

# CarbonFree Kynoch Project

## Project Description Report

H376108-0000-840-066-0001

					
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H376108-0000-840-066-0001, Rev. 1,

## Report Disclaimer

This report has been prepared by Hatch Ltd. (Hatch) for the sole and exclusive use of CarbonFree Kynoch Ltd. (the “Client”) for the purpose of assisting the Client in making decisions with respect to the development of a proposed solar photovoltaic project and shall not be (a) used for any other purpose, or (b) provided to, relied upon or used by any third party.

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- The report being read as a whole, with sections or parts hereof read or relied upon in context;
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## Table of Concordance

The following concordance table cross-references the contents of this Project Description Report with each requirement identified in Table 1 of O. Reg 359/09 so that the required information can be easily found within this report.

Requirement per Table 1 of O. Reg 359/09	Project Description Report Section
1. Describe any energy sources to be used to generate electricity at the renewable energy generation facility.	Section 3.2
2. Describe the facilities, equipment or technology that will be used to convert the renewable energy source or any other energy source to electricity.	Section 3.5
3. If applicable, describe the class of the renewable energy generation facility.	Section 3.4
4. Describe the activities that will be engaged in as part of the renewable energy project.	Section 3.6
5. Describe the nameplate capacity of the renewable energy generation facility.	Section 3.3
5.1 i. Describe how the electricity that is proposed to be generated is intended to be used, sold or supplied to other persons. ii. Identify the duration of any agreements in respect of the use, sale or supply of the electricity. iii. Whether the nameplate capacity of the facility exceeds the quantity of electricity that is intended to be used, sold or supplied to other persons, and, if so, by how much.	Section 3.3
6. Describe the ownership of the land on which the project location is to be situated.	Section 3.1
7. Describe If the person proposing to engage in the project does not own the land on which the project location is to be situated, a description of the permissions that are required to access the land and whether they have been obtained.	Section 3.1
8. Describe any negative environmental effects that may result from engaging in the project.	Section 4, Table 4.1
9. If the project is in respect of a Class 2 wind facility and it is determined that the project location is not on a property described in Column 1 of the Table to Section 19, provide a summary of the matters addressed in making the determination.	N/A
10. If the project is in respect of a Class 2 wind facility in respect of which Section 20 applies and it is determined that the project location does not meet one of the descriptions set out in Subsection 20 (2) or that the project location is not in an area described in Subsection 20 (3), provide a summary of the matters addressed in making the determination.	N/A
11. Provide an unbound, well-marked, legible and reproducible map that is an appropriate size to fit on a 215 mm by 280 mm page, showing the project location and the land within 300 m of the project location.	Appendix A

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## 1. Introduction

CarbonFree Kynoch Ltd. (CarbonFree) is proposing to develop an up to 154-megawatt (MW) Class 3 solar photovoltaic (PV) project adjacent to Highway 554 in the unincorporated District of Algoma.

The proposed CarbonFree Kynoch Project (hereinafter referred to as the Project) is a renewable energy generation facility which will use solar PV technology to generate electricity. Electricity generated by solar PV panels will be converted from direct current (DC) to alternating current (AC) by inverters and then stepped-up (via pad-mounted inverters, medium-voltage transformers and a main substation transformer) to 230 kilovolts (kV) prior to being connected to the existing Hydro One Networks Inc. (HONI) transmission line.

The proponent intends to incorporate elements of agrivoltaics design into the Project to support and maintain the rural and agricultural economic character of the region.

The Project aims to contribute to the government of Ontario's goal of accelerating new electricity generation from renewable sources to support the province's growing energy needs. Accordingly, CarbonFree intends to enter into an agreement for the sale or supply of electricity, the quantity of which will be commensurate with the nameplate capacity of the facility.

### 1.1 Legislative Requirements

Ontario Regulation (O. Reg.) 359/09 – Renewable Energy Approvals Under Part V.0.1 of the Act, (herein referred to as the REA Regulation), came into force on September 24, 2009, and identifies the Renewable Energy Approval (REA) requirements for renewable energy generation facilities in Ontario. As per the REA Regulation (Part II, Section 4), ground-mounted solar facilities with a nameplate capacity greater than 10 kilowatts (kW) are classified as Class 3 solar facilities and require an REA.

Section 13 of the REA Regulation requires proponents of Class 3 solar projects to prepare a Project Description Report (PDR). As prescribed by Table 1 of O. Reg. 359/09, the PDR shall describe the following:

1. *Any energy sources to be used to generate electricity at the renewable energy generation facility.*
2. *The facilities, equipment or technology that will be used to convert the renewable energy source or any other energy source to electricity.*
3. *If applicable, the class of the renewable energy generation facility.*
4. *The activities that will be engaged in as part of the renewable energy project.*
5. *The nameplate capacity of the renewable energy generation facility.*

6. *How the requirement set out in Section 57.2 is satisfied, including the following:*
  - i) *A description of how the electricity that is proposed to be generated is intended to be used, sold or supplied to other persons.*
  - ii) *The duration of any agreements in respect of the use, sale or supply of the electricity.*
  - iii) *Whether the nameplate capacity of the facility exceeds the quantity of electricity that is intended to be used, sold or supplied to other persons and, if so, by how much.*
7. *The ownership of the land on which the Project Location is to be situated.*
8. *Any negative environmental effects that may result from engaging in the Project.*
9. *An unbound, well-marked, legible and reproducible map that is an appropriate size to fit on a 215 millimetre (mm) by 280 mm page, showing the Project Location and the land within 300 metres (m) of the Project Location.*

A draft of the PDR must be made available to the public, the local municipality and identified Indigenous communities at least 60 days prior to the first and final public consultation meetings in accordance with O. Reg. 359/09.

## 1.2 Purpose of Report

The PDR is one of the first Project documents prepared once the REA process commences and serves several purposes. Initial drafts of the Report were used to provide preliminary information regarding the Project to the public, indigenous groups, municipalities and other government agencies. As the REA process has progressed, the PDR has now been updated based on information obtained from various studies and data collection activities as well as preliminary planning and engineering of the Project. The final version of the PDR serves as a comprehensive overview document that summarizes all of the important information about the Project.

Section 2 of the PDR describes general information about the Project including the Project name, location and contact information. Section 3 describes the Project components, the major construction activities, operational aspects and decommissioning. Section 4 describes the potential environmental effects associated with the Project's construction, operation and decommissioning phases and the proposed mitigation measures to prevent/minimize those effects.

This PDR has been prepared in accordance with the requirements identified in Table 1 of O. Reg. 359/09, as well as the guidance provided in the Ministry of the Environment, Conservation and Parks (MECP) *Guidance for Preparing the Project Description Report as part of an application under O. Reg. 359/09* (MECP, 2023)<sup>1</sup>.

