

Ministry of the Environment

**PART A: TO BE COMPLETED BY THE APPLICANT BEFORE SUBMITTING TO MUNICIPALITY OR LOCAL AUTHORITY**

**Section 1 - Project Description**

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|---|
| <b>1.1 - Renewable Energy Project</b>   |
| Project Name ( <i>Project identifier to be used as a reference in correspondence</i> )<br>Kingston Gardiner TS Unity Road |

|  |       |  |  |                |  |
|--|-------|--|--|----------------|--|
| <b>Project Location</b>  |       |  |  |                |  |
| Same as Applicant Physical Address? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If no, please provide site address information below)               |       |  |  |                |  |
| Civic Address- Street information ( <i>includes street number, name, type and direction</i> )  |       |  |  |                | Unit Identifier ( <i>i.e. apartment number</i> ) |
| Unity Road, Kingston, Ontario  |       |  |  |                |  |
| Survey Address ( <i>Not required if Street Information is provided</i> )   |       |  |  |                |  |
| Lot and Conc.:<br>used to indicate location within a subdivided township and consists of a lot number and a concession number.   |       | Part and Reference:<br>used to indicate location within unorganized territory, and consists of a part and a reference plan number indicating the location within that plan. Attach copy of the plan. |  |                |  |
| Lot  | Conc. | Part   |  | Reference Plan |  |
| 12   | 6     |  |  |                |  |
| Location Information ( <i>includes any additional information to clarify physical location</i> )(e.g. municipality, ward/ township)<br>City of Kingston, County of Frontenac |       |  |  |                |  |
| <b>Geo Reference (e.g. southwest corner of property)</b>   |       |  |  |                |  |
| Map Datum  | Zone  | Accuracy Estimate  | Geo Referencing Method   | UTM Easting    | UTM Northing                                     |
| NAD 83   | 18 N  | 5 to 10 m  | Georeferenced CAD file brought into ArcGIS, airphotos are orthorectified | 375176         | 4908437  |

|   |
|---|
| <b>Project Phasing (<i>outline construction, operation and decommissioning activities</i>)</b>  |
| <p>Construction - Construction of access roads, laydown area preparation, installation of underground cabling, construction of foundations and substructures for arrays, construction of concrete pad for transformer station and inverter, erection of a 44 kV distribution connection from the facility to the connection point, and site restoration of disturbed areas.</p> <p>Operation - Operation and maintenance of solar panels, including occasional cleaning with water, and associated infrastructure</p> <p>Decommissioning - Removal of all project infrastructure, and site restoration of disturbed areas</p> |

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| <b>1.2 - Environmental Context</b>   |
| Describe any negative environmental effects that may result from engaging in the project ( <i>consider construction, operation and decommissioning activities.</i> )<br>Environmental effects that may occur from this project include, but are not limited to:<br>- erosion and sedimentation into adjacent watercourses and natural areas<br>- removal of natural vegetation<br>- disturbance of local wildlife and loss of habitat<br>- noise emissions from transformers and inverters   |
| Propose early avoidance/prevention/mitigation concepts and measures.<br>- Standard sediment/erosion control measures will be used on site<br>- Impacts to areas of natural vegetation will be minimized where possible<br>- No construction of solar panels or transformer to occur within at least 30 m of the high water mark of a watercourse<br>- A spill clean-up procedure/emergency response plan will be developed for the site by the construction contractor<br>- Noise studies to be carried out in order to ensure no impact on receptors; noise barriers will be considered if required |

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**1.3 - Renewable Energy Generation Facility**

Type of Facility / Operation (select all that apply & complete all appropriate sections)

|                          |                                       |                                     |                              |
|--------------------------|---------------------------------------|-------------------------------------|------------------------------|
| <input type="checkbox"/> | Wind Facility (Land Based)            | <input type="checkbox"/>            | Biofuel Facility             |
| <input type="checkbox"/> | Wind Facility (Off-Shore)             | <input checked="" type="checkbox"/> | Solar Photo Voltaic Facility |
| <input type="checkbox"/> | Biogas Facility (Anaerobic Digesters) | <input type="checkbox"/>            | Other Describe :             |
| <input type="checkbox"/> | Biomass Facility (Thermal Treatment)  | <input type="checkbox"/>            | Class (if applicable) :      |

|                     |                         |                                       |                               |
|---------------------|-------------------------|---------------------------------------|-------------------------------|
| Name Plate Capacity | Expected Generation     | Service Area                          | Total Area of Site (hectares) |
| 10 MW               | ±14.5 GWh in first year | Kingston Gardiner Transformer Station | 34 (Project Location)         |

Provide a description of the facilities equipment or technology that will be used to convert the renewable energy source or any other energy source to electricity.

