

Ministry of the Environment and Climate Change

Renewable Energy Approval Application

General Information and Instructions

General Information

Information requested in this form is collected under the authority of the *Environmental Protection Act*, R.S.O. 1990, c. E.19 (EPA) and will be used for the purposes of making decisions in respect of applications for the issue of, or amendment to, a Renewable Energy Approval. The information may also be used in connection with the Ministry's compliance and enforcement activities under the EPA.

For all questions related to preparing or submitting this form or about the Ministry's collection of information related to applying for a Renewable Energy Approval contact: Environmental Approvals Access and Service Integration Branch, 135 St. Clair Ave. W., 1st Floor, Toronto ON M4V 1P5. Telephone outside Toronto 1 800 461-6290 or in Toronto 416 314-8001. E-mail: <u>EAASIBGen@ontario.ca</u>.

Instructions

 Applicants are responsible for ensuring that they complete the most recent application form. Application forms and information about the required supporting documentation and technical requirements are available from the Environmental Approvals Access and Service Integration Branch (the address and phone number are provided in the General Information on this page). As well, you can get this information from your local District Office of the Ministry of the Environment and Climate Change, and in the "Renewable Energy Approvals" section of the Ministry of the Environment and Climate Change website at www.ontario.ca/environment-and-energy/renewable-energy-approvals.

2. Complete Submission

In order to be eligible for the issue of a renewable energy approval, a person who proposes to engage in or change a renewable energy project, or alter the terms and conditions of a renewable energy approval shall, before submitting an application to the Director,

- 1) prepare the application in a form or format approved by the Director;
- 2) obtain or prepare, as the case may be, any documents that,
 - a) are required under Part IV of O. Regulation 359/09 (the Regulation) to be submitted as part of the application; or,
 - b) are to be submitted as part of the application for the purposes of obtaining an exemption from a provision of Part V of the Regulation; and,
 - c) comply with all other requirements of Part IV of the Regulation;
- 3) If there is more than one person applying for the issue of a renewable energy approval in respect of a renewable energy project, those persons shall jointly submit one application for the issue of a renewable energy approval;

New Renewable Energy Approval

Where a renewable energy approval has not yet been issued, a person who proposes to engage in a renewable energy project shall also

- 1) submit, as part of the application, the documents set out in Column 1 of Table 1 of the Regulation, wherever the renewable energy project is described opposite the document in Column 3 of Table 1 of the Regulation; and,
- 2) ensure the documents meet the requirements set out opposite the document in Column 2 of Table 1 of the Regulation.

Amendment to Renewable Energy Approval

Where a renewable energy approval has been issued, a person making an application in respect of a **proposed change to a renewable** energy project or alteration to the terms and conditions of the renewable energy approval shall, also

- obtain or prepare, as the case may be, one or more reports that set out a description of and rationale for the proposed change or alteration, including any proposed change or alteration in respect of the following:
 - a) the nameplate capacity of the renewable energy generation facility.
 - b) the energy sources to be used to generate electricity at the renewable energy generation facility.
 - c) the project location.
 - d) the renewable energy generation facility, including any associated or ancillary equipment, systems or technologies.
 - e) the activities that will be engaged in as part of the project.
 - f) the negative environmental effects that may result from engaging in the project.
 - g) the measures to mitigate the negative environmental effects that may result from engaging in the project.

Supporting documents

- 1) Any document submitted as part of an application for the issue of a new, or amendment of an existing, renewable energy approval shall be in writing, with an electronic copy of the document attached.
- 2) Any document submitted as part of an application for the issue of a new, or amendment of an existing, renewable energy approval that is a diagram, map or plan shall be drawn to scale and shall include a scale bar and a north arrow.

Payment of the application fee (in Canadian funds) by certified cheque or money order made payable to the Minister of Finance, or credit card payment (for payments up to \$10,000) is required with the complete submission of your application.

INCOMPLETE APPLICATIONS WILL BE RETURNED TO THE APPLICANT.

The Ministry may require additional information during the technical review of any application.

3. Two (2) paper copies of the completed application form and the supporting documents required to be submitted as part of the application, one (1) electronic copy and the fee, must be sent to:

Ministry of the Environment and Climate Change

Director, Environmental Approvals Access and Service Integration Branch 135 St. Clair Avenue West, 1st Floor Toronto ON M4V 1P5

The fee should be mailed or faxed to our office with the application. For the protection of your credit card information, do not submit the fee by email.