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<sup>1</sup> MECP. 2023. "Chapter 4: Guidance for Preparing the Project Description Report." *Technical Guide to Renewable Energy Approvals*. Web. July 8, 2025. < <https://www.ontario.ca/document/technical-guide-renewable-energy-approvals-0/chapter-4-guidance-preparing-project> >

## 2. General Information Requirements

### 2.1 General Information

The proposed Project is located at Highway 554 in the upper-tier municipality of the unincorporated District of Algoma and is not located within a lower-tier municipality.

The Project Location<sup>2</sup>, per the definition in the REA Regulation, includes the entire footprint of the Project, including all temporary and permanent parts of the land that will be utilized. This includes the following features:

- All areas where vegetation will be cleared.
- Temporary and permanent access roads.
- Solar panel arrays.
- Inverters/pad-mounted transformers.
- Substation yard, main substation transformer and communication tower.
- Temporary laydown area for construction.
- Fencing.
- Electrical distribution line from the substation to the interconnection point.

Seven private properties are expected to be leased by a CarbonFree-related entity from the landowners and subleased to the proponent. The total area covered by all properties is approximately 356 ha and the Project Location covers approximately 245 ha of this. The property identification numbers (PINs) for these are as follows:

- 313900024 (PCL 2880 SEC ACS SRO; LT 5 CON 1 GRASSETT; DISTRICT OF ALGOMA).
- 314090096 (PCL 5962 SEC ACS SRO; FIRSTLY: S 1/2 LT 9 CON 5 PARKINSON EXCEPT PT 4 1R1362, LT54523, PT 1 1R1579; SECONDLY: PT LT 10 CON 5 PARKINSON BEING E 1/2 OF S 1/2; DISTRICT OF ALGOMA).
- 314090008 (PCL 1462 SEC ACS; S 1/2 OF S 1/2 LT 8 CON 5 PARKINSON EXCEPT LT54523, PT 3 1R1362; DISTRICT OF ALGOMA).
- 314090032 (PCL 1091 SEC ACS; N 1/2 LT 7 CON 6 PARKINSON EXCEPT LT18803, LT52100, PT 2 1R1368, PT 1 1R1656, PT 1 1R4731; DISTRICT OF ALGOMA).

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<sup>2</sup> Project Location means, when used in relation to a renewable energy project, a part of land and all or part of any building or structure in, on or over which a person is engaging in or proposes to engage in the project and any air space in which a person is engaging in or proposed to engage in the project [O. Reg. 359/09, s. 1 (1)].

- 314090040 (PCL 631 SEC ACS; N 1/2 LT 6 CON 6 PARKINSON; DISTRICT OF ALGOMA).
- 314090238 (PCL 266 SEC AWS; PT LT 8 CON 6 PARKINSON BEING THE N 110 ACRES OF THE S 1/2 EXCEPT LT52100, PT 5 1R1368; DISTRICT OF ALGOMA).
- 314090279 (PT N1/2 OF S1/2 LT 8 CON 5 PARKINSON PTS 1 & 2 1R11752; DISTRICT OF ALGOMA).

The Project Location is presented in Appendix A as Figure 1.

Surrounding land uses found within 300 m of the Project Location include mainly undeveloped forested area but also includes a recreational vehicle trail and agricultural (primarily hay/crop) operations as well at the Little White River Provincial Park. A small area of Crown Land under the jurisdiction of the Northern Municipal Services Office is expected to be required to facilitate transmission line connection to the existing Hydro One transmission line located north of the main portions of the Project, and a Crown Land Patent is expected to be acquired. It is expected that approximately two overhead transmission line crossings of Highway 554 will be required to facilitate the Project, with the connection running adjacent to Highway 554 for approximately 2.5 km.

## 2.2 Contacts

CarbonFree Kynoch Ltd. is the proponent of the Project. Contact information is as follows:

Doug Deeks,  
Vice President - Project Development  
CarbonFree Group  
1 St. Clair Avenue West, #801, Toronto, ON, M4T 1Y5  
Tel: 647-408-9680  
Email: [Ddeeks@carbonfree.com](mailto:Ddeeks@carbonfree.com)

The proponent has retained Hatch Ltd. (Hatch) to assist in meeting the REA requirements. Contact information for Hatch is as follows:

Chris Sehl,  
Environmental Scientist  
Hatch Ltd.  
4342 Queen Street, Suite 300, Niagara Falls, ON, L2E 7J7  
Tel: 289-271-3517  
Email: [christopher.sehl@hatch.com](mailto:christopher.sehl@hatch.com)

## 2.3 Federal Involvement

No federal lands or resources will be utilized for the Project and based on the resources within the Project Location, issues under federal jurisdiction are not anticipated. The Project is not expected to be subject to either the *Impact Assessment Act* (IAA) or the *Fisheries Act*. Therefore, no federal involvement (including permits and approvals) is required.

General compliance with the *Migratory Birds Convention Act* is expected to be maintained through removing and managing vegetation outside of the breeding bird period (April to September) or where necessary completing nest sweeps ahead of vegetation clearing activities.

## 2.4 Authorizations Required

In addition to the REA, the Project may require the following permits, approvals and authorizations, as applicable.

- Federal Legislation:
  - ◆ *Migratory Birds Convention Act* - Compliance with the migratory breeding bird timing windows.
  - ◆ *Fisheries Act* – Where access roads/watercourse crossings may be required
- Provincial Legislation:
  - ◆ *Environmental Protection Act* - Renewable Energy Approval.
  - ◆ *Ontario Endangered Species Act* or *Species Conservation Act* - Permit(s) or Registration(s).
  - ◆ Ministry of Transportation (MTO) – encroachment permits and easements.
  - ◆ *Public Lands Act* – Land Use Permit, or work permit.
  - ◆ *Ontario Heritage Act* – An archaeological assessment and cultural heritage assessment were completed and the associated reports were submitted to the Ministry of Citizenship and Multiculturalism.
  - ◆ As part of the REA approval process, a Natural Heritage Assessment (H376108-0000-840-066-0002) was completed and submitted to the Ministry of Natural Resources for review.
  - ◆ As the Project falls within an unincorporated township, a local planner from the Ministry of Ministry of Municipal Affairs and Housing (MMAH) has been engaged.

## 3. Project Information

The following sections are intended to satisfy the requirements of Table 1 of O. Reg. 359/09: Section 10 – Project Description Report which directs the proponent to provide a description of the Project. Further details on the design of the Project will be provided in subsequent reports required as per O. Reg. 359/09, including the Construction Plan Report, Design and Operations Report and the Decommissioning Plan Report.

