



# **SOUTHGATE SOLAR LP**

Presentation for Third Community Liaison Committee Meeting

*February 29, 2016*

**SOUTHGATE**  
**SOLAR LP**

# AGENDA

- Project Overview & Recent Milestones
- Introduction of PCL Constructors Canada
- Construction Location, Process & Timing
- Traffic Management Plan
- Health and Safety Plan
- Community Benefits and Recruiting
- Other Questions / Issues

## PROJECT OVERVIEW

- Facility to be located on approximately 375 acres of land in the Township of Southgate
- Comprised of approximately 190,000 ground-mounted photovoltaic (“PV”) modules manufactured in Ontario by Canadian Solar Solutions Inc.
- Total nameplate capacity of 50 MW AC
- 4 km joint use distribution line linking properties to substation
- Project interconnected to Hydro One grid via a short (150m) tie line located on Southgate Sideroad 41
- Electricity to be sold to Independent Electricity System Operator of Ontario under a 20-year contract

Clean electricity generated enough to power 7,600 households each year

## MAJOR MILESTONES SINCE SECOND CLC MEETING

- Renewable Energy Approval received from Ontario Ministry of Environment and Climate Change on Nov. 6, 2015
- Partnership agreement entered into by Samsung Renewable Energy with a group of institutional investors led by Connor, Clark & Lunn, a major Canadian asset management firm
- \$190 million debt financing closed with syndicate of major banks
- Road resurfacing work (\$230K contribution to Township of Southgate)
- Engineering, Procurement & Construction contract entered into with PCL Constructors Canada Inc. to build the project
- Long-term Operations & Maintenance contract entered into with EDF Renewable Services Inc., an experienced renewable energy operator

## INTRODUCTION TO PCL CONSTRUCTORS CANADA INC.

- Established in 1906, the PCL family of companies is the largest general contracting organization in Canada, a position it has held for more than 30 years, and the 6th largest in the United States
- With approximately 70% of its work performed in Canada and 30% in the United States, PCL has annual billings of \$7.9 billion
- Construction of the Southgate Solar project will be managed by PCL Constructors Canada Inc. out of PCL's Toronto District Office
- PCL Toronto employs more than 600 individuals and in 2014 had billings in excess of \$1.4 billion
- PCL is Ontario's most experienced solar contractor, with 30 ground mount solar projects commissioned



**CONSTRUCTION LEADERS**

## KEY MEMBERS OF PCL'S SOUTHGATE TEAM



### Andrew Moles

- Operations Lead – Renewable Energy
- 9 Year of Construction Experience
- 8 Years of Service with PCL

Oversees all of PCL's Renewable Energy operations and has been involved in completing all of PCL's 30 ground mount solar installations



### Brent Cooper

- Project Manager
- 22 Year of Construction Experience
- 13 Years of Service with PCL

Responsible for PCL's Southgate Solar project execution. Involved in two previous ground mount solar installations for PCL

