ONTARIO POWER GENERATION

LENNOX SOLAR PROJECT

AUGUST 20, 2015

Project Overview

SunEdison Canadian Construction LP (the Qualified Applicant) and Ontario Power Generation Inc. (OPG) are proposing to design, build and operate up to a 40 megawatt (MW) Solar Energy Project at the existing OPG Lennox Generating Station (GS) site, and additional lands it owns in the Town of Greater Napanee, Ontario.

The Lennox GS is located on land on Lake Ontario adjacent to the corner of Loyalist Parkway (Hwy 33) and Hwy 21. Solar panels are proposed to be located within six areas (which are approximately 81 hectares/200 acres in total size). OPG is the owner of these lands.

Solar power captures the sun's energy to generate electricity. Photovoltaic (PV) panels generate no greenhouse gas emissions, pollutants or noise.

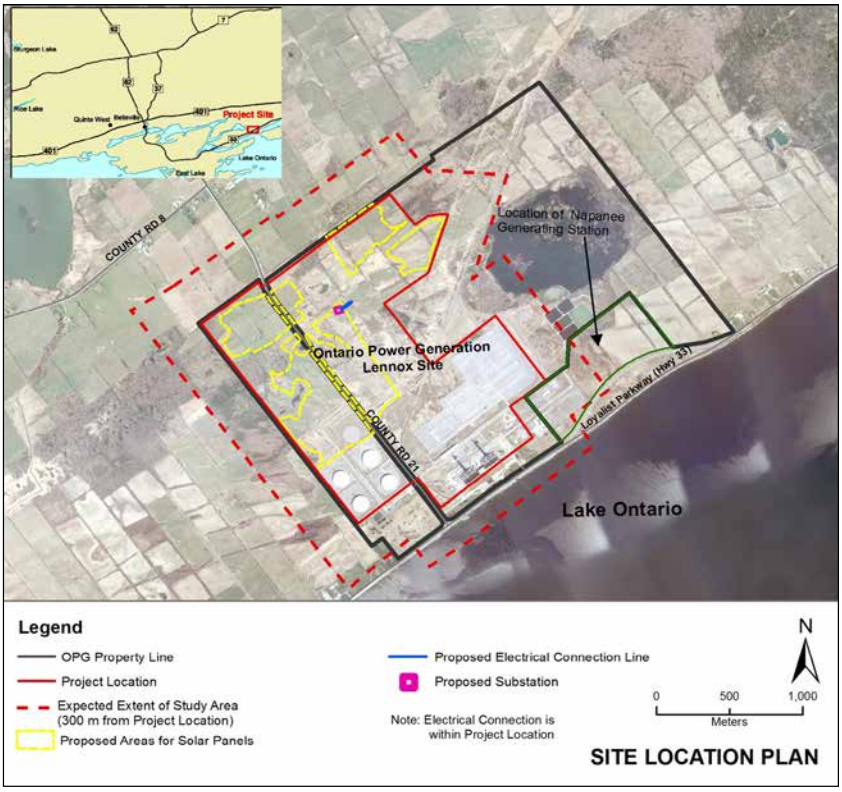
Project Activities

The key activities related to the Lennox Solar Project include:

Construction: Planned to commence in 2017 and last for approximately two years. General construction activities include site preparation, solar panel installation, and electrical collection system and connection.

Operation: Projected to commence in 2018-2019 based on current schedule and operate for a 20-year period (with proper maintenance, project could continue to operate for an additional 10 or more years). Equipment will be monitored remotely and qualified personnel will be available to complete regular preventative maintenance work.

Decommissioning: Process involves the removal of all Project components and restoring the land to an acceptable condition for its future use. Decommissioning activities include removal of scrap metal and cabling for recycling, removal and disposal of non-recyclable material to approved disposal sites, removal of industrial waste to be categorized and disposed of in compliance with regulatory requirements and restoring the Project Location for future land uses.



Project Components

Major equipment and infrastructure associated with the Lennox Solar Project are described below. Note that all electrical equipment will meet Electrical Safety Authority and Ontario Electrical Safety Code requirements. The Project components include:

- Arrays of solar photovoltaic (PV) panels with the cumulative capacity to generate up to 40 MW power, mounted to racking and anchored to the ground or foundations;
- Electrical inverters to convert DC electricity generated by the solar panels to AC;
- Intermediate step-up transformers, which will be connected to a main transformer prior to interconnection to the provincial grid;
- Electrical cables to connect all the panels and inverters and transformers;
- Site drainage and access roads;
- Weather stations;
- Enclosures for electrical equipment (e-houses);
- Security fencing around the Project Site; and
- During construction, temporary construction laydown area and facilities (e.g., office trailers, portable toilets, etc.).

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Large Renewable Procurement

The Lennox Solar Project will be submitted into the Independent Electricity System Operator (IESO)/ Ontario Power Authority (OPA) Large Renewable Procurement (LRP) I request for proposal process. The IESO/OPA is expected to award contracts to successful projects at the end of 2015.

Potential Environmental Effects

We are committed to studying and mitigating potential environmental effects of constructing, operating and decommissioning a solar facility. We welcome any comments, questions or concerns regarding potential environmental effects. As part of our environmental commitment, the following studies will be completed:

Cultural Heritage and Archeological Assessments:

There are no known heritage sites on the Project Site, but a cultural heritage and archaeological assessment will be carried out in accordance with the Ontario Heritage Act.

Natural Heritage Assessment:

There are no areas of natural and scientific interest, provincial parks or conservation areas located within 50 metres of the Project Location. If our studies confirm any natural features within 120 metres of the Project Location an Environmental Impact Study may be required.

Water Body Assessment:

We will identify potential surface water features and assess any negative environmental effects of the project on the water bodies.

Screening of Potential Environmental Effects:

We will study potential environmental effects, including air, odour and dust emissions, noise emissions; sewage and stormwater management concerns; local interests, land use, resources and infrastructure; public health and safety; wetlands and woodlands; and water bodies.

We Want To Hear From You!

We are committed to Aboriginal and public consultation throughout the Renewable Energy Approvals process. We would be pleased to receive any comments,concerns or questions.

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