### **3.1 Land Ownership**

The Project is proposed to be constructed on privately owned land, with some transmission lines running along Highway 554. It is also expected that a high-voltage line to the point of connection with the existing transmission network will go through public lands under provincial jurisdiction. It is expected that the development will occur across seven separate parcels of land to facilitate the installation of solar panels and the transmission infrastructure required to connect to the existing grid. The private properties are expected to be leased by a CarbonFree-related entity from the landowners and subleased to the proponent. The northernmost properties will be utilized for connecting to the existing HONI transmission network (as shown in Figure 1 of Appendix A). Easements are expected to be required to support medium-voltage electrical connections over or adjacent to Highway 554 to connect various sections of the Project together. Ongoing consultation is being completed with the private landowners, Ministry of Transportation, Ministry of Natural Resources and Forestry, and Northern Municipal Services Office to determine the siting of easements and specific requirements to facilitate the Project. Current property boundaries and intersecting roadways are depicted within Figure 1 of Appendix A.

### **3.2 Energy Sources for Generation**

Solar energy will be used to generate electricity. No supplementary fuel sources are used in the generation of this renewable energy.

### **3.3 Nameplate Capacity**

The nameplate capacity of the Project is expected to be up to 154 MW. The nameplate capacity is not expected to exceed the quantity of electricity that is intended to be sold to the Independent Electrical System Operator (IESO). Technical information related to the model and capacity of PV modules can be found in Section 3.5.

For purposes of this Report, it is assumed that the Project will retain a 20-year power purchase agreement with the IESO, which may be extended to 35 years.

### **3.4 Class of the Renewable Energy Facility**

The Project will be a Class 3 solar facility. That is, the Project is ground-mounted and greater than 10 kW.

### **3.5 Project Components**

Figure 1 in Appendix A provides a conceptualized depiction of the Project including the Project Location boundaries, existing local roads, topographic contours, existing transmission line, land uses, natural features, and waterbodies on and within 300 m of the Project Location.

The main components of the Project are expected to include the following:

- Approximately 299,000 solar PV modules, each 625 watts (W) and weighing about 33 kilograms (kg), with approximate dimensions of 2,382 mm long by 1,134 mm wide by 30 mm thick.

- AC inverters of 4.4 MW that will convert the direct current supplied by the PV modules to alternating current. Thirty-six pad-mounted 4.4-MVA (megavolt-ampere), 3-phase, liquid-filled transformers that will 'step up' the voltage to 34.5 kV. Each installation will consist of a single 4.4-MW inverter and a single 4.4-MVA pad-mounted transformer.
- A gravel substation yard that will house an approximately 172 -MVA substation transformer that will 'step up' the voltage from 34.5 to 230 kV, switchgear, control and monitoring equipment, and a communication tower.
- Approximately four entrance roads from Highway 554 and several gravel interior access roads.
- A chain-link fence around the perimeter of the Project Location and a gated entrance.
- A surface water drainage system comprised of grassed swales, roadside ditches and culverts.

### 3.5.1 **Project Layout**

Upon exposure to sunlight, the solar modules convert solar radiation into DC electricity through a process referred to as the PV effect. This effect occurs when the sunlight energy is transferred to semiconductors in the modules, which creates a corresponding electric current. The PV panels will be installed on racks mounted on tracking structures. The tracking structures are expected to be supported by steel piles, driven or screwed into the ground. Where necessary, these foundations may be supported by concrete. Tracking structures are expected to be oriented to the north-south, tracking the sun movement from east to west. A typical tracker row will have up to 20 foundation posts and up to 50 PV modules connected together by electrical wiring. The racks of modules will be arranged in long rows, typically spaced about 6 m apart east to west. The DC electrical current from the solar PV modules will be transmitted across the back of the modules and through underground wires connected to combiner boxes. A typical tracker and racking setup is available in Figure 3-1. The combiner boxes allow the connection of numerous incoming wires from the racks of modules into a single outgoing electrical cable. The DC electrical current from the combiner boxes will be transmitted through underground cabling connected to a 4.4-MW inverter. Each inverter will convert the DC electrical current to AC and medium-voltage transformer will step up the voltage to 34.5 kV. The electricity, now at 34.5 kV (AC), will be transmitted through a combination of overhead and underground cabling to the main transformer situated in the substation yard, which will step up the voltage from 34.5 to 230 kV. Electricity will then flow from the substation yard through overhead electrical lines and connect to the transmission line at 230 kV.



**Figure 3-1: Typical View of PV and Tracker Setup<sup>3</sup>**

## 3.6 Project Activities

In accordance with Table 1 of O. Reg. 359/09, the Project activities involved in the construction, operation and decommissioning phases of the Project are outlined in the following sections and will continue to be refined as the REA and permitting processes continue.

### 3.6.1 Assessments and Surveys

Site investigations and targeted field surveys took place between spring and summer 2025, as appropriate for each survey type, to meet the requirements of the REA process. The results of these surveys resulted in minor changes to the Project Location as shown in the Draft Project Description Report. Site investigations and targeted field included but were not limited to the following:

- Ecological land classification.
- Wetland/water body/watercourse delineation
- Amphibian surveys.
- Pileated Woodpecker cavity searches (no timing considerations).
- Breeding bird surveys.
- Grassland bird surveys.
- Turtle basking and transect surveys.

<sup>3</sup> Example image sourced from Arctech Skyline II Catalog. PV and tracker technology used on-site may vary.

- Snag surveys.
- Bat acoustic monitoring.

### 3.6.2 Construction

It is anticipated that construction of the Project will take between 24 and 30 months, depending on time of year and various other factors. Prior to construction, the area will be surveyed, and any buried infrastructure will be located before commencing with site preparation. Construction is anticipated to start in Q1 of 2027, pending receipt of requisite permits and approvals. Project commissioning is anticipated in 2029. The approximate timeline of each of the four construction stages is provided in Table 3-1

**Table 3-1: Approximate Construction Schedule**

Activity	Approximate Timeline
<b>Site Preparation</b>	
Vegetation clearing	January 2027 – March 2027
Fencing	April 27 – June 2027
Temporary access roads and laydowns	April 27 – October 2027
Grading and drainage	April 27 – October 2027
<b>Construction &amp; Installation</b>	
Solar pile install	November 2027 – June 2028
Trackers and Racking	December 2027 – September 2028
Solar modules, combiner boxes, DC wiring	January 2028 – October 2028
MV station foundations	October 2027 – May 2028
MV station equipment delivery and installation	March 2028 – July 2028
Main transformer substation civil works	December 2027 – June 2028
Main transformer substation equipment delivery and installation	March 2028 – October 2028
Transmission line install	March 2028 – October 2028
<b>Testing &amp; Commissioning</b>	
DC testing	May 2028 – October 2028
MV commissioning and testing	October 2028 – March 2029
HV commissioning and testing	November 2028 – March 2029
<b>Site Restoration</b>	
Restoration e.g., of temporary access roads and temporary laydown areas	April 2029 to June 2029

#### 3.6.2.1 Site Preparation

Prior to site preparation, a sediment and erosion control plan will be prepared and implemented. Trees and large standing vegetation will be cleared from areas where the PV arrays will be constructed. Meadow vegetation will be left in place to the extent possible.