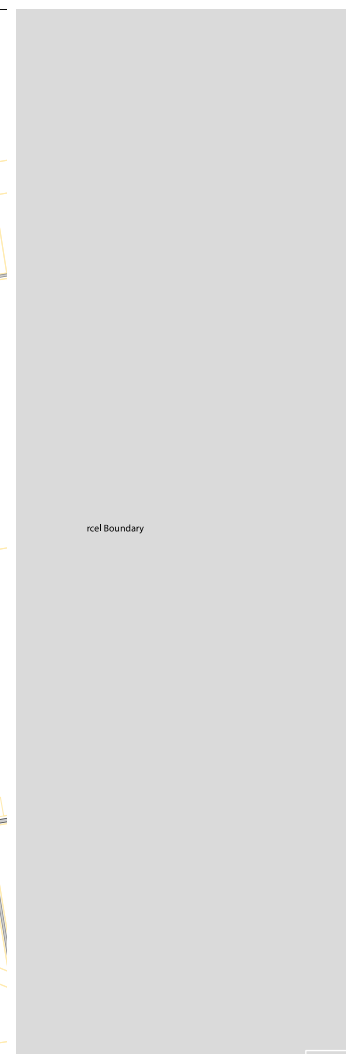
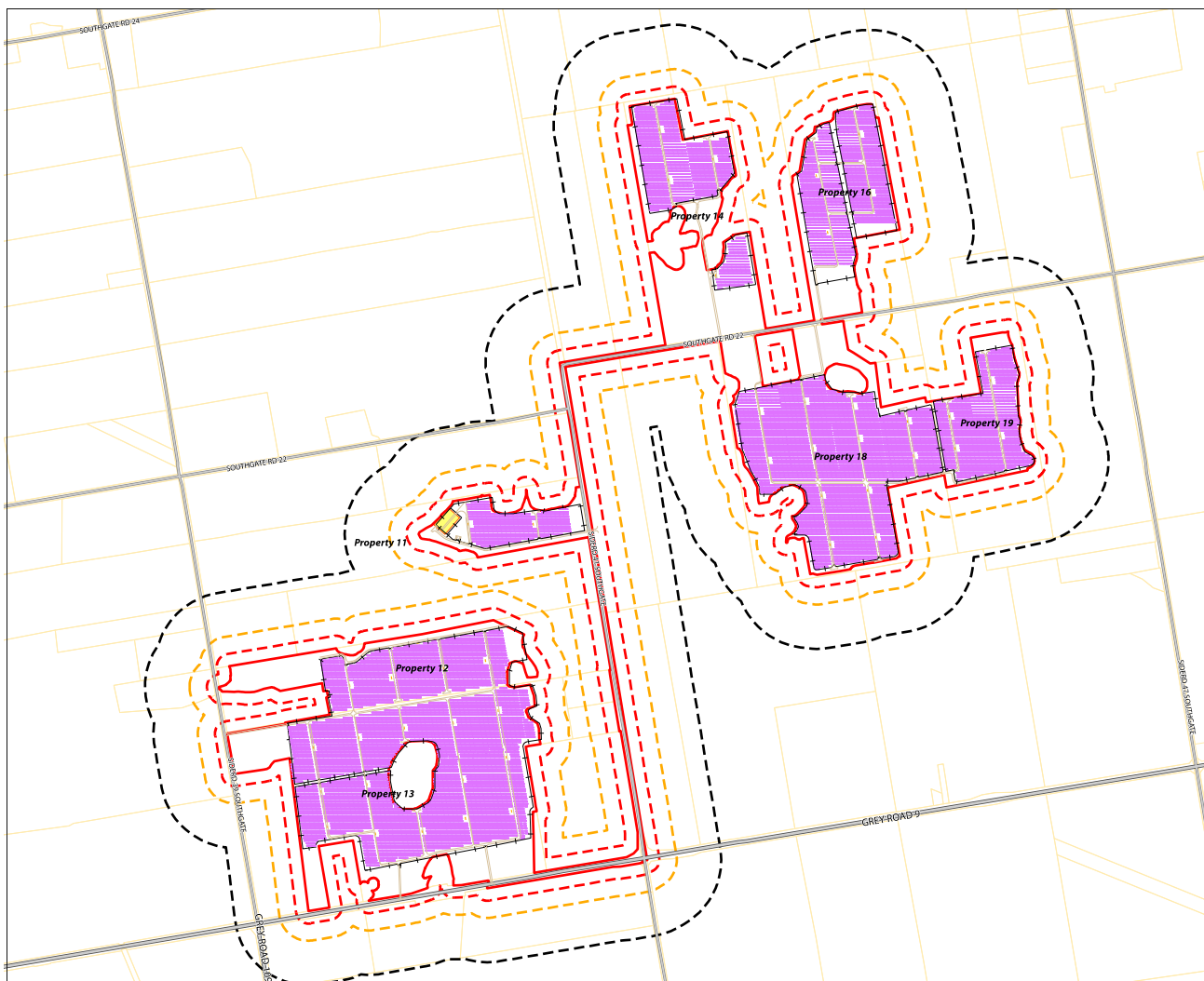


### Jeff Ewert

- Lead Superintendent
- 24 Years of Construction Experience
- 12 Years of Service with PCL

