

WELCOME!

Thank you for attending the First Public Meeting Under the Renewable Energy Approval (REA) Process for the Barlow Solar Energy Centre!

We are here to share new information about this clean, renewable energy project with you. Keep in mind that we are still completing various studies and reports, as well as project design. Today's intent is to collect additional input from the community to incorporate into our design.

Please review the display boards and feel free to ask us any questions you may have.

We want to hear from you!

Please complete a comment form to share your feedback! If you would like to be added to the Project mailing list, please sign up at the front desk.

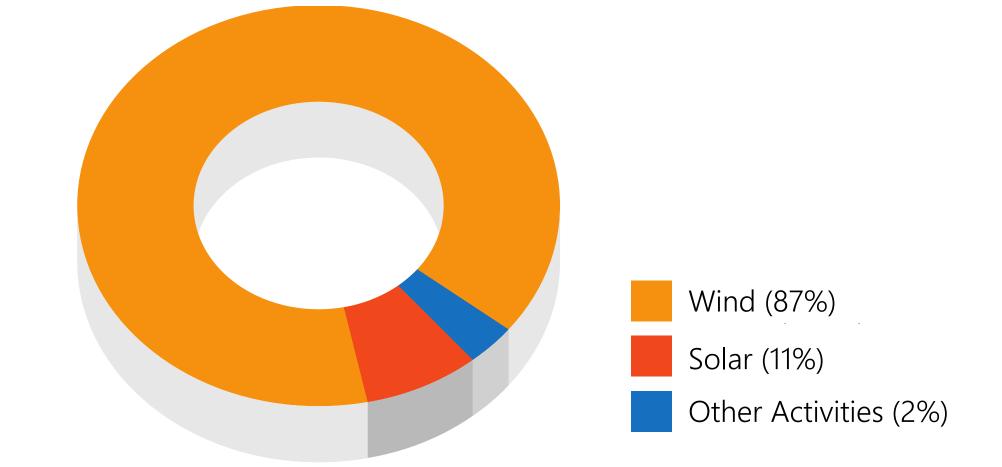
EDF EN

ALEADER IN RENEWABLE ENERGY

Among the Top 10 Global Players

GENERATION ACTIVITY

- 8 989 MWgross installed
- 1620 MW
 gross under construction*



10.4 billion kWh
 of green electricity generated in 2015

COMPLEMENTARY ACTIVITIES

- 3 201 MW
 developed, built and commissioned
- 14 323 MW
 in operations and maintenance*

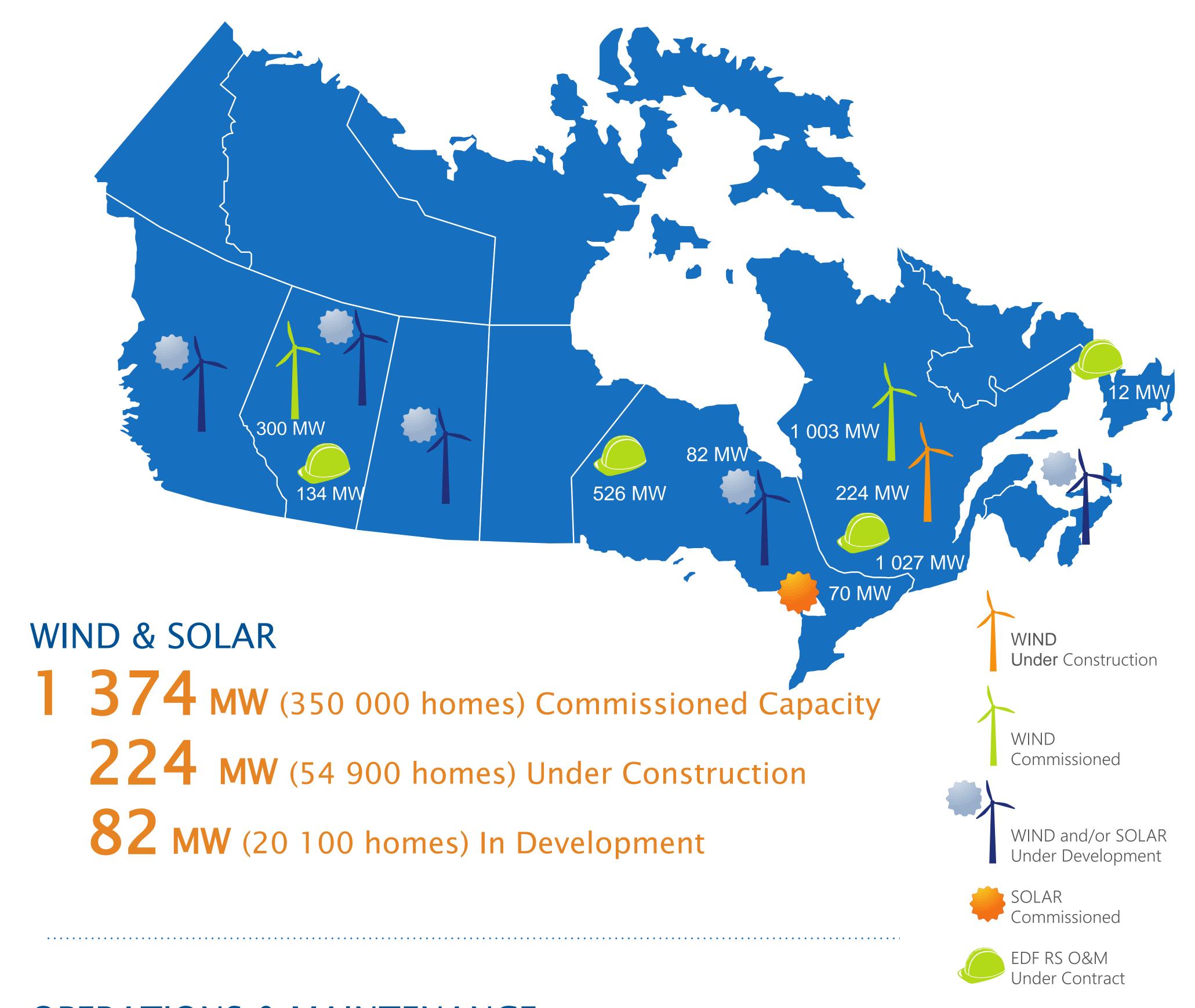
21 countries throughout North America, South America, Europe, Africa, the Middle East, and India