Locations of topsoil, timber and vegetation stockpiles will be pre-determined and not within 30 m of any identified waterbodies.

#### 3.6.2.2 *Access Road Construction*

New primary access roads will be approximately 6 m wide and will be constructed of crushed gravel. Primary access roads will have entrances from Highway 554. In addition, several smaller gravel roads, about 3 to 5 m wide each, will be constructed within the interior areas of the Project Location. Exact dimensions and locations of access roads will be finalized in consultation with the Northern Municipal Services Office. Road construction will involve vegetation clearing (if necessary) and topsoil removal prior to the placement of a granular base. Ditches and culverts will be constructed, as necessary, to maintain drainage. An existing trail through the site that is currently used by the community for recreational all-terrain vehicle (ATV) use will be relocated around the outer edge of the Project Location. Following construction, any access roads that are not required will be removed and restored by replacing the topsoil and seeding the area.

#### 3.6.2.3 *Laydown Area*

A construction laydown area will occur on the Project Location, adjacent to where the solar PV arrays are installed. The laydown area will be cleared of vegetation and topsoil will be removed where required and stockpiled for later re-use on-site during site restoration. Selected areas will then be laid with compacted gravel.

#### 3.6.2.4 *Perimeter Fencing*

A chain-link fence topped with barbed wire and access gates will be installed around the perimeter of the Project Location to prevent unauthorized access. The fence design includes a 17,900 m chain-link fence approximately 2 m high. Signage will be posted identifying the facility as a solar project on private land. The fence will be designed to comply with requirements for agrivoltaics uses on the site.

#### 3.6.2.5 *Installation of Support Structures*

Foundations and/or support structures will be required beneath transformers, inverters and PV panels. Detailed engineering for the design of the foundations and support structures are yet to be completed. However, it is expected that the pads for the transformers and inverters will be concrete slab-on-grade. The PV panels will be installed on racks mounted on tracking structures. The tracking structures are expected to be supported by steel piles, driven or screwed into the ground. Concrete may be used to support or ballast the steel piles when necessary. It is estimated that up to 132,000 piles will be installed within the Project Location to support the tracking structures and the PV panels. Foundation construction and the installation of support structures will be subject to inspection prior to the installation of PV panels and wiring.

#### 3.6.2.6 *Installation of PV Modules, Trackers and Mounting Racks*

The solar PV modules will be mounted on racks mounted on tracking structures. Each tracker is comprised of a long steel torque tube (approximately 50 to 100 m long) mounted on steel

piles driven or screwed into the ground. A simple racking system will be assembled onto each torque tube, and the PV modules will be attached to the tracking system. There will be approximately 6600 trackers, each holding approximately 50 PV modules. The modules will be hand-mounted on the racking system by installers with the help of a small mobile crane if needed. Once completed, areas beneath and immediately surrounding the solar PV modules will be seeded with graze species to promote continued agricultural use of the land (agrivoltaics).

### 3.6.2.7 *Electrical Cable Installation*

A network of underground DC cabling will be required from the termination point of the PV array to the inverters and medium-voltage transformers, which will then convert the DC electricity to AC and step up the voltage to 34.5 kV. A network of overhead and underground AC cables may be required from the inverters, to connect the PV array to the proposed substation and HONI transmission system. A simple trenching device will be used to install the underground cables, whereby a slot is opened, the cable laid, and the soil replaced. An additional 2.5 km of overhead medium-voltage transmission lines are expected to run adjacent to Highway 554 with approximately two overhead crossings of Highway 554.

### 3.6.2.8 *Substation Construction*

The substation yard is expected to be located in the northernmost section of the Project Location. Construction will include excavation of topsoil, installation of ground grid, foundation construction, construction of secondary containment, covering the area with crushed stone, installation of the substation transformer and other electrical equipment. Switchgear, protection and control equipment will be housed in a prefabricated, weatherproof building enclosure. The substation transformer will step up the voltage from 34.5 to 230 kV prior to connecting to the existing HONI 230-kV transmission line. A switching station will be installed in the areas adjacent to the Hydro One connection point.

### 3.6.2.9 *Electrical Distribution Line and Interconnection Point*

Connecting to the existing HONI 230-kV transmission line northeast of Highway 554 will require a less than 500-m overhead transmission line to be constructed between the Project boundary and the point of interconnection (POI) with the existing HONI transmission line (presented in Figure 1, Appendix A). The electrical distribution line interconnection will require access to a small, less than 500-m long portion of Crown Land to facilitate interconnection.

### 3.6.2.10 *Testing and Commissioning*

Following the installation of all electrical components, testing and commissioning will be performed prior to and following connection to the power grid. The solar modules, inverters, transformers and electrical cables will be checked for system continuity, reliability and performance. If problems or issues are identified, remedial corrections will be made prior to start-up.

### **3.6.3**      ***Operation and Maintenance***

The Project will operate year-round and generate electricity during daylight hours. The amount of power generated will depend on daily weather conditions and sufficient solar irradiation. The Project will be operated remotely and accordingly; no employees will be on site with the exception of maintenance and inspection personnel or security staff (as needed). To ensure the safety and integrity of the Project, access will be limited to Project personnel and unauthorized public access will be prevented by fences, gates and security procedures.

Operationally, there are no significant hazards involved in the operation of the Project, nor are hazardous materials stored on-site or created by the Project during its operation. The Project will not generate significant quantities of waste from its operation. An acoustic assessment has been completed (H375916-0000-846-066-0001) to assess expected noise levels during the operation and maintenance phase. Noise levels at all identified receptors are expected to be at or below the 40 dB performance limit threshold.

#### **3.6.3.1**      ***Maintenance and Inspection***

The Project solar PV modules, inverters and transformers and other electrical equipment, wiring and electrical connections will be routinely inspected, typically on a monthly basis. Any broken or malfunctioning PV modules, electrical cabling or components will be repaired or replaced by facility staff. Trash, debris and equipment parts replaced during maintenance and repair activities will be collected and properly stored in waste disposal bins. All waste collected during operation of the Project will be removed in accordance with provincial and municipal requirements.