- 4. You must also send one (1) paper copy of the complete application without the fee to any local Ministry District Office having jurisdiction over the project location. To locate the appropriate local Ministry District Office, please visit the Ministry of the Environment and Climate Change Internet site at: https://www.ontario.ca/environment-and-energy/ministry-environment-regional-and-district-offices.
- 5. Information collected by the Ministry of the Environment and Climate Change is subject to the *Freedom of Information and Protection of Privacy Act* (FIPPA). If you are of the view that any part of your application is confidential on the grounds that such information constitutes a trade secret or scientific, technical, commercial, financial or labour relations information, please make this known now. Otherwise, the Ministry may make the information available to the public without further notice to you.

It is an offence under the EPA to provide false or misleading information in this application and/or accompanying documents.



Ministry of the Environment and Climate Change

 For Office Use Only

 Reference Number
 Payment Received
 Date (yyyy/mm/dd)
 Initials

 \$
 \$

Application Summary

Applicant Name (Legal name of individual or organization as evidenced by legal documents)

Hamilton General Partner 1 Inc. and Hamilton General Partner 2 Inc. operating as Hamilton Solar Farm Partnership

Project Name (Project identifier to be used as a reference in correspondence)

Hamilton Port Hope-4 Solar Energy Facility (Hamilton Solar Project)

Project Description Summary (This summary should reflect the description in the documents upon which consultation has been completed and if it does not, the difference should be highlighted)

Please see original REA application (#0905-8S7M96) submitted July 12, 2011.

Supplemental Application Information (Provide any other information that might be relevant to your application) The Applicant is applying to amend the existing REA approval to revise stormwater management best practice measures that were determined to be necessary and to make an associated change to the Project location boundary. The changes that constitute this REA amendment application have been prepared and proposed by the Project contractor (Canadian Solar Solutions Inc.) in order to complete the Project.

Note: This form has been save-enabled; you can save a copy of this form that includes any information you have entered. Additional instructions and information on how to complete the application form can be found in the accompanying "Guide for Completing the Renewable Energy Approval Application".

Section 1 – Applicant Information	ation		
1.1 – Applicant Information (C Applicant Name (Legal name of indiv Hamilton General Partner 1 1 Business Name (The name under wh	Partnership Business Identification Number 220747042 Same as Applicant Name		
Hamilton Solar Farm Partner	ship		
Applicant Type			
 Corporation Partnership Other (describe): 	 Federal Government Provincial Government 	 Individual Sole Proprietor 	Municipal Government
North American Industry Classification	tion System (NAICS) Code		
221119			
Business Activity Description (A des	cription of the business endeavour, this	may include products sold, services provi	ded or machinery/equipment used, etc.)

Civic Address										
Unit Number	Street Number	er S	r Street Name (Include type and direction)							
1801	1	Y	Yonge Street							
City/Town					Province	э			Postal Code	
Toronto					ON - O	Ontario		~	M5E 1W7	
Survey Address (Not	required if the C	Civic Addres	s is provide	ed)						
Lot/Part		Concessio	on/Referer	nce Plan	Municip	ality/Unor	ganize	d Township		
County/District		Provir	nce/State			Country			Postal Code	
Telephone Number (ir	ncl. area code)			Fax Number (ir	ncl. area c	area code) Mobile Number (incl. area code)				
610 668-0300		ext		610 668-036	55					
Email Address				•						
glen@pennenergy	renewables.	.com								
1.3 – Applicant Ma	iling Addres	is 🗌 Sa	ame as Ap	oplicant Physica	Address	S				
Civic Address										
Unit Number	Street Numbe	er S	treet Nam	ne (Include type a	nd directio	on)			PO Box	
	620	F	Righters	Ferry Road						
City/Town/Municipality	//Unorganized	Township					Province/State			
Bala Cynwyd					Pennsylvania 19004					
Country				Postal Code						
USA										
Delivery Designator			Delivery	Identifier				Postal Station		

1.4 - Statement of Applicant

1.2 – Applicant Physical Address

I, the undersigned hereby declare that, to the best of my knowledge:

- The information contained herein is complete and accurate in every way and I am aware of the penalties against providing false . information as per s.184(2) of the Environmental Protection Act;
- I understand that by submitting this form, I am guaranteeing the completeness and accuracy of all the information provided on this form and included in the draft reports. Failure to submit the correct information will result in an incomplete application being returned;
- The Project Technical Information Contact identified below is authorized to act on my behalf for the purpose of obtaining approval under section 47.3 of the EPA for the Project identified herein.