> 3 000 employees

^{*} For own account and for third-parties

EDF EN CANADA

1600+ MW
OF WIND
AND SOLAR
ACROSS
CANADA



OPERATIONS & MAINTENANCE

1 173 MW Wind526 MW Solar

>\$3.5 billion invested in Canada since 2008



PROJECT OVERVIEW

PROJECT NAME: Barlow Solar Energy Centre

PROJECT OWNERS: EDF EN Canada and the Algonquins of Pikwakanagan First Nation

HOST MUNICIPALITIES: Township of South Stormont and City of Cornwall

RENEWABLE FUEL: Non-Rooftop Solar

CONTRACT CAPACITY: 10 MWac

PROPOSED CONNECTION POINT

Located within the City of Cornwall, on an existing distribution line along Power Dam Drive, about 600 metres east of the Site near the intersection of Cornwall Centre Rd. and Power Dam Dr.

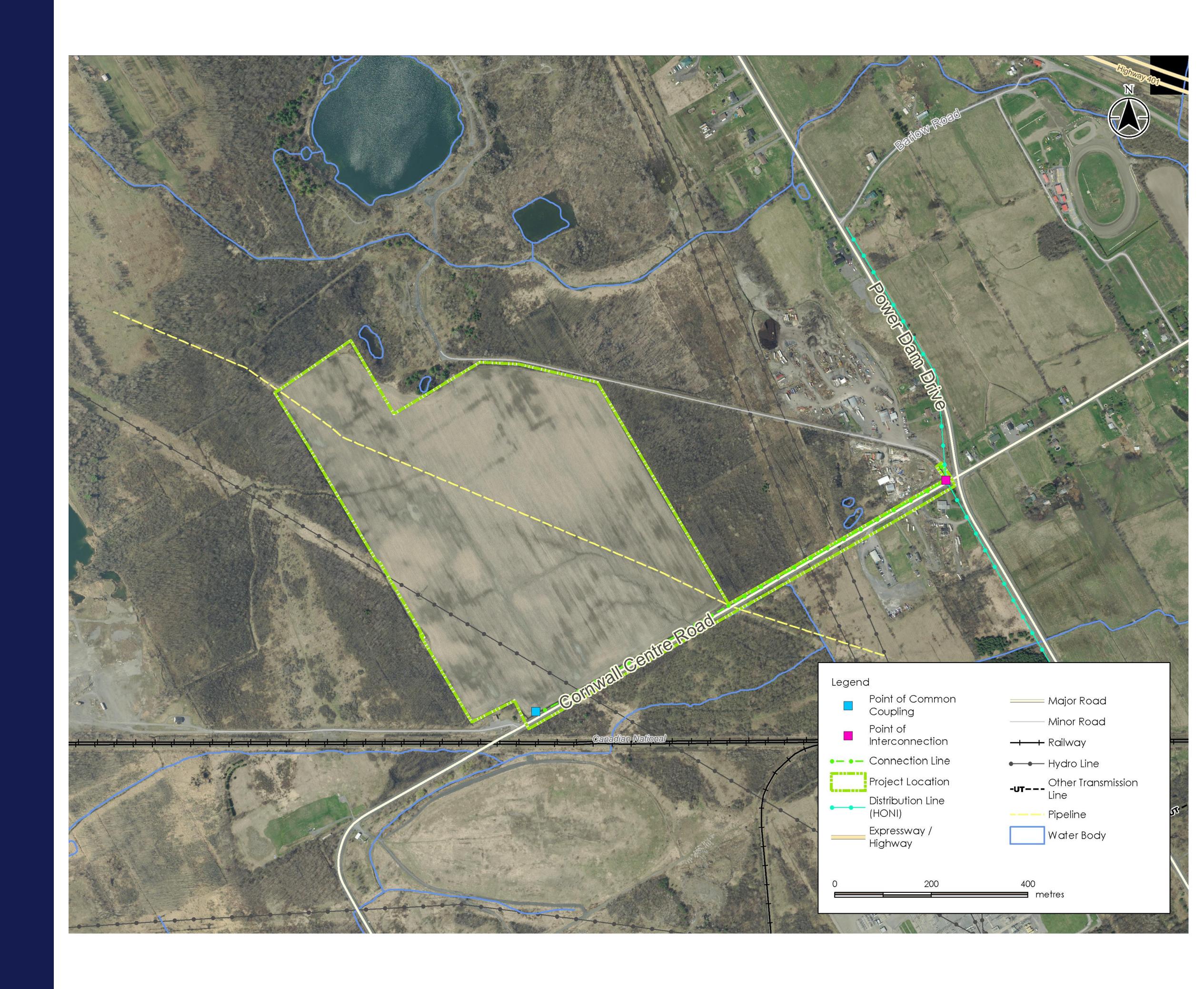
CONNECTION LINE

The Connection Line will run approximately 900 m eastward along Cornwall Centre Rd., using the road allowance belonging to the City of Cornwall, from the Site to the Connection Point.