Vegetation coverage, drainage systems and trees will be monitored and maintained regularly, typically on a monthly basis. Since suitable ground cover will be established under the PV modules, some form of vegetation abatement such as grass cutting may be required several times throughout the summer months and may extend outside of the fenced project area to maintain the existing conditions and fence line. Vegetation management will prioritize non-chemical methods, including mowing and potential livestock grazing, to maintain ground cover and support continued agricultural use of the lands through an agrivoltaics approach. No hazardous chemicals would be used for typical vegetation control and will only be considered for management of invasive species, where present. Limited and targeted use of herbicides will be applied by a licensed exterminator in accordance with the Pesticides Act, R.S.O. 1990, c. P.11 and Ontario Regulation 63/09 and will be used in accordance with the approved label for the product, along with standard mitigation measures for the herbicide. If required, water trucks will bring water to supply the water to support vegetative cover.

The Project Location, including any drainage features (e.g., grassed swales, culverts) and any sediment and erosion control measures (e.g., riprap protection, rock flow checks) will be visually inspected for any signs of erosion or sedimentation and recorded. Regular maintenance such as the cleanout of accumulated sediment and/or the removal of any debris blockage would be conducted at that time. If required, remedial works (e.g., stabilizing and/or

reseeding of identified erosion areas) and repairs to any drainage features or sediment and erosion control measures will be implemented to minimize environmental impacts.

The need to clean the solar PV modules will be determined according to local weather conditions, such as the quantity and frequency of rain and snow at the Project Location. At the very most, it is expected that the modules will require cleaning quarterly, but it is possible that cleaning the modules will not be necessary at all. If required, water trucks will bring water to supply the water required. No chemicals will be used for the cleaning of the modules.

The transformers will be visually inspected on a monthly basis and their status recorded. Any faulty equipment that could result in an oil leak will be repaired and any observed leaks will be cleaned up immediately by maintenance personnel. Spill response equipment will be left on-site or in the maintenance trucks should leaks be observed.

During winter, primary access roads will be ploughed to clear snow to maintain access of personnel to Project facilities. Under most winter conditions, snow is expected to melt due to the module heating and the tilt of the modules. Under some conditions, manual snow removal may be performed by maintenance personnel who will clear the snow using a brush attached to a long pole.

### 3.6.3.2 *Stormwater Management*

A stormwater management plan has been prepared and has been appended to the Design and Operations Report (H376108-0000-840-066-0005). The purpose of this plan is to minimize any potential negative environmental effects to the existing drainage conditions (e.g., increased runoff, erosion and sedimentation) as a result of the Project. The following mitigation measures are expected to form part of the Project's stormwater management design:

- Existing drainage patterns within the Project Location will be maintained to the extent possible and/or as required to maintain the common law drainage rights of upstream or downstream riparian landowners.
- Following construction, the entire Project Location, with the exception of the access roads, will be revegetated with native grass or other suitable ground cover to promote surface water infiltration, filter storm water runoff and to prevent erosion.
- Rainfall runoff from the solar modules, inverter building rooftops, transformer concrete pads (if not enclosed in an inverter building), interior roads and parking area will be directed to grassed or vegetated areas to promote infiltration and filtering of runoff by vegetation prior to its conveyance to on-site grassed swales.
- All transformers will use mineral oils or FR3 oils, which are non-toxic, non-bioaccumulating and readily biodegradable in the environment. All transformers will

be routinely inspected and any faulty equipment that could result in an oil leak will be repaired.

- Spill response equipment will be left on-site, and any observed leaks will be cleaned up immediately by maintenance personnel. A spill response plan can be found in the Design and Operations Report (H376108-0000-840-066-0005).

### 3.6.3.3 *Water Supply Facilities*

The Project does not require any on-site facilities to supply groundwater (wells) or surface water (ponds, watercourses) for operation of the Project. However, on-site wells may be considered for agricultural (livestock) needs. It is anticipated that water from rain and snow will be sufficient for cleaning the solar PV modules and maintaining vegetative cover on-site; if not, the proponent will contract local suppliers to provide water in tankers from off-site sources for this purpose. No chemicals will be used in the cleaning of the PV modules.

### 3.6.3.4 *Wastewater (Sewage) Facilities*

The Project will not generate any wastewater (sewage) or discharge any liquid effluent from its operation, nor does the Project require any on-site facilities for the collection, transmission, treatment or disposal of wastewater for operation of the Project; however, secondary containment for the transformer substation will be incorporated into the substation design.

During operation, sanitary facilities (e.g., permanent washrooms with a septic disposal system) are not required. If sanitary facilities are determined to be required, portable toilets, provided and serviced by a local sanitation company, will be used.

### 3.6.3.5 *Waste Disposal Facilities*

The Project will not generate significant quantities of waste from its operation. A small waste disposal bin(s) will be provided on-site to collect any trash, debris or equipment parts replaced during routine maintenance of the Project during its operation. Periodically, when required, the proponent will arrange for a licensed waste disposal company to empty the bins and haul the waste to a registered waste disposal facility off-site.

### 3.6.3.6 *Exhaust Equipment*

The Project has no facilities or equipment that will regularly discharge contaminants or pollutants to the air during normal operation of the Project.

### 3.6.3.7 *Noise Generating Equipment*

Noise generating equipment during the operation of the Project is expected to be limited to inverters and transformers adjacent to the solar PV arrays and within the substation. Minor noise may be generated by tracker motors at intervals throughout the day. An Acoustic Assessment Report (H376108-0000-846-066-0001) has been completed to review proposed locations of noise emitting equipment and confirm the applicable MECP and NPC-300 noise levels will not be exceeded during operation.

### 3.6.3.8 *Emergency Response and Communication Plan*

An Emergency Response and Communication Plan (ERCP) will be enacted to ensure the safety of personnel, the public, and the environment throughout all phases of Project development. The plan will outline clear procedures for responding to potential emergencies such as severe weather, medical incidents, spills, and equipment failures. It will also establish communication protocols with emergency services, regulatory agencies, and project stakeholders to ensure timely and effective information flow during and after any potential incidents. The ERCP will be reviewed regularly and updated as needed to reflect changes in project activities, site conditions, and regulatory requirements as development proceeds. The ERCP has been developed as part of the Designs and Operations Report (H376108-0000-840-066-0005), which outlines the exact site plan, design of the facility, how emergency communications will be handled, and details regarding operation of the facility including how environmental effects will be monitored and mitigated.

### 3.6.4 *Decommissioning*

The anticipated lifespan of the Project is approximately 25 years. At that time, the Project will be decommissioned or refurbished depending on market conditions and/or technological changes.

If the decision is to discontinue renewable energy generation, the decommissioning process would involve the following:

- Removal of the scrap metal and cabling. Where possible, these materials will be recycled, with non-recyclables taken to an approved disposal site.
- Removal of support structures and foundations; these materials will be recycled where possible.
- Cleanup and any necessary regrading.