Name of Signing Authority (Please print) Contract, Victor	(Last name, fir	rst name)		Title Secretary
Telephone Number (incl. area code) 610 668-0300	ext.	Fax Number (incl. area code) 610 668-0365	Mobile	Number (incl. area code)

Email Address

victor(a	vpennener	gyrenewa	bl	es.com
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Signature	latur
2074E (2015/04)	

Date (yyyy/mm/dd)

2016/11/01

Section 2 – Project Information

2.1 – Application Type

New Renewable Energy Approval

\checkmark	Amendment to existing Renewable Energy Approval
	Provide existing Renewable Energy Approval Number
	0905-8S7M96

Application Initiated by			
Applicant			
Environmental Approvals Brand	ch/Environmental Approvals Access and Service Ir	tegration Branch	
Provincial Officer Order (attach o	сору)		
Delevent pro submission rules a	which the laborated (places called and of the follow	ing)	
Netice of Dressed to Engrand	2010 Pules	lif "Elect into on	or more 2011 Pulse" plages specifi
if applicable, Notice of First Public	Elect into one or more 2011 Rules	which rules:	e of more 2011 Rules, please specify
Meeting, distributed on or before			
December 31, 2010.	Elect into Current Rules		
Notice of Proposal to Engage and	2011 Rules		
Notice of First Public Meeting (or if	Elect into Current Rules		
public meeting not required, drafts			
paragraphs 1 and 2 of subsection			
18(2) of the Regulation) distributed			
after December 31, 2010 and on or			
before July 1, 2012.			
Notice of Proposal to Engage or	Current Rules		
Notice of First Public Meeting			
distributed after July 1, 2012.			
Current Environmental Compliar	ice Approvals (please attach a separate list if more sp	ace is required)	
Environmental Compliance Approv	ainumber		Date of Issue (yyyy/mm/dd)
Environmental Compliance Approv	al Number		Date of Issue (vvvv/mm/dd)
Environmental Compliance Approv	al Number		Date of Issue (yyyy/mm/dd)
Environmental Compliance Approv	al Number		Date of Issue (yyyy/mm/dd)
Current Permit(s) to Take Water	(please attach a separate list if more space is required)		
Permit Number			Date of Issue (vvvv/mm/dd)
Permit Number			Date of Issue (yyyy/mm/dd)
Permit Number			Date of Issue (yyyy/mm/dd)
Permit Number			Date of Issue (yyyy/mm/dd)
Project Schedule		8	
Estimated date for start of construc	tion/installation (yyyy/mm/dd)	ate for start of operatio	on (yyyy/mm/dd)
2013/03/11	2014/08/1	1	

2.2 - Statement of Project Technical Information Contact

The Project Technical Information Contact is the same as the Applicant (Identified in Section 1)

I, the undersigned hereby declare that, to the best of my knowledge:

- The information contained herein and the information submitted in support of this application (electronically and in hard copy) is • complete and accurate in every way and I am aware of the penalties against providing false information as per s.184(2) of the Environmental Protection Act.
- I understand that by submitting this form, I am guaranteeing the completeness and accuracy of this form and the draft documents. . Failure to submit the correct information will result in the application being returned as incomplete.
- That the information contained in the electronically submitted application form is the same as the information submitted in the hard copy submission.
- I have used the most recent application form (as obtained from the "Renewable Energy Approvals" section of the Ministry of the Environment and Climate Change website at http://www.ontario.ca/environment-and-energy/renewable-energy-approvals or from the Environmental Approvals Access and Service Integration Branch at 1 800 461-6290).

Name of Project Technical Information Contact (Please print) (Last name, first name)