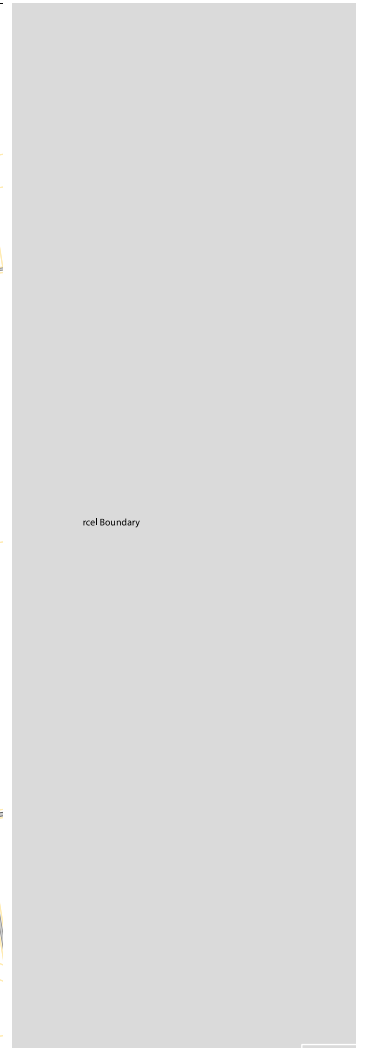
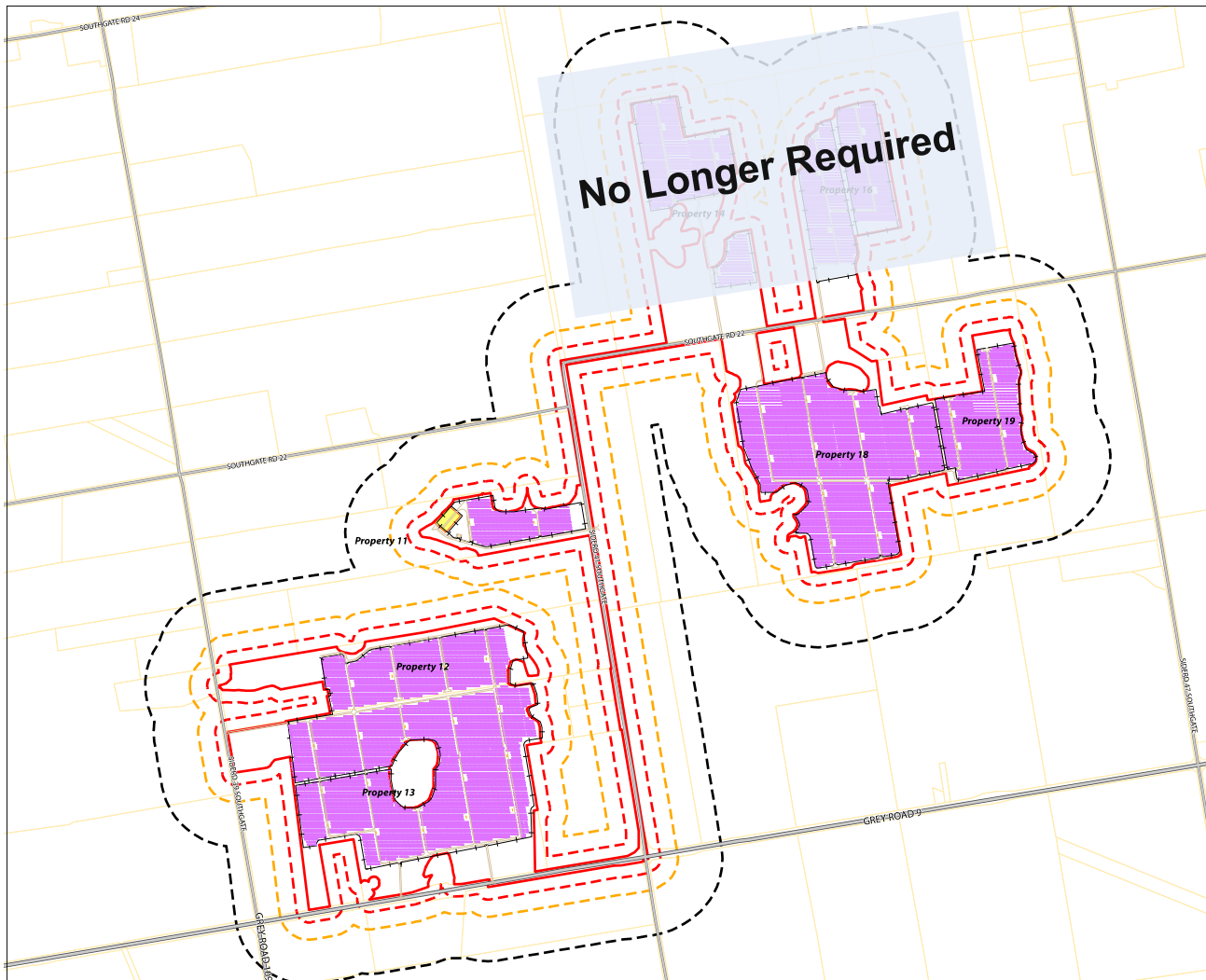
Responsible for the all of PCL's Southgate Solar site staff and operations including management of PCL's subcontractors. Involved in 12 previous ground mount solar installations for PCL

# ORIGINAL PROJECT LAYOUT



Page 6

# REVISED PROJECT LAYOUT





# LOCATION OF PROPERTIES



# CONSTRUCTION PROCESS

## Civil Works

- Storm Water Management Plan
- Clearing & Grubbing
- Fencing
- Access Road Construction
  
- Final Landscaping

## Structural Works

- Inverter House Foundations
- Switchyard Foundations
- Solar Racking Foundations
- Pole Line Foundations
- O&M building construction