#### 3.6.4.1 *Management of Waste and Excess Materials*

All waste and excess materials will be disposed of in accordance with applicable regulations. Waste that can be recycled under municipal programs will be recycled accordingly. Waste that requires disposal will be disposed of in a provincially licensed facility by a provincially licensed hauler. Although hazardous waste is not anticipated on site, any hazardous waste will be removed from site and disposed of in accordance with provincial requirements.

Typical waste materials and modes of disposal, recycling or reuse are listed in Table 3-2:

**Table 3-2: Typical Facility Decommissioning Waste Materials and Modes of Disposal**

Component	Disposal Method
Solar Panels	Reuse or recycle
Steel racks and mounts	Salvage for reuse or recycle for scrap
Cabling	Recycle

Component	Disposal Method
Inverter step-up transformers, inverters and circuit breakers	Salvage for reuse or recycle for scrap
Concrete foundations	Crush and recycle as granular material
Granular materials	Reuse or dispose in landfill
Geotextile material	Dispose in landfill
Oils/lubricants	Recycle
Hazardous material	Dispose through licensed hauler
Miscellaneous non-recyclable materials	Dispose in landfill

A Decommissioning Plan Report (H376108-0000-840-066-0007) has been developed and published as part of the REA application process.

## 4. Potential Negative Environmental Effects

The potential negative environmental effects that may occur during construction, operation and decommissioning phases of the Project are described in Table 4-1. The categories for the potential negative environmental effects were selected following the *Technical Guide to Renewable Energy Approvals* (MECP, 2023)<sup>4</sup> and include:

- Cultural heritage – includes protected properties, archaeological resources, and heritage resources.
- Natural heritage – includes provincial parks or conservation reserves, areas of natural and scientific interest (ANSIs) (earth science and life science), southern wetlands, wildlife habitats, and woodlands.
- Water – includes waterbodies, such as lakes, permanent streams, intermittent streams and seepage areas.
- Air, odor and dust.
- Noise.
- Local interests, land use and infrastructure.
- Provincial and local infrastructure.
- Public health and safety.

<sup>4</sup> MECP. 2023. *Technical Guide to Renewable Energy Approvals*. Web. July 8, 2025.  
< <https://www.ontario.ca/document/technical-guide-renewable-energy-approvals-0> >

- Areas protected under provincial plans and policies.
- Other resources.

Based on current knowledge of the Project, Project Location and standard/regulated environmental protection practices, proposed mitigation measures have been provided, provided as have monitoring activities to be undertaken to confirm mitigation measures are having the intended effects. Further details of the studies undertaken, potential impacts considered, and recommended mitigation and monitoring are provided in the

- Natural Heritage Assessment (H376108-0000-840-066-0002).
- Water Body Assessment Report (H376108-0000-840-066-0003).
- Construction Plan Report (H376108-0000-840-066-0008).
- Design and Operations Report (H376108-0000-840-066-0005).

#### **4.1 Preliminary Records Review and Site Visit**

A preliminary records review and site reconnaissance were completed to support early-stage planning for the Project and to identify potential environmental constraints. The records review involved an evaluation of available provincial and regional datasets to identify known and potential natural heritage features within and surrounding the Project Location. Resources reviewed included the Natural Heritage Information Centre (NHIC) Make-a-Map tool, Land Information Ontario (LIO), Crown Land Use Policy Atlas (CLUPA), and satellite imagery. This review focused on identifying the potential presence of species at risk (SAR), wetlands, woodlands, watercourses, and other significant features within at least 300 m of the proposed Project footprint, in alignment with Chapter 5 of the MECP's *Technical Guide for Renewable Energy Projects*.

Site reconnaissance and targeted surveys were completed by Hatch Biologists in spring-summer 2025 to validate the findings of the records review, provide a baseline characterization of site conditions, and inform Project design and where necessary Environmental Impact Studies (EIS). The site was assessed on foot to the extent feasible, with the reconnaissance generally extending to a 300-m buffer around the Project location. The results of the on-site studies have been documented within the Projects Natural Heritage Assessment (H376108-0000-840-066-0002) .