Feenstra, Mark				
Company	00			
Canadian Solar Solutions, Inc.			1	
Telephone Number (incl. area code)	Fax Number	(incl. area code)	Mobile	Number (incl. area code)
519 837-1881 e	ext. 2341 519 837-2	550	5194	97-9310
mark feenstra@canadiansolar.com				
Signature (bard copy submission MUST be sign	ed)			Date (vvvv/mm/dd)
M A A				
Mur Fens				2016/11/02
Address				
The Project Technical Information Conta	ct Address is the same as	the Applicant (Identifie	ed in Section 1)	
Unit Number Street Number	Street Name (Include type	e and direction)		PO Box
City/Town/Municipality/Unorganized Townsh	speedvale Ave. we	SL	Province/State	
Guelph	ιþ	ſ	ON	
Country		F	Postal Code	
Canada		1	N1K 1E6	
Delivery Designator	Delivery Identifier		Postal Stati	on
2.3 - Other Approvals for Facility (Ple	ase attach a separate list	if more space is requi	red)	
A separate list is attached				
List all other environmental approvals/pe	rmits applied for related	I to this project or re	ceived in relatio	on to this project
Approval Number				Approval Date (yyyy/mm/dd)
Approval Number				Approval Date (yyyy/mm/dd)
Approval Number				Approval Date (man/mm/dd)
Approval Number				Approval Date (vvvv/mm/dd)
Ontario Power Authority Reference (i.e. FIT)	Number (if applicable)			
FIT-Z958C				
2.4 – Type of Renewable Energy Gene	eration Facility (Select	all that apply)		
Wind Clas	s 2 🗌 Cla	iss 3	Class 4	Class 5
Other 🗌 Biofu	iel 🗌 Bio	ogas 🗌	Other (if other p	please describe):
Anaerobic Digestion	s 1 🐘 🗌 Cla	iss 2	Class 3	
Solar Photovoltaic 🔽 Class	s 3			
Thermal Treatment Class	s 1 🗌 Cla	iss 2	Class 3	25
2.5 – Generation of Electricity				
Total Maximum Name Plate Capacity		Total Expected Ger	neration Capacity	У
10 MW (1 MW = 100	00 kW / 1 kW = 0.001 MW	/) 10	MW (1 M	MW = 1000 kW / 1 kW = 0.001 MW)
Days and Hours of Operation				
365 days/year; 24 hours/day	1			
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Section 3 – Site I	nformation									
3.1 – Project Loca	ation (The site	e/locatio	n whe	re proje	ect will be locate	ed)				
The Project Loca	tion is the sam	ie as the	e Appli	cant's /	Address (Identifie	ed in Section	on 1)			
Civic Address	2									
Unit Number	Unit Number Street Number Street Name (Include type and direction)									
	2720		Pay	n Ro	ad					
City/Town						Province	Э			Postal Code
Baltimore	an an - mante and door and					ON - O	Ontario		~	K0K 1C0
Survey Address (No	ot required if the	Civic Add	dress is	provide	ed)					
Lot/Part	ot/Part Concession/Reference Plan Municipality/Unorganized Township									
3		2				Towns	hip of Hamil	lton		
County/District	-	Pr	ovince	e/State			Country			Postal Code
Northumberland	County	0	ntario)			CANADA			K0K 1C0
Non Address Informa	ation (where the	project s	spans n	hany loc	ations or a large	rural area,	specify how the	project area relates to t	ne ad	fress provided)
Gao Poforanco /So	ithwest corpor	of prop	ortu							
Man Datum	an west comer	or highe	(vity)	one				Acouracy Estimate		
NAD83			\mathbf{v}	7			\sim	Accuracy Estimate		
Geo Referencing Me	thod		1		etina			LITM Northing	000000000	
Delorme XMan	lindu		7	3092	Stilly	4877100				
2.2 Municipal or		a with a lun		stion /	,	-1 1	-1 11 11			AU 1 1 1 1
5.2 - Wunicipal of		only in	IOIIIIa	ation (List all municipa	al or board	d authorities wr	tere the project is loc	ated.	Attach a separate list
I ocal Municipality	(include eac	ch Sina	le Tie	rorl	ower Tier in w	hich the	nroject loca	tion is situated) / I	Inor	nanized Townshin
Name of Municipality	(Inorganized	Townshi	in in			inon the	. project 100a	tion is situated / t	51101	gamzed rownship
Township of Han	nilton	10001311	ιþ							
Addross	inton									
Linit Number	Street Numb	or	Ctro	ot Nor	o (Include ture e	ماند معالم ام م	-1			DO Bay
Onit Number	8285	ei	Ma	iestic	Hille Drive	ind directio	n)			1060
City/Town	0205		Ivia	Jestie	mis Dive	Province	<u>,</u>			Postal Code
Cobourg						ON = C	Intario			
Telephone Number (i	nal area codo)				Eax Number (ii			Mobile Number	(in al.	
905 342-2810			ovt		905 342-281		Jue)		(inci. i	irea code)
Email Address			ext.		705 542-20	10				
Linal Address										
Clerk								and a second		
Last Name						Lirot Nor	20			Middle Initial
Surerus						Kata	ne			iviladie Initial
Telephone Number "	nol oron anda'		Email	Addros	20	Nate				
005 342-2810	nci, area code)		Leuro	Audres	hamiltontow	nchin or				
903 342-2010			KSUIC	iusa	Inaliintointow	iisiip.ca	1			
is the project loca	tion situated	a in one	e or m	iore U	pper Her Mu	inicipalit	ty ? (i.e., county	, regional or district	muni	cipality)
⊻ Yes □ No										
Is the project loca	tion situated	d in a L	ocal I	Roads	area?					
🗌 Yes 🔽 No										
<u></u>										
is the project loca	tion in a Loc	al Ser	vice F	Board	area?					
	tion in a Loc	al Serv	vice E	Board	area?					