PROJECT LOCATION

Located on 94 acres of privately owned land, in the Township of South Stormont and the City of Cornwall.



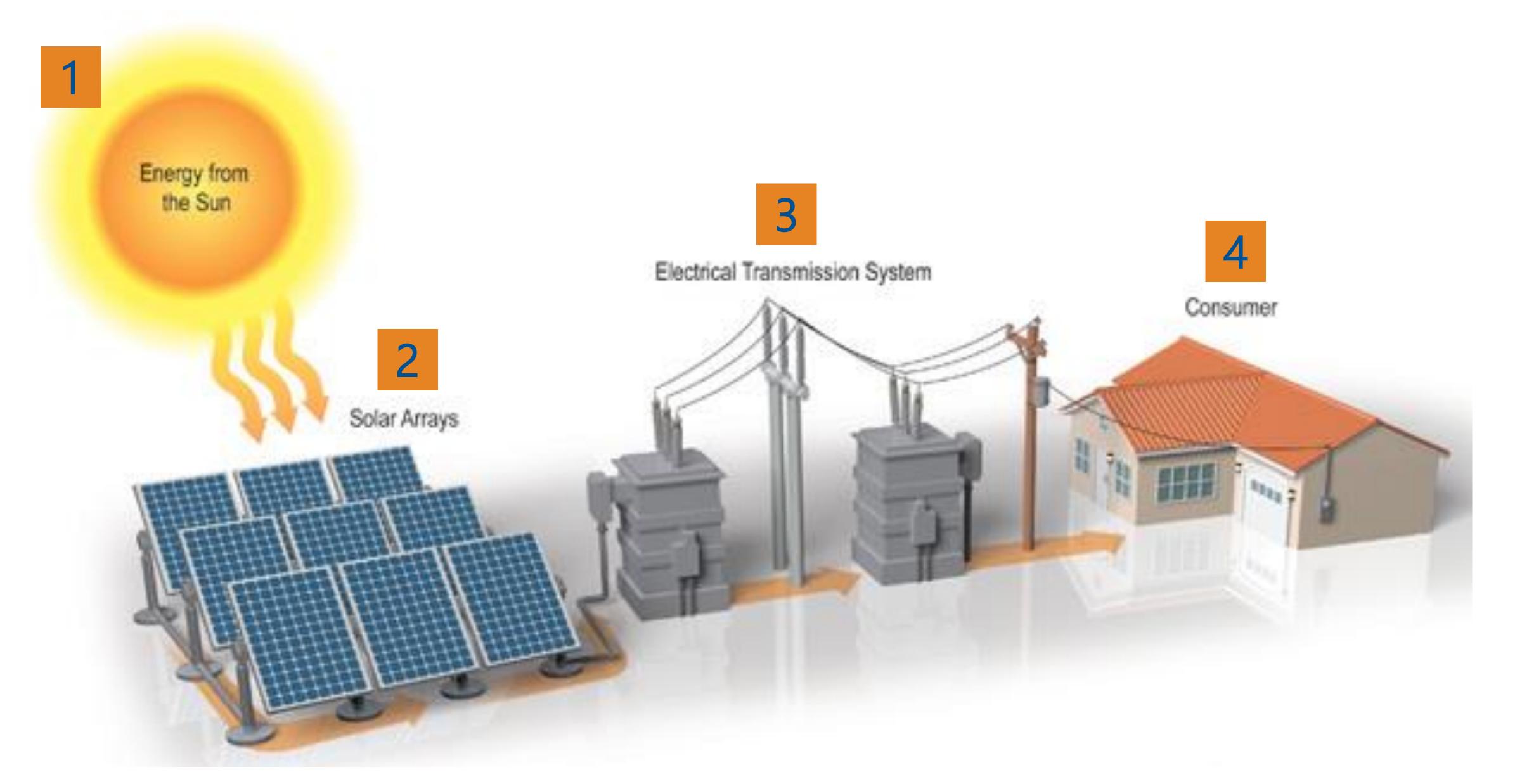


PRELIMINARY SITE PLAN



Final locations for Project infrastructure will be considered through public consultation and engineering / environmental studies.

SOLAR ENERGY: HOW DOES IT WORK?



- 1 Energy from the sun falls onto the earth's surface each day in the form of sunlight.
- The sunlight is absorbed by the solar panels, converting sunlight into electricity.
 - Solar cells are small, square-shaped silicon semiconductors. Each solar cell is connected into a network of many other solar cells to create a PV (photovoltaic) module or panel. A solar facility is comprised of thousands of panels.
- The absorbed sunlight is transformed into usable energy by way of an inverter that turns direct current (DC) energy into alternating current (AC) electricity. AC is the form of power used in homes and businesses.
- 4 Electricity generated travels though distribution lines to homes and businesses.