**Table 4-1: Potential Negative Environmental Effects**

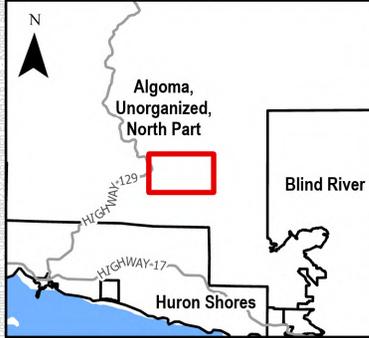
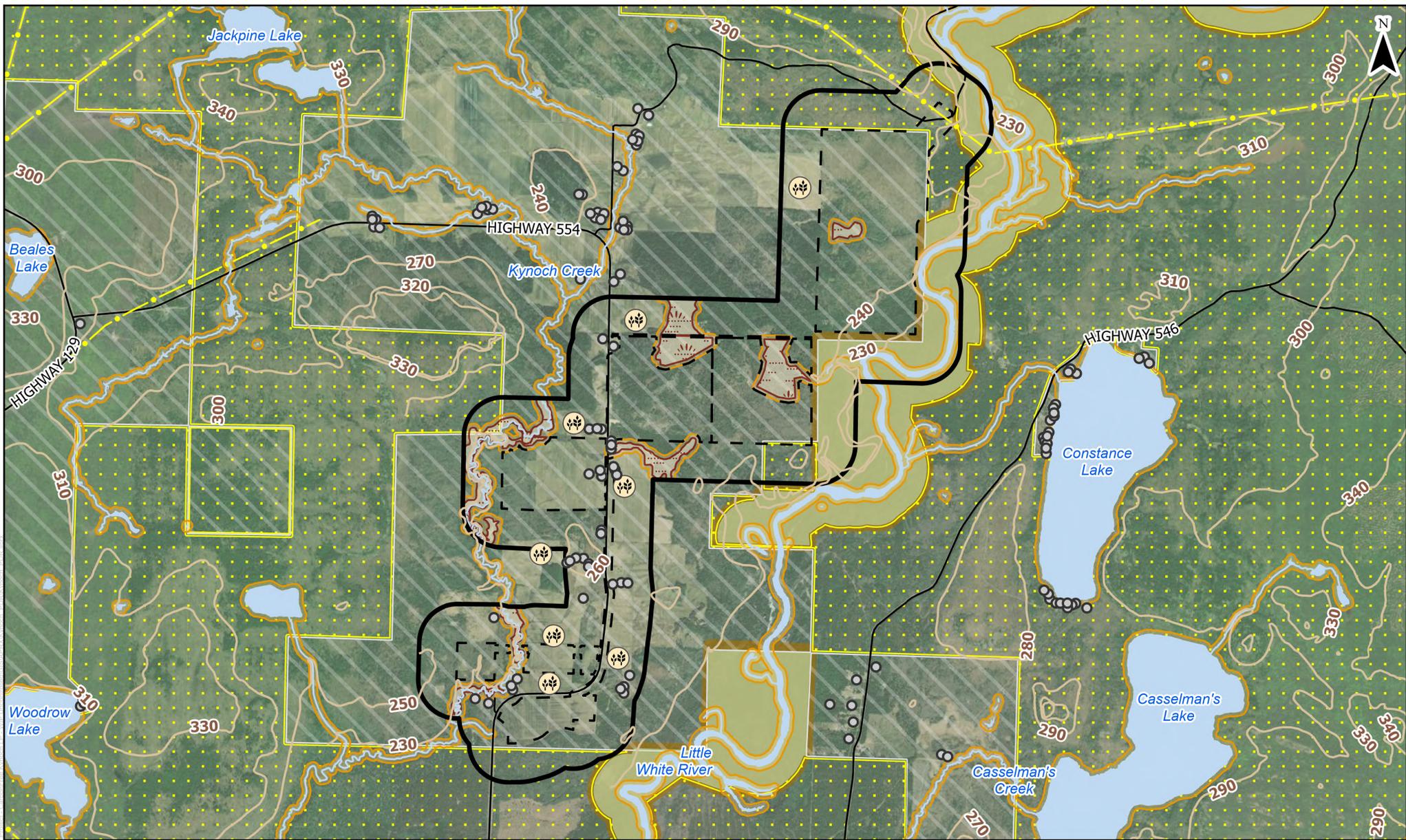
Category	Environmental and Social Component	Potential Environmental Effects (Construction, Operation and Decommissioning)	Proposed Mitigation
Cultural Heritage	Archaeological Resources	Excavations during Project construction may result in the discovery and/or disturbance of archaeological resources.	The archaeological assessment process can include between 1 and 4 stages, beginning with a determination of the potential for archaeological resources (Stage 1), followed by a resource inventory (Stage 2), archaeological site assessment (Stage 3) and if necessary, mitigation (Stage 4). A Stage 1 Archaeological Assessment has been undertaken by a licensed archaeologist at the proposed Project Location. No further archaeological work was recommended as a result of the assessment. During construction, if an artifact is found, work will stop until a licensed archaeologist has cleared the area and approved that construction can re-commence, in accordance with Ministry of Citizenship and Multiculturalism requirements.
	Protected Properties, Built Heritage and Cultural Heritage Landscapes	The proposed Project has the potential to cause negative effects to protected properties, built heritage and cultural heritage landscapes if such resources are identified in the vicinity of the proposed Project Location.	No protected properties or built heritage resources have been documented on or within 300 m of the Project Property. A site inspection was completed by an experienced cultural heritage practitioner. In consideration of heritage within the Project, the REA Checklist: consideration of Potential Heritage Resources was consulted. No criteria or potential for cultural heritage resources on the property or within the project area was identified therefore no Cultural Heritage Evaluation Report (CHER) is required.
Natural Heritage	Areas of Natural and Scientific Interest (ANSI)	No ANSIs were identified within 300 m of the Project Location.	None required.
	Wetlands	There are six unevaluated wetlands within the Project Location, whose boundaries often extend beyond 300 m. Project activities impact wetlands located within the Project Location.	The Project Location has been setback 30 m from wetlands. On Site studies were completed in 2025 to confirm wetland boundaries and if necessary, setbacks will be adjusted to prevent impacts to wetlands. Wetlands identified within or within 50 m of the Project Location are described in detail in the Project Natural Heritage Assessment (H376108-0000-840-066-0002). Sediment and erosion controls will be put in place in instances where construction activities are required within 50 m of a wetland per the Projects Sediment and Erosion Control Plan
	Woodland/Vegetation	The Project is located within areas of thickets, coniferous upland forest, mixed wood forests and agricultural lands. During construction, tree removal will be necessary to facilitate the construction of the Project.	There is potential that additional clearing surrounding the Project Location may be necessary to prevent shading solar panels by vegetation. Work areas will be flagged to limit clearing beyond this extent.
	Terrestrial Wildlife/Wildlife Habitat (including Species at Risk)	Potential loss of wildlife habitat and potential wildlife avoidance of the Project Location during construction and operation may occur as a result of disturbance.	Work areas will be clearly marked and will not extend beyond the Project Location. Studies were conducted in 2025 to identify candidate significant wildlife habitats and identify necessary setbacks and additional mitigation measures. The results of these studies are documented as part of the Natural Heritage Assessment. Additional mitigation measures are expected to include phasing vegetation removal outside of the active breeding bird and bat maternity periods (April 15 to August 31), exclusion fencing (where necessary), and setbacks from present natural heritage features (wetlands, waterbodies). The site has been evaluated for Significant Wildlife Habitats per the Natural Heritage Assessment Guide, further details regarding the evaluations will be included in the future draft of the Natural Heritage Assessment Report. Consultation is ongoing with the MECP regarding appropriate mitigations to prevent potential impacts to species at risk. This is expected to include exclusion fencing, setbacks from features, and Project phasing to avoid sensitive timing windows.
	Physiography/Topography	During construction, regrading of excavated soils and some minor alterations to local topography may occur.	Decommissioning of the Project Location will include re-grading as needed to meet the desired future land-use and as agreed to with the landowner
	Soils	Grading activities are not expected to require soil excavation or removal from the Project Location. Potential reductions in soil quality may occur as a result of accidental spills, erosion, and soil compaction during construction.	Erosion and sediment control measures will be implemented prior to and during construction and will remain in place until vegetation and soils are stabilized at the Project Location. Mitigation measures will be implemented to protect soil quality and minimize compaction during construction.