.

3.3 – Site Information (Information about the site/location where project will be located) Site Name MOE District Office

Site Name				
Hamilton_Port Hope-4 Solar Energy Facility	Peterborough District Office			
Is any portion of the Project location on federally owned land or a reserve	re?	🗌 Yes	✓ No	
Is any portion of the Project location on Crown Land?		☐ Yes	🗹 No	
Is the Project location that is the subject of this application owned by the address and a signed letter granting consent for the installation and ope	Applicant? If "no", please attach the owner's name, ration of the facilities.	✓ Yes	🗌 No	
Is the Applicant the operating authority of the facility that is the subject of authority name, address and phone number.	f this application? If "no", please attach the operating	✓ Yes	🗌 No	
Is the Project location in the area of the Niagara Escarpment Plan?		🗌 Yes	🗸 No	
Is the Project location in the area subject to the Oak Ridges Moraine Co	nservation Plan?	Yes	🗸 No	
Is the Project location in the Protected Countryside as shown in Schedule 1 to the Greenbelt Belt Plan?				
Is the Project location in the Lake Simcoe Watershed as defined in the L	ake Simcoe Protection Act, 2008?	🗌 Yes	🖌 No	
Is the Project location in the Central Pickering Development Planning Ar Development Plan?	ea as shown in Schedule 1 to the Central Pickering	☐ Yes	☑ No	
Has an Archaeological Report (s. 22) been prepared as part of the comp	plete submission?	🗸 Yes	🗌 No	
Has a Heritage Report (s.23) been prepared as part of the complete sub	mission?	Yes	🖌 No	
Has an Environmental Impact Study Report (s.38, s. 41 or s. 43) been p	repared as part of the complete submission?	🗌 Yes	🖌 No	
Has a Water Assessment Report or supplementary reporting on any add prepared as part of the complete submission?	litional mitigation (s.39, s. 40, s.44 s. 45) been	🗌 Yes	🗸 No	
Does the Project require any authorizations under the Endangered Spec	ies Act, 2007?	🗌 Yes	🗸 No	
If "yes", have they been obtained from the Ministry of Natural Res	ources?	🗌 Yes	🗸 No	

Section 4 – Supporting Documents

4.1 – Supporting Documentation and Technical Requirements

This is a list of all supporting information to this application and is subject to the FIPPA and EBR

Mandatory	Attachment	A	ttac	hed	Reference	Confidential*
Yes	Proof of Legal Name of Applicant.	U Y	es	☑ No	Always Mandatory	
Yes	A map that identifies the project location.	□ Y	es	🗹 No	Always Mandatory	
	Name, Address and Phone Number of the Operating Authority.	<u>Р</u> Ү	es	☑ No	Mandatory if applicant not operating authority.	
	Name, Address and consent of land/site owner for the installation/construction and operation of the facility.	□ Y	es	☑ No	Mandatory if applicant not landowner	
Yes	Project Description Report.	U Y	es	🗸 No	Mandatory	
Yes	Design and Operations Report.	U Ye	es	🗹 No	Mandatory for all but Class 2 Wind Facility.	
Yes	Decommissioning Plan Report.	T Ye	es	☑ No	Mandatory for all but Class 2 Wind Facility.	
Yes	Construction Plan Report.	T Ye	es	🗸 No	Mandatory for all but Class 2 Wind Facility.	
Yes	Consultation Report.	T Ye	es	🗸 No	Mandatory for all but Class 2 Wind Facility.	
	Development Permit under the Niagara Escarpment Planning and Development Act.	□ Ye	es	🗸 No	Mandatory where permit required by NEC.	
Yes	A copy of this application has been sent to the Ministry local district office(s).	⊡ Ye	es	🗌 No	Always Mandatory	
	Report(s) that sets out a description of and rationale for the proposed change or alteration.	☑ Ye	es	🗌 No	Mandatory for Amendment to REA applications.	
	Document(s) required under Part IV the Regulation to be submitted as part of the application (list below).	□ Ye	es	🗸 No		
	Document(s) required for the purposes of obtaining an exemption from a provision of Part V of the Regulation (list below).	□ Ye	es	✓ No		

Other Information Submitted in Support of the Application for the issue of a new, or amendment to an existing, Renewable Energy Approval, including any document that is required under Part IV of the Regulation and/or for the purposes of obtaining an exemption from a provision of Part V of the Regulation.

