



Electricity Generation Licence Application

Cardinal Power of Canada, L.P.

1. Application Type

1. (a) Application Type

☐ New ☒ Renewal

1. (b) Licence Number

EG-2003-0121

1. (c) Expiry Date

October 19, 2023

2. The Applicant

2. (a) Legal Name of the Applicant

Cardinal Power of Canada, L.P.

2. (b) Business Classification

☐ Sole Proprietorship ☒ Partnership ☐ Corporation ☐ Other

2. (c) Date of Formation or Incorporation

April 23, 1991

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

Delaware

2. (e) Country of Formation or Incorporation

USA

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: 2930-155 Wellington St. West

City: Toronto

Province/State: Ontario

Country: Canada

Postal/Zip Code: M5V 3H1

Website: <https://www.capstoneinfrastructure.com/>

Main Phone Number and Email Address

Phone Number: 416-649-1300

Email Address: info@capstoneinfra.com

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

Electricity generation

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: Peddle

First Name: Keith

Title/Position: Plant Manager

Company: Cardinal Power of Canada, L.P.

Phone Number: 6136571400

Extension: 25

Email Address: kpeddle@capstoneinfra.com

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



Yes



No

Licence Primary Contact Address

Street Address: 170 Henry Street, P.O. Box 70

City: Cardinal

Province/State: Ontario

Country: Canada

Postal/Zip Code: K0E 1E0

Website: <https://www.capstoneinfrastructure.com/>

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

4. (b) Application Primary Contact

Salutation: Mr.

Last Name: Luedke

First Name: Hans

Title/Position: Senior Asset Manager, Operations

Company: Capstone Infrastructure Corporation

Phone Number: 416-649-1307

Email Address: hluedke@capstoneinfra.com

Application Primary Contact Address

Street Address: 2930-155 Wellington St. West

City: Toronto

Province/State: Ontario

Country: Canada

Postal/Zip Code: M5V 3H1

Website: <https://www.capstoneinfrastructure.com/>

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

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
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Cardinal Power of Canada, L.P.	Applicant itself	EG-2013-0121

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

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

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
Cardinal Power of Canada, L.P.	is the applicant	Generator

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)
David Eva	deva@capstoneinfra.com	CEO
Andrew Kennedy	akennedy@capstoneinfra.com	CFO
Patrick Leitch	pleitch@capstoneinfra.com	COO
Aileen Gien	agien@capstoneinfra.com	General Counsel and Corporate Secretary

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).

Cardinal has NUG contract with OPA (now IESO)

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

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.

1

Facility #1

(a) Generation Type

☒ Natural Gas ☐ Water ☐ Wind ☐ Solar ☐ Other

(b) Installed Capacity (in Megawatts)

184.00 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

Cardinal Power of Canada, L.P.

(e) Facility Address

170 Henry Street, Cardinal, Ontario, K0E 1E0

(f) Licensee Responsibility/Qualification Sought

☒ Owner and operator ☐ Owner only ☐ Operator only

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?

November 20, 1994

Is the applicant the original owner and operator?

☒ Yes ☐ No

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

Below is .csv list of required approvals and status.

Summary Status of Permits and Approvals Required for Operation,,,

Permit or Approval,Responsible Agency,Current Status,Comments

Certificate of Approval (CofA) Air,Ministry of Environment ("MOE"),"CofA No. 8-4016-92-006 issued 5/15/92 with subsequent minor amendments on 10/7/93, 10/27/95, 2/25/99, and 10/12/99.",Required for an air emission source in accordance with Section 9 of the Ontario Environmental Protection Act. Noise is also addressed under this CofA- Air. Covers all combustion sources at the Facility.

Permit to Take Water,MOE,"Permit 8428-BNEKV2 issued 4/18/20, expires 4/17/30.",Authorizes withdrawal of water from the St. Lawrence River for cooling purposes. Permit requires monitoring of withdrawal amounts and recordkeeping. Current permit cancels and replaces Permit No. 6230-8L2KTX issued on 8/30/02.

CofA for Industrial Sewage Works,MOE,CofA No. 4-0004-92-006 originally issued 9/1/92 and subsequently amended 11/23/93

and 8/3/00., Authorizes installation and operation of water treatment facilities.

CofA for Municipal Sewage, MOE, CofA No. 3-0655-92-006 issued 7/22/92., Provides authorization for decommissioning of an existing sewage pumping station and construction of the Henry Street Sewage Pumping Station.

Waste Generator Registration, MOE, Hazardous Waste Information Network Registration ON1912800 issued 1/4/22., Required for disposal of certain hazardous waste materials including solvents and oily rags during operations. Renewed annually.

(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.

Cardinal has a bank financing agreement with National Bank Financial.

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.).

See (c) below

(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.

[basic-plant-single-lineseptember-2017.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.

Cardinal Power (CP) connects directly to Hydro One Network Inc. (HONI), through the L1MB and L2M, 115 Kilovolt (KV) transmission circuits at 501 Kain Road in Edwardsburg Cardinal. This location is referred to as CP's Remote Switching Station, which is owned and operated by Cardinal Power Canada, LP.

CP owns and maintains 5.9 kilometers (KMs) of 115 KV overhead transmission line located on private property with appropriate easements. Also, CP owns a small Riser Station at the northern boundary of the Town of Cardinal. The Riser Station provides a transition from 115 Kilovolt overhead line to a 1 Km long 115 KV underground line from the Riser Station to CP's Main Generating Station located 170 Henry Street, Cardinal, Ontario.

The Main Generating Station consists of 115 KV gas insulated switchgear (GIS) and along with a 145 Megavolt Amperes (MVA) and a 65 MVA step down transformer from 115 KV to 13.8 KV. The 145 MVA transformer is connected to a 143 Megawatt (MW) gas turbine generator and the 65 MVA transformer is connected to a 60.5 MW steam turbine generator. The remaining 4,160 volt and 600-volt equipment owned by CP provides power for the necessary auxiliary support devices. Cardinal Power's GIS switchgear also provides electricity to Ingredion Canada Incorporated, an IESO transmission connected customer. Ingredion owns a 15 MW gas turbine generator with behind the fence metering used as load displacement, with no capability to export power. Ingredion is a producer of high fructose corn syrup, glucose, specialty starches, and corn oil. CP provides Ingredion with backup steam and compressed air.

Note: the electrical and generating equipment, as described above is outlined in the attached single line drawing (SLD).

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.