SOLAR PARK EQUIPMENT













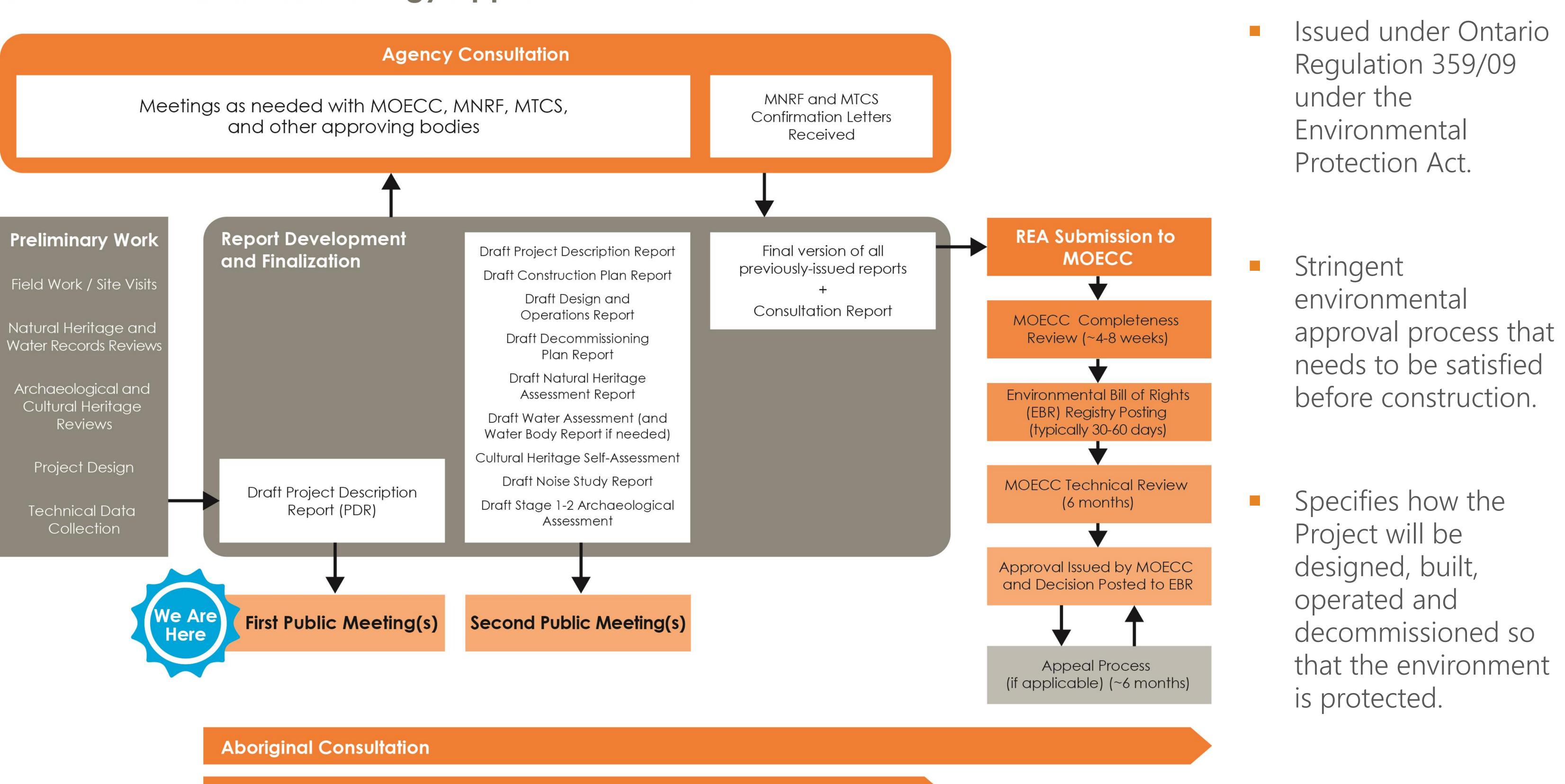


Substation includes necessary equipment to connect to the local electricity grid

THE RENEWABLE ENERGY APPROVAL PROCESS

Overview of Renewable Energy Approval Process

Municipal Consultation



ENVIRONMENTAL AND TECHNICAL ACTIVITIES UNDERWAY

Solar Collection

Meteorological (MET) station erected at site to monitor amount of energy from the sun at site to help with estimating potential electricity production over the life of the Project.

Geotechnical Assessment

Determine the type of soils and depth to bedrock to better understand how the foundations will be designed and built.

Environmental & Cultural Field Work

The following technical studies help us to understand the local environment and to avoid or mitigate potential impacts of the Project: wildlife & wildlife habitat, waterbodies and aquatic resources, woodlands, wetlands, and other vegetation communities, archaeological resources, cultural heritage features, socio-economic features.

Interconnection Assessment

Interconnection studies are performed by Hydro One Networks Inc. (HONI) and the Independent Electricity System Operator (IESO) to ensure the safe and reliable integration of solar energy. The assessments confirm the ability to connect to the grid.





DESCRIPTION OF POTENTIAL ENVIRONMENTAL EFFECTS

Natural Heritage Resources

- The Project Location is situated within an active agricultural area and not within a natural feature.
- Natural heritage features located within 50 m of the Project Location are assessed for significance. Appropriate mitigation measures are planned for any anticipated environmental effects.
- The Project Location is not located within 50 m of a Provincial Park, Conservation Reserve, or an Area of Natural and Scientific Interest.

Heritage & Archaeological Resources

- Heritage and archaeological studies were completed according to the requirements of the Ministry of Tourism, Culture and Sport.
- No heritage resources or protected properties were identified.
- No evidence of archaeological sites/resources were found within the Project Location.
- No effects to archaeological or heritage resources are anticipated as a result of the Project.

Water Resources

- Waterbodies were identified at and within 120 m of the Project Location.
- Further assessment to document existing conditions and assess potential impacts to waterbodies will be completed this fall.
- Groundwater investigations and/or monitoring requirements will be verified during the REA process.
- The project will be located, designed, constructed and operated in a way that protects water resources.

Further details on potential environmental effects are available in the draft Project Description Report, accessible on the project website (http://www.edf-en.ca/projects/barlow-solar-energy-centre1/)



COST EFFECTIVE & COMPETITIVE PRICING

Solar-generated electricity is becoming more and more competitive with traditional sources of electricity.