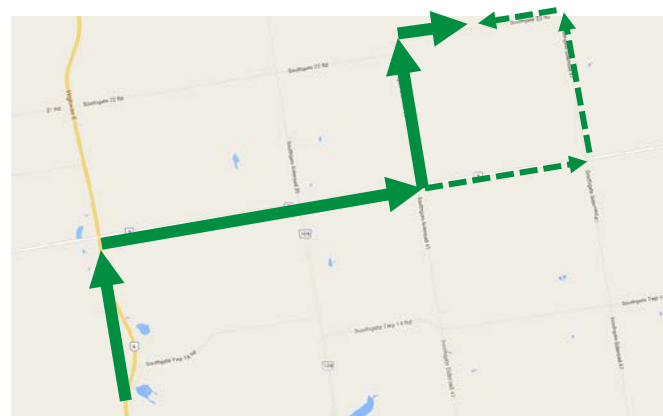
## Electrical Works

- Panel installation
- Inverter House installation
- Field wiring and underground collector installation
- Substation equipment installation
- Pole Line Conductor and Telecom installation

## EXPECTED CONSTRUCTION SCHEDULE

- Clearing & Grubbing Feb 2016 – Mar 2016
- Fencing & Site Preparation Feb 2016 – Mar 2016
- Solar Zones Construction Mar 2016 – Jan 2017
- Substation Construction Apr 2016 – Oct 2016
- Collector Lines (New Hydro Poles) Apr 2016 – Sept 2016
- Final Completion Jan 2017 – May 2017

# TRAFFIC MANAGEMENT PLAN – HAUL ROUTES



- Primary Haul Route to the solar farm:
  1. Truck originating from provincial highway
  2. Next roadway (County or Southgate Road)
  3. Next roadway (Southgate Road)
  4. Next roadway (Southgate Road)
- Alternate Haul Route to the solar farm:
  1. Truck originating from provincial highway
  2. Next roadway (County or Southgate Road)
  3. Next roadway (Southgate Road)
  4. Next roadway (Southgate Road)

Hwy #6 to  
Grey Road 9 to  
Southgate Sideroad 41 to  
Southgate Road 22

Hwy #6 to  
Grey Road 9 to  
Southgate Sideroad 47 to  
Southgate Road 22

## PCL HEALTH AND SAFETY PLAN

- This project-specific HSE Plan is a document that integrates local HSE regulations, owner/client HSE requirements, and PCL HSE standards into a single package that can be easily referenced by PCL project management/supervision, subcontractor supervision and workers
- The purpose of the project-specific HSE Plan is to:
  - Assist all workers in the planning, organizing, control, monitoring and implementation of corrective measures which are necessary to mitigate risk and prevent exposures which could cause injury, illness, property/equipment damage or negative environmental consequence;
  - Enhance and maintain the health, safety and environmental awareness of all workers; and
  - Minimize hazards to public health and welfare

## LONG-TERM BENEFITS FOR LOCAL COMMUNITY

- Help Ontario reduce greenhouse gas emissions by 70,000 tonnes/year of CO2 compared to coal-fired generation
- 200+ jobs onsite for approximately one year
- Annual payments of \$75,000 made to Community Vibrancy Fund for Township of Southgate for 20 years
- Municipal property taxes will increase, providing additional revenue to the community
- Creates operations & maintenance jobs in plant & system maintenance, repairs, electrical work, system monitoring, vegetation control, snow removal, security, etc. for 20 years

# SUBCONTRACTOR AND WORKER RECRUITING EVENT

## Subcontractor/Worker Drop In Information Open House



Interested subcontractors and/or workers are invited to visit the construction team for the Southgate Solar project to learn about PCL's prequalification process and upcoming tender opportunities available on the project.

**Friday, March 11, 2016**  
**1 p.m. to 4 p.m.**

PCL Site Office  
412233 Southgate Road 41  
Holstein, ON NOG 2A0

Opportunities in the following areas:

- Civil
- Electrical
- Quality Control
- Landscaping
- Fencing
- Drilling
- Concrete Forming
- Racking and Module Installations
- Surveying

## CONTACT INFORMATION

Name	Title	Company	Phone	Email
Jason Woods	Project Director	Southgate Solar	(613) 449-7478	<a href="mailto:jwoods@cclinfrasture.com">jwoods@cclinfrasture.com</a>
Brendan McDonald	Project Coordinator	Southgate Solar	(226) 668-8629	<a href="mailto:bmcdonald@cclinfrasture.com">bmcdonald@cclinfrasture.com</a>
Brent Cooper	Project Manager	PCL	(416) 902-4513	<a href="mailto:bdcooper@pcl.com">bdcooper@pcl.com</a>
Jeff Ewert	Lead Superintendent	PCL	(647) 632-2504	<a href="mailto:jewert@pcl.com">jewert@pcl.com</a>

PCL 24-Hour Emergency Hotline (416) 201-5362

Email = [info@sslp.ca](mailto:info@sslp.ca)





Southgate Solar LP  
181 University Ave, Suite 300  
Toronto, ON M5H 3M7

[www.sslp.ca](http://www.sslp.ca)

**SOUTHGATE  
SOLAR LP**