Category	Environmental and Social Component	Potential Environmental Effects (Construction, Operation and Decommissioning)	Proposed Mitigation
Water	Surface Water	Two watercourses exist within 300 m of the Project Location (Kynoch Creek and Little White River). The Project Location will be set back a minimum of 30 m from all watercourses. Accidental spills and soil sedimentation and erosion pose a risk of deteriorating surface water quality. These impacts are largely associated with construction during site preparation (clearing).	A 30-m setback will be applied from all waterbodies. Industry best management practices (BMPs) related to sediment, erosion, groundwater and stormwater management have been included within the Construction Plan (H376108-0000-840-066-0003) Design and Operations (H376108-0000-840-066-0005) and Decommissioning Plan (H376108-0000-840-066-0007) Reports, with sediment and erosion controls being implemented where watercourses are within 120 m of the Project Location. Mitigation measures may include, but not limited to, erosion and sediment control measures and maintenance of existing drainage conveyance (quality, quantity, surface water volumes/flow rates). The Design and Operations Report will also include a Stormwater Management Plan which will generally maintain drainage patterns throughout the Project Location.
	Groundwater	Accidental spills pose a risk of deteriorating groundwater quality.	Spill prevention and response measures will be put into place throughout the Project Location to minimize the likelihood and impact of accidental spills. Spill response equipment will be left on site or in maintenance trucks should leaks be observed. An Emergency Response and Communications Plan including spill response has been included in the Design and Operations Report (H376108-0000-840-066-0005).
	Aquatic Habitat	The installation of the Project may result in negative impacts to fish and fish habitat, primarily through potential erosion and sedimentation events following vegetation clearing and earth works. In addition, certain materials such as fuel, lubricating oils and other fluids associated with Project activities have the potential to negatively impact aquatic habitats in the event they are spilled.	A 30-m setback of the Project Location from all waterbodies will be applied to ensure the protection of aquatic biota and habitats. Erosion and sediment controls and spill prevention and response measures will be implemented to minimize any potential impacts to aquatic biota/habitats.
Air Quality	Air Quality, Odor and Dust	Reductions in local air quality may occur during construction and decommissioning. Fugitive dust may occur as vegetation is removed and soils remain bare, as well as through the operation of equipment and vehicle traffic. There are no anticipated impacts identified during operations.	Mitigation measures will include standard best management practices. Dust will be suppressed during construction/ decommissioning, in accordance with provincial requirements and regulations.
Noise	Noise	Temporary disturbance to neighboring residents, businesses and surrounding wildlife may occur during construction and decommissioning. The operation of inverters and transformers may result in increased ambient sound levels.	Siting of noise-emitting equipment will be the primary mitigation measure to accommodate NPC-300 standards at adjacent noise receptors. Any necessary additional mitigation or noise attenuation strategies will be developed, as required.
Local Interests, Land Use and Infrastructure	Visual Landscape	Installation of the Project will result in a change to the local landscape.	A vegetated buffer will be planted (or maintained) in selected areas around the project perimeter to minimize visual impacts.
	Land Use	The Project is proposed to be located on privately owned land which is currently utilized for agricultural activities or is currently vacant and covered by woodland and successional vegetation.	Consultation with the Northern Municipal Services Office will be undertaken to determine any studies required to support approvals. Surrounding land uses do not include livestock farming in close proximity, and therefore the Project is not expected to have any significant impacts such as stray voltage on livestock. Public consultation is ongoing to identify and resolve any concerns. All electrical infrastructure will be properly grounded to minimize the potential for stray voltage impacts on livestock. Where required, trail systems currently on the private Project lands may be rerouted during construction and operation of the Project. A small section of Crown Land may be required to be accessed to facilitate electrical connection of the Project to the existing transmission line north of the Project. A Land Use Permit or work permit will be necessary from the MNR as administered through the <i>Public Lands Act</i> .

Category	Environmental and Social Component	Potential Environmental Effects (Construction, Operation and Decommissioning)	Proposed Mitigation
	Traffic	Construction and decommissioning of the Project may result in increases in local area traffic and the potential for temporary disruption along routes used. Traffic flow is not expected to be affected throughout the operation of the Project.	Minor disruptions to traffic may occur during construction. Traffic mitigation measures such as signage, and use of traffic control workers may be required over short durations with the goal of ensuring public and worker safety and minimizing impacts to traffic flow. Mitigation would include, but not limited to, designated entrance points, speed limits, signage and other measures to control traffic and safety protocols.
Provincial and Local Infrastructure	Local Roads	Construction, operation and decommissioning of the Project will require the use of roads maintained by the Ministry of Transportation and the unincorporated District of Algoma. The use of these roads is not expected to cause adverse effects beyond normal road usage.	Where possible construction traffic will be guided through main roads to minimize wear and tear on local road infrastructure. Traffic regulations will be followed by all Project related construction or operational road users. A complaint process will be developed to identify areas of local infrastructure that may be impacted by construction road use.
Public Health and Safety	Community Safety	Construction and decommissioning of the Project will result in a risk to community and workforce safety. During operation, potential risks to public safety are limited.	Safety procedures will be followed to ensure both worker and public safety. The public will not be allowed access during construction, operations or decommissioning. Perimeter fencing and gating will be utilized to prevent unauthorized access. An Emergency Response and Communication plan is available in the Design and Operations Report (H376108-0000-840-066-0005) and will be updated as development progresses.
Areas Protected Under Provincial Plans and Policies	Protected Area	The Project is not within any provincial land-use plan areas (i.e., Greenbelt Plan, Oak Ridges Moraine Conservation Plan, Niagara Escarpment Plan, Lake Simcoe Protection Plan).	The Little White River Provincial Park is located approximately 50 m from portions of the Project Location. Generally, the Project Location and required access will be very minor or completely outside of the Provincial Park or 50 m setback.
Other Resources	Waste Management and Disposal Sites	Construction and decommissioning of the Project will likely result in the generation of recyclable material, and municipal and sanitary waste.	The disposal and proper storage of wastes and recyclables will occur in accordance with municipal and provincial requirements and regulations.
	Aggregate Resources	Consultation with the Northern Municipal Services Office has begun to understand requirements for study and protection of potential aggregate resources within the proposed Project Location.	Currently, the Project Location will not encompass areas zoned for agricultural development and is not expected to impact ongoing operations in proximity to the Project Location. The Project will not influence the availability of aggregate resources in the area. Any aggregate resources available within the Project Location will remain in place throughout the construction, operation and decommissioning of the Project.
	Airports/Aerodromes/ECCC Weather Stations	The closest airport/aerodrome is over 34 km away from the Project Location in Bruce Mines.	Currently, glare associated with the Project is not anticipated a concern. Backtracking software is anticipated to be in use during project operations to assist with mitigating potential for glare occurrence.

# Appendix A

## Figure 1: Project Location



LEGEND			
	Adjacent Agricultural Land		Watercourse
	Building		Project Location
	Contour		Study Area (300m Buffer)
	Road		Crown Land
	Transmission Line		Private Land
	Provincial Park		Provincial Park (50m Buffer)
	Setback		Waterbody
	Wetland		

NOTES:  
 1. Produced by Hatch, contains information licensed under the Open Government Licence - Ontario  
 2. Spatial referencing: NAD 1983 UTM Zone 17N

0 250 500 1,000  
 1:40,000 m

PROJECT:		CarbonFree Kynoch Project - Project Description Report		
FIGURE TITLE:		Project Location		
CLIENT:		CarbonFree Kynoch LTD		
DWG BY:	CHK BY:	FIG NO.:	REV NO.:	
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DATE:	PAGE:			
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