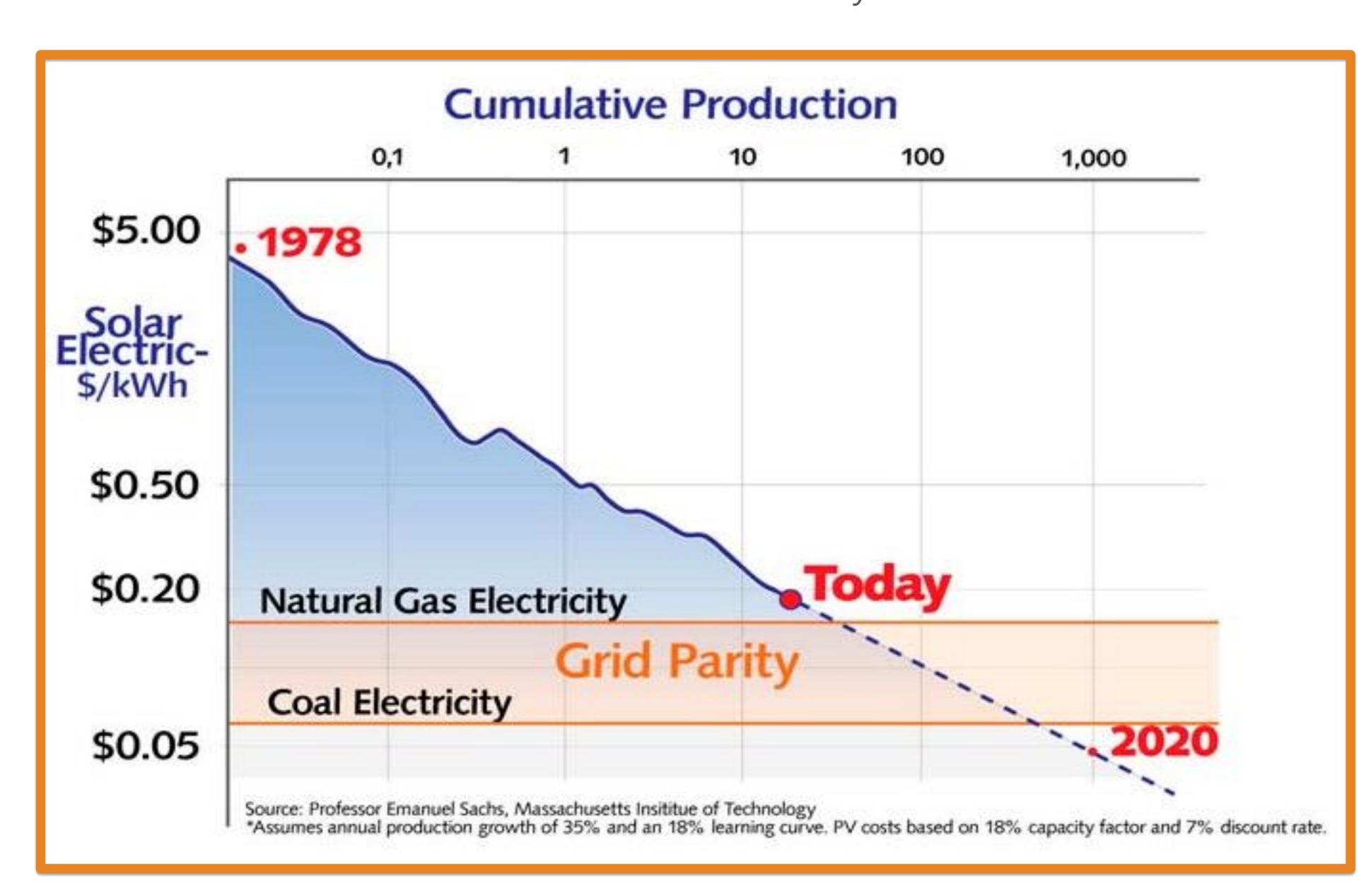
Solar contracts offered in 2016 (avg. price \$0.157/kWh)

Cost Effective

Cheaper than current Ontario residential peak price (~\$0.18/kWh) and cheaper than hydro power contracts offered in 2016 (avg price of \$0.176/kWh)



Price paid for solar electricity is determined at the time of contract award and will not increase over its 20 year term.





LOCAL ECONOMIC BENEFITS

EDF EN Canada values the long-term benefits of working with the local community. We have entered into a Community Benefit Agreement that will contribute \$400 000 to the Township of South Stormont over the life of the project.



Funds will allow community to support local initiatives such as:

