation and Parks
- Permit Number: 2406-BCGR8L
- Permissions: Maximum take of 7,038,720 litres/day from Murdock Creek
- Effective Date: 2019-05-27
- Expiry Date: 2029-05-27

(c) Is the generation facility under construction or extensive rehabilitation?

☐ Yes ☒ No

(d) Has the applicant secured financing?

☒ Yes ☐ No

If yes, please provide particulars.

KLPC has a debt facility with CIBC for Term financing.

Facility #2

(a) Facility Status

☒ Existing facility in commercial service ☐ New facility ☐ Existing facility not in commercial service

When did this facility achieve commercial operation?

May 17, 2004

Is the applicant the original owner and operator?

☐ Yes ☒ No

If no, please identify previous owner and operator.

Northland Power Inc. is the operator.

(b) Please provide a list of all regulatory approvals required (e.g. environmental, municipal, etc.) and identify the status of each approval.

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(c) Is the generation facility under construction or extensive rehabilitation?

☐ Yes ☒ No

(d) Has the applicant secured financing?

☒ Yes ☐ No

If yes, please provide particulars.

KLPC has a debt facility with CIBC for Term financing.

11. Facility Connection

Facility #1

(a) What is the voltage at the perimeter of the applicant's property from the output of the generation facility?

☐ 50 kV or less ☒ greater than 50 kV

NOTE:

The [OEB Act](#) defines a "transmission system" as a system for transmitting electricity, and includes any structures, equipment or other things used for that purpose. "Transmit", with respect to electricity, means to convey electricity at

voltages of more than 50 kV.

(i) Describe the existing or future transmission system from the output of the generation facility or applicant's distribution system to the connection point with the transmission network (e.g. length of line, transformers, etc.).

Generators G1 to G3 are connected to the IESO-Controlled Grid via an ~3 km 115 kV transmission line from the generation facility to Hydro One Networks Inc.'s (HONI) 115 kV K2 transmission circuit. The Connection Point is the applicant owned, HONI operated, 59K2-LC1 switch at Gull Lake.

Generators G4 and G5 are connected to the IESO-Controlled Grid via an ~3 km 115 kV transmission line from the generation facility to HONI's 115 kV D3K transmission circuit. The Connection Point is the applicant owned, HONI operated, 59D3K-LC1 switch at Gull Lake.

(ii) Does (or will) the applicant own and/or operate the transmission system?

☒ Yes ☐ No

If yes, does the applicant own and/or operate the transmission system ONLY for the purpose of conveying electricity from the generation facility to the IESO-controlled grid?

☒ Yes ☐ No

(b) Please provide a diagram demonstrating all components of the generation facility, distribution assets to connect to the customer's facility and the connection point to the customer's facility.

[klpc-ccgt-sld.pdf](#)

(c) Please identify the ownership of all components included in the diagram provided in the last question, i.e. if the components are owned by the applicant or the customer.

For the most part, the applicant owns all site components and 115 kV transmission circuits up to and including switches 59D3K-LC1 and 59K2-LC1 (excluding the line taps and supporting structures which are owned by HONI). These switches, along with switches 59D3K-7 and 59K2- 7, are operated by HONI.

HONI owns transmission circuits D3K and K2 and metering and line CT's and PT's, including associated metering components, located in two cabinets at the applicant's site for generators G1 to G5.

Facility #2

(a) What is the voltage at the perimeter of the applicant's property from the output of the generation facility?

☐ 50 kV or less ☒ greater than 50 kV

NOTE:

The [OEB Act](#) defines a "transmission system" as a system for transmitting electricity, and includes any structures, equipment or other things used for that purpose. "Transmit", with respect to electricity, means to convey electricity at voltages of more than 50 kV.

(i) Describe the existing or future transmission system from the output of the generation facility or applicant's distribution system to the connection point with the transmission network (e.g. length of line, transformers, etc.).

Generator G6 is connected to the IESO-Controlled Grid via an ~3 km 115 kV transmission line from the generation facility to HONI's 115 kV D3K transmission circuit. The Connection Point is the applicant owned, HONI operated, 59D3K-LC1 switch at Gull Lake.

(ii) Does (or will) the applicant own and/or operate the transmission system?

☒ Yes ☐ No

If yes, does the applicant own and/or operate the transmission system ONLY for the purpose of conveying electricity from the generation facility to the IESO-controlled grid?

☒ Yes ☐ No

(b) Please provide a diagram demonstrating all components of the generation facility, distribution assets to connect to the customer's facility and the connection point to the customer's facility.

[klpc-scgt-sld.pdf](#)

(c) Please identify the ownership of all components included in the diagram provided in the last question, i.e. if the components are owned by the applicant or the customer.

The applicant owns all site components and 115 kV transmission circuits up to and including switch 59D3K-LC1 (excluding the line tap and supporting structure which are owned by HONI). This switch, along with switch 59D3K-7, are operated by HONI.

HONI owns the transmission circuit D3K.

CONFIDENTIAL SECTIONS

Information filed as part of or in support of sections 12 to 16 of this application will be treated as confidential and is not available for public view.

17. Notice

The OEB is authorized, under section 4.14 of the [OEB Act](#), to collect personal information for the purpose of carrying out its duties and exercising its powers under the OEB Act or any other Act.

The information provided both on this form and attached to this form is being collected by the OEB for the purpose of determining whether the applicant is qualified to receive the licence for which it is applying.

In order to verify the information on this form and/or determine whether the applicant is qualified to receive the licence for which it is applying, it may be necessary for the OEB to collect additional information from some or all of the following sources: federal, provincial/state, or municipal governments; licensing bodies; law enforcement agencies; credit bureaus; and banks. Only information relevant to the application or the OEB's determination of the application will be collected by the OEB.

The public official who can answer questions about the collection of the information is:

Registrar

Ontario Energy Board

P.O. Box 2319

2300 Yonge Street, 27th Floor

Toronto, ON M4P 1E4

Tel: 416-481-1967 or 1-888-632-6273

Applicants are reminded that the OEB is subject to the [Freedom of Information and Protection of Privacy Act](#) (FIPPA). FIPPA addresses circumstances in which the OEB may, upon request, be required to release information that is in its custody or under its control, and generally prohibits the OEB from releasing personal information. "Personal Information" has the meaning given to it under FIPPA.