Title	Reference	Confidential*
Cover letter sent to Peterborough District Office		
Modifications Document for REA # 0905-8S7M96	includes attachments A-G:	
	- Renewable Energy Approvals (for reference)	
	- Provincial Orders (for reference)	
	- Post-Construction Stormwater Mgmt Report	
	- Project Location Boundary Showing Modif.	
	- MNRF and MTCS Correspondence	
	- Stage 2 Archaeological Assessment	
	- Notice of REA Amendment	
Are you attaching an additional list of documents?	In If there is not enough space to list all of the attached doc	uments

included in this application package, please include an additional listing of these attachments.

*Note: The collection of personal information in this application is necessary to administer the Ministry's approvals program, which is authorized pursuant to the *Environmental Protection* Act. The personal information collected in this application will be used to administer the program, including for the purposes of the Ministry's compliance and enforcement activities under the aforementioned acts, and for the purposes of making information in respect of the Renewable Energy Approval available to the public with the exception of payment information. Questions about the collection of the information can be directed to a Client Service Representative, Environmental Approvals Access and Service Integration Branch, 135 St. Clair Avenue West, 1st Floor, Toronto Ontario M4V 1P5; Telephone outside Toronto 1 800 461-6290 or in Toronto 416 314-8001 or Fax 416 314-8452. 2074E (2015/04)

2074E (2015/04)



Ministry of the Environment and Climate Change

Renewable Energy Approval Application Payment Information

For Office Use Only			
Reference Number	Payment Received	Date (yyyy/mm/dd)	Initials
	\$		

Note: 1. All fees should be paid in Canadian funds, payable to the Ontario Minister of Finance.

- 2. Credit card payments are accepted for payments under \$10,000 only.
- 3. This page can only be mailed or faxed to our office with this application. For the protection of your credit card information, do not submit by email.
- 4. If you are paying by certified cheque or money order, please staple your payment to this page.
- 5. Do not include this page in the copies of your application that are being provided to the local MOE District Office or the local municipality(s).
- 6. The information collected in this section of the form is considered confidential and will only be used to process your application fee.

Amount enclosed

\$

Method of Payment	
Certified Cheque	
Money Order	
American Express	
🗌 Visa	
MasterCard	
Name on Card (please print)	a la suntra sun substitute analassa una materia da
Credit Card Number	Expiry Date (mm/ywy)

Credit Card Number	Expiry Date (mm/yyyy)
Cardholder Signature	Date (yyyy/mm/dd)

If paying by certified cheque or money order, please attach it here.	

Hamilton_Port Hope 4-Solar Energy Facility

MODIFICATIONS DOCUMENT TO REA# 0905-857M96

NOVEMBER 2016



Modifications Document

to REA # 0905-8S7M96

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- Attachment B: Provincial Orders (for reference)
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- Attachment D: Project Location Boundary Showing Modifications
- Attachment E: MNRF and MTCS Correspondence
- Attachment F: Stage 2 Archaeological Assessment
- Attachment G: Notice of REA Amendment

1. Introduction

Hamilton General Partner 1 Inc. and Hamilton General Partner 2 Inc., operating as Hamilton Solar Farm Partnership (the Company) has constructed a 10-megawatt (MW) solar photovoltaic project known as the Hamilton_Port Hope 4-Solar Energy Facility (the Project). The Project is located on approximately 40 hectares of privately-owned land on Lot 3, Concession 2, in the Township of Hamilton in Northumberland County. The project is located at 2720 Payn Road (west side of Payn Rd., south of Community Centre Rd.), in Baltimore, Ontario. A Renewable Energy Approval (REA) application was submitted to the Ontario Ministry of the Environment and Climate Change (MOECC) on July 12, 2011 in accordance with the requirements of *Ontario Regulation 359/09*.

On May 16, 2012, an REA was issued for the construction of the Project. The REA was subsequently amended on October 15, 2012 to accommodate a change in Project ownership and again on March 4, 2014 to accommodate equipment location changes (see *Attachment A*).

This Modifications Document has been prepared by Dillon Consulting at the request of Canadian Solar Solutions Inc., the engineering, procurement, and construction contractor (EPC Contractor) for the Project, in order to apply for a technical change amendment to the REA.

During project construction, sediment-laden water flowed from the site that had potential to cause negative environmental effects off-site. As a result of this runoff, the MOECC issued two provincial orders (dated April 3, 2014 and April 15, 2014) which required the uncontrolled discharge to be addressed. A third provincial order was issued on August 15, 2014 that detailed the requirements for surface water quality measurement and reporting, and emergency contingency planning (see **Attachment B**). The third order also restated the requirement for a permanent stormwater management (SWM) plan and implementation schedule.