INFRASTRUCTURE IMPROVEMENTS • RECREATIONAL FACILITIES • ENVIRONMENTAL

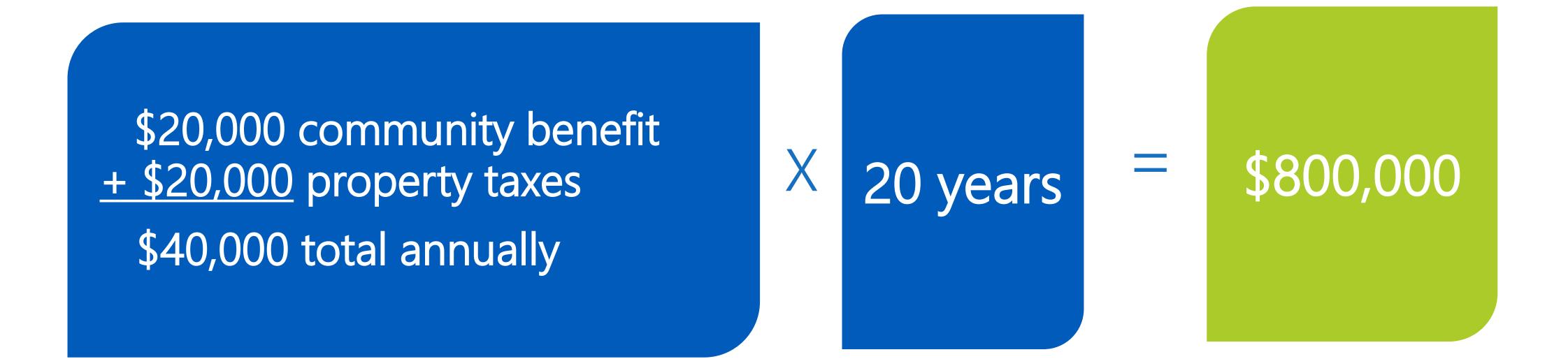
PROJECTS • EDUCATIONAL PROGRAMS





MUNICIPAL AND LOCAL COMMUNITY BENEFITS

- \$20,000 per year Community Benefit Agreement Contributing funds to the Township of South Stormont;
- Additional Estimated \$20,000 per year in property tax revenues



- Construction jobs
 About 100 construction jobs anticipated at the peak of construction;
- Long-term operator positions
 Possible full-time position within the local community to support and service the facility;
- Local investment
 Significant investments into the local economy during the development, construction and operation phases of the Project.



PROJECT TIMELINE

Project Timeline

July
Public Community Meeting

September

Project Submitted to IESO during LRP 1 RFP Process August & September

Notice of a Proposal to Engage and Notice of Public Meeting released to public, agencies, municipalities and aboriginal communities

Draft Project Description Report released to public, agencies, municipalities and aboriginal communities

Municipal Consultation Form provided to Municipalities February

Final Public Meeting

March

Submission of REA application to MOECC

November

REA issued by MOECC (anticipated)

Repowering/ Decommissioning

2015

2016

2017

2018

20 or more years after Commercial Operation Date

June

Initiate Renewable Energy Approval (REA) Process

May

REA technical studies and field programs commence, ongoing into fall

March LRP contract award December

Draft REA Reports to Public for 60 day Public Review & Comment

November

Public Meeting

Draft REA Reports and Municipal Consultation Form provided to Municipalities (90 day review) December

Commercial Operation Date (COD)

March

Start of Construction

Ongoing consultation with municipal staff, landowners, aboriginal communities, government agencies, special interest groups and members of the community.

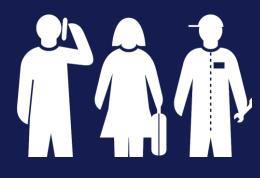
October

WHY SOLAR MAKES SENSE

By 2020 solar will:



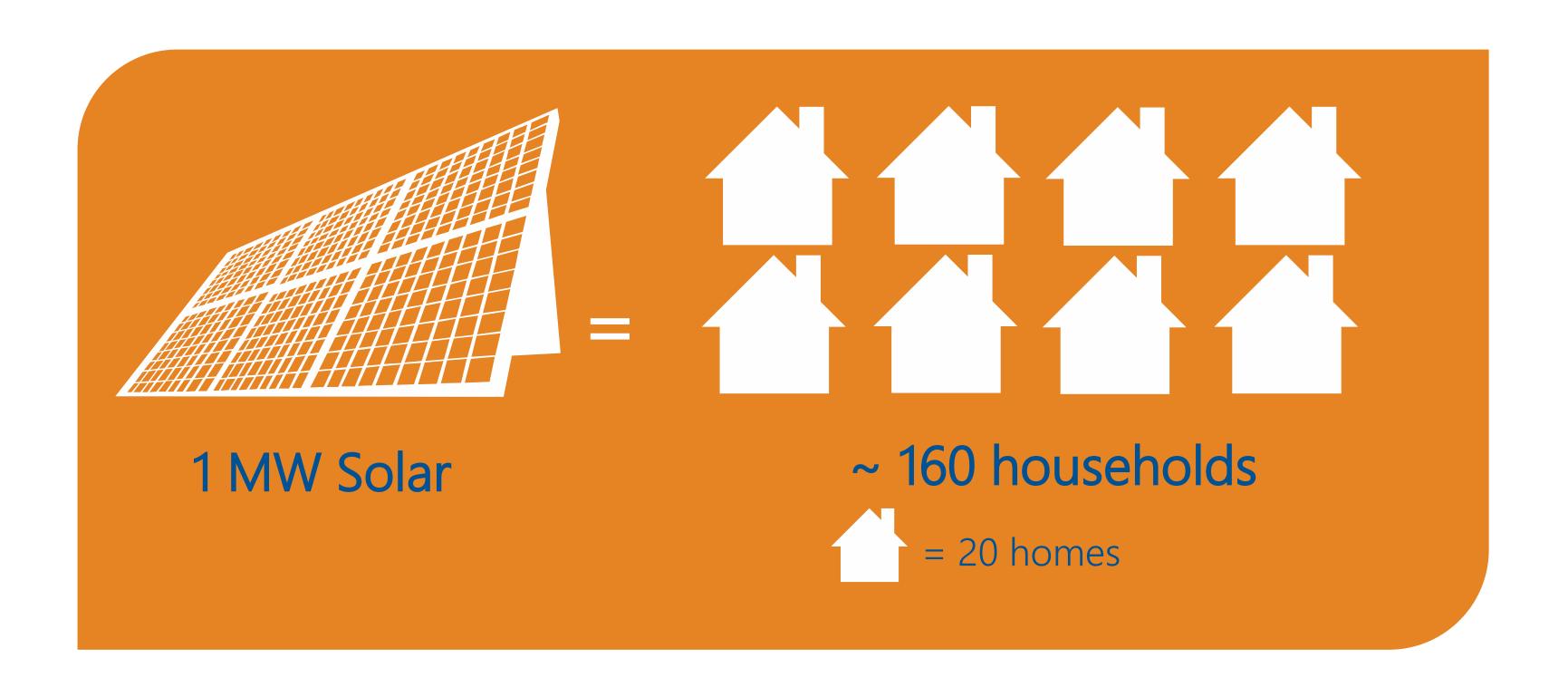
Produce approximately 1% of electricity generation in Canada;



Employ a labour force of approx. 10,000 people/yr;



Displace approx. 1.5 million tonnes of greenhouse gas (GHG) emissions per year, the equivalent of removing 250,000 cars and trucks off the road each year.