Solar photovoltaic panels will be installed on the site to convert solar energy into electricity. The exact panels to be used remain to be determined.

**1.4 – Renewable Energy Generation Activities**

Describe the activities that will be engaged in as part of the renewable energy project

The facility operates 365 days per year when sufficient solar irradiation exists to generate electricity. Typical electricity generation begins shortly after sunrise and stops shortly before sunset. Operation is remotely monitored.

The facility requires periodic visits for maintenance during the operation phase, such as checking and replacing worn parts, checking electrical connection and cleaning panels. Four (4) to five (5) visits per year are required for routine maintenance and cleaning.

**Section 2 – Supporting Documents**

| 2.1 – Requirement                  | Name of Draft documents distributed for consultation  | Date available to Municipal or Local Authority Contact |
|------------------------------------|---|--|
| DRAFT Project Description Report   | Project Description Report - Kingston Gardiner TS Unity Road Solar Energy Project; Executive Summary Report | Oct 5, 2011  |
| DRAFT Design and Operations Report | Design and Operations Report  | Oct 5, 2011  |
| DRAFT Construction Plan Report     | Construction Plan Report  | Oct 5, 2011  |
| DRAFT Decommissioning Plan Report  | Decommissioning Plan Report   | Oct 5, 2011  |
| List of other Documents            | Natural Heritage Assessment Records Review Report   | Oct 5, 2011  |
|                                    | Natural Heritage Assessment Site Investigation Report   | Oct 5, 2011  |
|                                    | Natural Heritage Assessment Evaluation of Significance Report   | Oct 5, 2011  |
|                                    | Natural Heritage Assessment Environmental Impact Study Report   | Oct 5, 2011  |
|                                    | Water Body Records Review; Water Body Site Investigation  | Oct 5, 2011  |
|                                    | Stage 1 and 2 Archaeological Assessment Report  | Oct 5, 2011  |
|                                    | Noise Study Report; Stormwater Management Report  | Oct 5, 2011  |
|                                    | Geotechnical Investigation Report; Traffic Impact Study Report; Groundwater Monitoring Scope Report         | Oct 5, 2011  |

**Location where written draft reports can be obtained for public inspection** *(physical location for viewing and the applicants project website if one is available):*

A copy of the reports will be made available on the applicants website ([www.axiopower.ca](http://www.axiopower.ca)). Copies will be made available for public inspection within the municipality; this location remains to be determined, but a notification will be provided of the release for public review. A hard copy of the reports will also be provided to the municipality for their review.

### Section 3 – Applicant Address and Contact Information

|  |                 |   |   |                        |
|--|-----------------|---|---|------------------------|
| <b>3.1 - Applicant Information</b> <i>(Owner of project/facility)</i>  |                 |   |   |                        |
| Applicant Name <i>(legal name of individual or organization as evidenced by legal documents)</i><br>Axio Power Canada Inc.                     |                 |   | Business Identification Number<br>1809981                   |                        |
| Business Name <i>(the name under which the entity is operating or trading - also referred to as trade name)</i>                                |                 |   | <input checked="" type="checkbox"/> same as Applicant Name  |                        |
| Civic Address- Street information <i>(includes street number, name, type and direction)</i><br>c/o Axio Power Canada Inc., 945 Princess Street |                 |   | Unit Identifier <i>(i.e. apartment number)</i><br>Suite 252 |                        |
| Survey Address <i>(Not required if Street Information is provided)</i>   |                 |   |   |                        |
| Lot and Conc.:<br>used to indicate location within a subdivided township and consists of a lot number and a concession number.                 |                 | Part and Reference:<br>used to indicate location within an unsubdivided township or unsurveyed territory, and consists of a part and a reference plan number indicating the location within that plan. Attach copy of the plan. |   |                        |
| Lot  | Conc.           | Part  | Reference Plan  |                        |
| Municipality<br>Kingston   | County/District | Province/State<br>Ontario   | Country<br>Canada   | Postal Code<br>K7L 3N6 |