The presence of sediment-laden runoff was a concern for neighbouring landowners. Consultation with neighbouring landowners started for this project in 2010, in accordance with the requirements of *Ontario Regulation 359/09*. Consultation has been ongoing since that time with regards to previous amendments and these currently proposed changes.

The premise for this new technical change amendment is to formalize the implementation of permanent SWM best practice features that have been, or are soon to be installed at the Project Location. To mitigate uncontrolled runoff, five temporary stormwater containment ponds were installed at the project location in Spring 2014. To ensure that the ponds were sized appropriately, three of the temporary ponds were installed on or outside the project location boundary permitted by the REA.

The Company and the EPC Contractor have been in frequent communication with the MOECC regarding the design and implementation of permanent stormwater management measures at the site. The permanent SWM design includes converting three of the five temporary ponds to permanent dry ponds, decommissioning the remaining two temporary ponds, and improving site grading to promote natural sheet flow. The permanent SWM design requires that a portion of one pond and four spillways remain outside the permitted project location boundary. Therefore, in addition to obtaining formal approval for

the permanent SWM measures, this technical amendment also describes the associated change to the project location boundary.

This Modifications Document outlines the permanent SWM design for the project and describes potential impacts to the natural environment and neighbouring landowners that may be anticipated as a result of its implementation. Details are contained in the Post-Construction Stormwater Management Report prepared by McIntosh Perry Consulting Engineers Ltd. and dated October, 2016 (*Attachment C*).

To review the preliminary design as submitted to the MOECC as part of the previously approved REA application, please refer to the project website: <u>http://www.pennenergyrenewables.com/solar-ontario/hamiltonph4.html</u>.

2. Technical Change Amendment Overview

The basis for this technical change amendment comes from Condition E1 of the REA, which states that:

• E1: "The Company shall employ best management practices for stormwater management and sediment and erosion control during construction, installation, use, operation, maintenance and retiring of the Facility, as described in the reports included in the Application and entitled Construction Plan Report, dated April 2011 (revised April 5, 2012) and prepared by Penn Energy Renewables, Ltd. and Stormwater Management Letter Report, dated May 15, 2012 and prepared by GENIVAR Inc."

While best practices are being employed at the project location to properly manage stormwater, the permanent stormwater measures described herein represent the explicit implementation of stormwater management best practices originally permitted in Condition E1. Although four spillways and one pond are located outside the permitted REA boundary, the changes detailed in the SWM plan and summarized in this Modifications Document result in a reduction of negative environmental effects and are a net benefit to the environment when compared to a scenario where the permanent SWM measures were not in place. The project location boundary modifications are illustrated in *Attachment D* and reflect a relatively minor change to the overall Project footprint.

The Ministry of Natural Resources and Forestry (MNRF) and the Ministry of Tourism, Culture and Sport (MTCS) have been consulted on the changes to the project location boundary and have responded indicating they have no concerns. Further details are found in **Section 5**. Therefore, Company is submitting this package to the MOECC as a technical change amendment to bring the Project Location boundary and layout into compliance with *Ontario Regulation 359/09*.

3. Contact Information

Should there be any questions about the proposed changes, please contact:

EPC Contractor:	Canadian Solar Solutions Inc.
Address:	545 Speedvale Avenue West, Guelph, ON. N1K 1E6
Telephone:	519-837-1881 ext. 2021 (Don)_ and 2341 (Mark)
Fax:	519-837-2550
Prime Contact:	Don Ling, Director of Projects, Energy Group
	Mark Feenstra, Senior Manager, Canada Region, Project Development Energy Group
Email:	Don.Ling@canadiansolar.com
	<u>Mark.Feenstra@canadiansolar.com</u>

4. Project Size and Layout

While the nameplate capacity of the project is unchanged at 10 MW alternating current (AC), the project location boundary has been modified in certain sections to accommodate the implementation of permanent SWM measures. All other project components (i.e., inverters, panel arrays, access roads, site entrances, substation, etc.) have remained in the locations permitted by the REA. The increase to the project location boundary is depicted in the comparison figure included in *Attachment D*; however, it should be noted that the comparison figure is a visual approximation and not representative of legal surveys for drawings issued for construction.