Reduce dependence of fossil fuel Solar energy reduces the dependence on other forms of electricity generation like natural gas and diesel that draw upon finite resources that contribute to greenhouse gas emissions.

Supply aligns with Demand

Solar panels produce electricity to Ontario customers at times during the day when power is most needed.



Solar energy emits no greenhouse gas or CO_2 to the air or ground during operation; water is not used for operation.

LOCAL ECONOMIC BENEFITS

Direct benefits

Surveying

Civil engineering

Mechanical work

Electrical work

Road construction

Transportation equipment

Earthwork activities

Maintenance of vehicle fleet

Maintenance paths

Snow removal

Other related services



Indirect benefits

Meals and accommodation for construction personnel Products, services and supplies

POWERING PROGRESS WITH COMMUNITY PARTNERS



"Our community is very proud to be a part of such an important renewable energy project. There are tremendous economic benefits to our community including the more than 350 jobs that were created during construction and another 20 permanent operations and maintenance jobs."

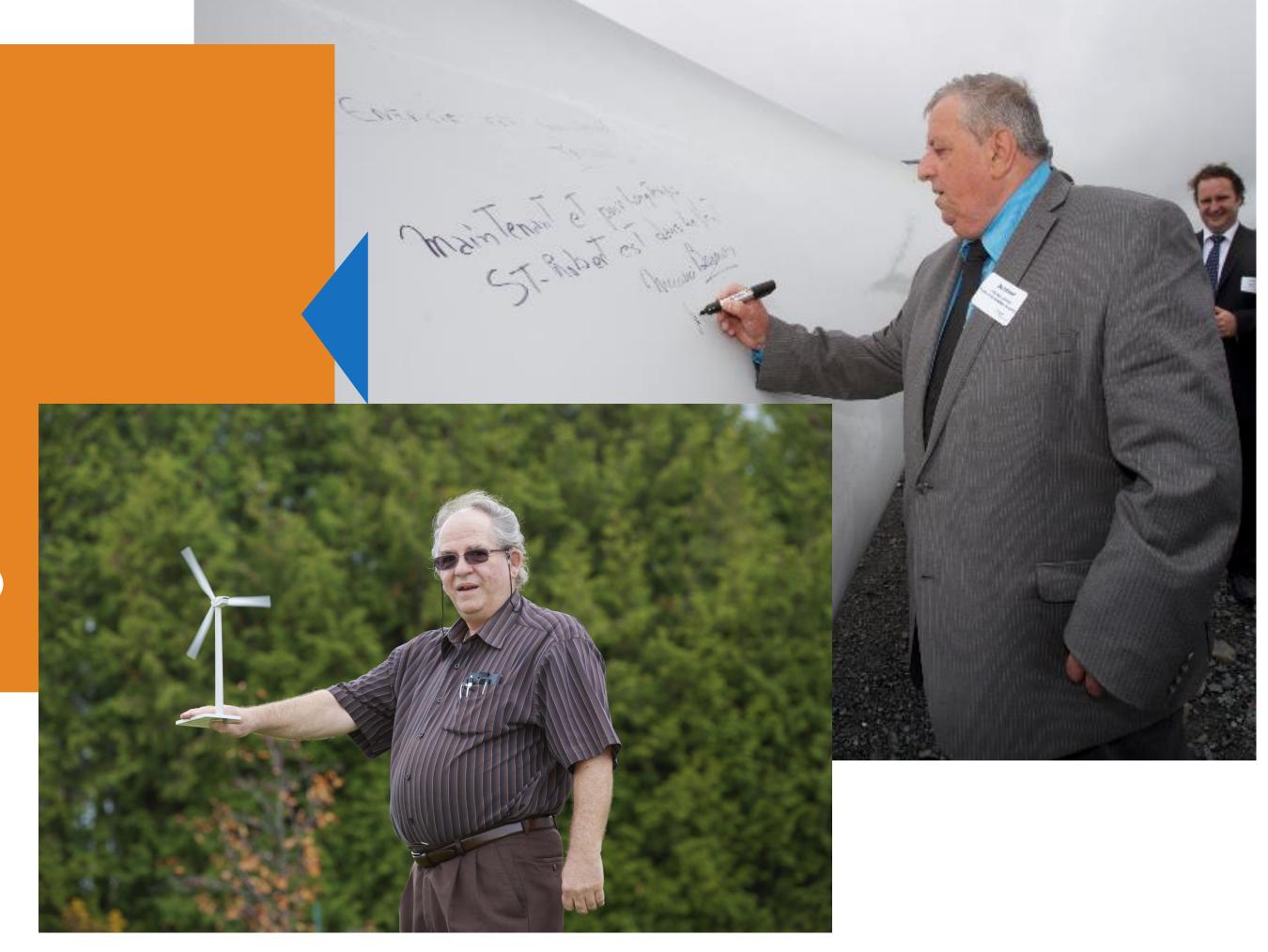
Kym Nichols, Mayor of Carmangay, AB

Blackspring Ridge Wind Project (300 MW)

"EDF EN Canada has established an open and honest communication process. They shared with us their plans and have delivered exactly on their promise. This is the key to success."

Jeannot Lachance and Michel Polin, Mayors of Saint-Robert-Bellarmin, QC

Saint-Robert-Bellarmin Wind Project (80 MW) Le Granit Wind Project (24,6 MW)



"I consider the work done for this wind project to always have respected the important values of the MRC du Granit. Moreover, respecting the vision of the MRC, EDF EN Canada was able to put the citizens and the environment

at the heart of their priorities in the development and construction of this valuable wind project."

Maurice Bernier,
Prefect of Granit MRC, QC (2005-2014)

Le Granit Wind Project (24,6 MW)

VISUAL IMPACTS AND SOUND

Visual Impacts

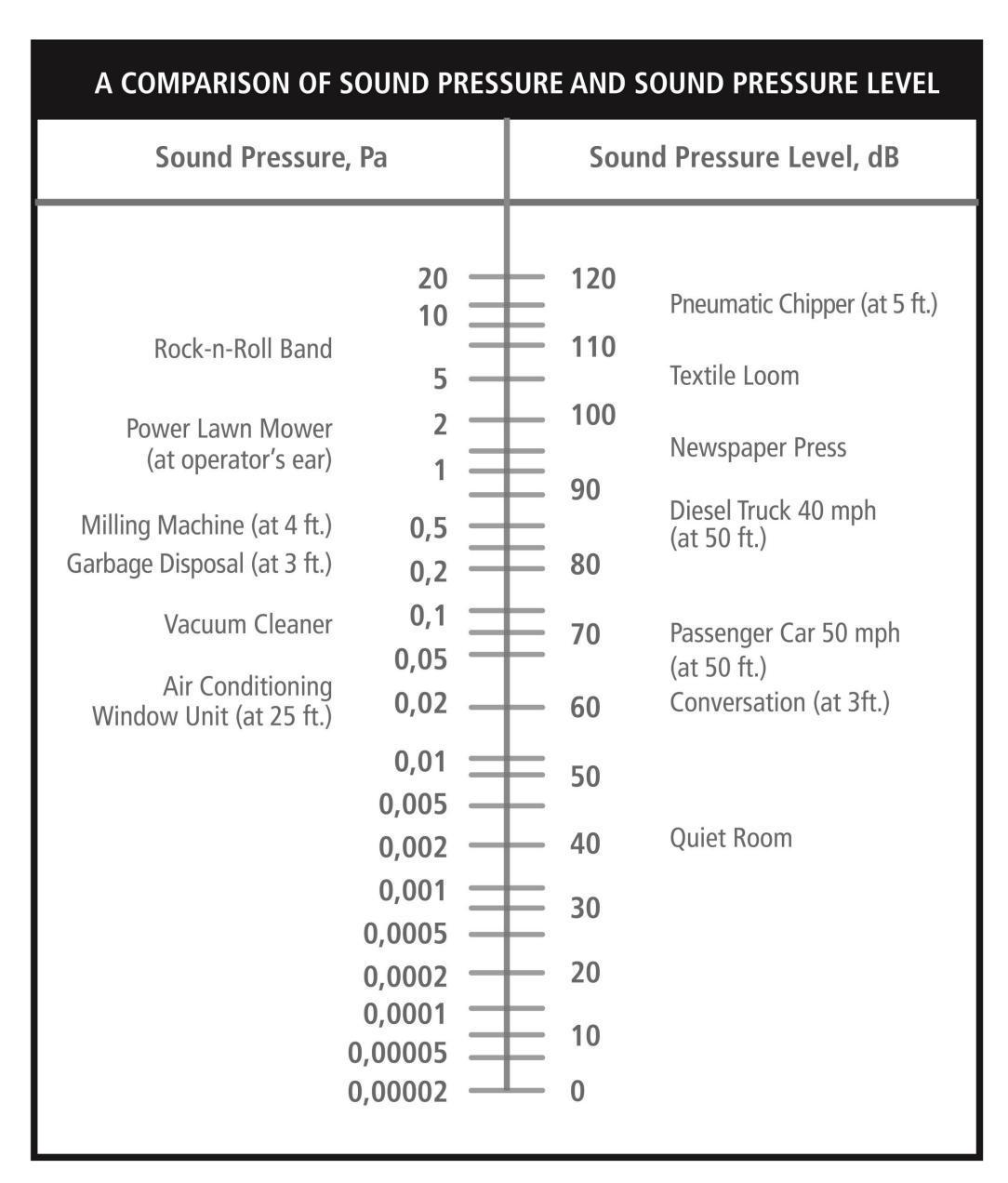
The solar panels are designed to absorb light to convert it into energy, rather than reflect it. This means there will be minimal visual impact caused by glare.

Sound

The solar panels do not emit any sound. However, the inverters (which convert electricity from direct current to alternating current electricity) and the transformers (which increase the voltage of the electricity to accommodate the local distribution grid) do emit some sound.

As part of our project design, we must meet the Provincial noise regulations that limit the noise at neighboring homes to 40 decibels (equivalent to a quiet room) measured at the outside of a home.





Source: Canadian Centre for Occupational Health and Safety, OSH Answers Fact Sheet

http://www.ccohs.ca/oshanswers/phys_agents/noise_basic.html



WE WANT TO HEAR FROM YOU!

Please share your questions and comments with us by filling out a questionnaire. Feel free to take extra questionnaires with you and share them with your friends and family.

Copies of the display boards from this Public Meeting and the Draft Project Description Report are available on the website.

To learn more about the project proposal, public meeting, or to communicate your interests please contact us!

BarlowSolar@edf-en.ca 1-844-55-EDF-EN

Website: www.edf-en.ca/projects/project_display/barlow-solar-energy-centre1

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