5. Ministry Consultation

Due to the nature of the changes, consultation with the MOECC, MNRF and MTCS has occurred to ensure that environmental effects are properly addressed and mitigated. Extensive consultation has occurred between the MOECC and the EPC Contractor regarding the implementation of the permanent SWM design. The following sections provide an overview of consultation undertaken with the MNRF and MTCS.

5.1 Ministry of Natural Resources and Forestry

On May 10, 2016, a letter was submitted to the MRNF which provided an overview of the changes to the project location and layout. The letter concluded that while no additional potential environmental effects were anticipated as a result of the technical change amendments, setback distances from

significant natural features have changed as a result of the permanent SWM implementation as outlined in **Table 1**.

	Previous	Revised	
	minimum	minimum	
Feature	setback	setback	Comment
	distance	distance	
	(m)	(m)	
Woodland A	38 m	15.01 m	Setback maintains protection of tree root zone
Valleylands	43 m	٦	No longer applicable to solar projects.
WildlifeMovement	50 m	27.01	No additional environmental effects
Corridors (associated			anticipated.
with Valleyland 2)			
WildlifeMovement	40 m	-5.54	The spillway extends into the general area of
Corridors (associated		(spillway	the feature. No additional environmental
with Valleyland 3)		extends	effects are anticipated for use of this feature as
		into	wildlife habitat.
		feature)	
WildlifeMovement	43 m	43 m	No change in setback.
Corridors (associated			
with Valleyland 4)			
Foraging Areas with	108 m	108 m	No change to setback.
Abundant Mast			
Upstream Seep 2	76 m	53.01 m	Seep outside the 50 m setback. No additional
			environmental effects.
Upstream Seep 3	46 m	0.46 m	Seep is located near the end of the spillway and
			within the intermittent watercourse. Water
			from the site monitored for quality/quantity.
			No additional environmental effects anticipated
			for use of this feature as wildlife habitat.
Upstream Seep 4	156 m	156 m	No change in setback.
Isolated Seep	115 m	115 m	No change in setback.

 Table 1:
 Changes to Setback Distances from Significant Natural Features

On May 18, 2016, the MNRF confirmed by email that the mitigation measures previously outlined as part of the NHA Environmental Impact Study remain sufficient despite the decreases in setback distances noted above. This email is included in *Attachment E* and confirms that the NHA confirmation letter issued on April 20, 2011 remains valid.

5.2 Ministry of Tourism, Culture and Sport

The implementation of the permanent SWM measures at the project location resulted in the development of areas not studied for archaeology as part of the original REA application. The MTCS requested that the setback limits from previously identified archaeological sites BaGm-11 and BaGm-12 be maintained, and that additional Stage 2 Archaeological Assessment be completed on the lands that were not studied as part of the original REA application.

Additional Stage 2 archaeological work was conducted by The Archaeologists Inc. in May 2016 to study areas of development that fell outside the permitted REA boundary. The study confirmed that no archaeological or cultural heritage resources were identified and recommended that no further archaeological work is required. The study also confirmed that the appropriate buffer distances from BaGm-11 and BaGm-12 would be maintained (as the boundary was not modified in these areas). The supplementary Stage 2 Archaeological Assessment was submitted to MTCS for their review and they provided their acceptance of the report into the Archaeological Register on July 22, 2016. See *Attachment F*.

6. Post-Construction Stormwater Management Report

The formalized SWM plan is described in detail in the Post-Construction Stormwater Management Report (see *Attachment C*).

The report assesses the pre- and post-construction stormwater conditions and provides a permanent SWM design that is in compliance with MOECC guidelines and standards.

The SWM plan ensures that post-development stormwater drainage is consistent with pre-development drainage patterns. The key features of the plan include resizing and converting three temporary ponds into three permanent ponds which have restricted but free-flowing outlets, decommissioning two temporary ponds and implementing a number of features throughout the site that promote surface sheet flow and natural water absorption.

The three permanent ponds have been sized to accommodate the 100-year, 24-hour storm scenario and possess the typically-accepted 0.30m freeboard over the 100-year level. The ponds are dry and generally grass-lined so that they provide a maximum area for water absorption/infiltration and fully discharge. In general, flow from impervious areas on the site is collected in roadside ditches. Collected flows are introduced into ponds utilizing drop structures and plunge pools. Sheet flow runoff over grassed slopes provides the opportunity for large particle settlement. Where possible, sheet flow or quasi-sheet flow (utilizing road-crossing culverts and flow dissipators) has been implemented so as to minimize concentrated flow exiting the site boundaries.

The rehabilitation plan includes construction implementation details to minimize possible erosion and sedimentation concerns during and immediately following construction.

For Pond 10, located at the northern corner of the project location, two outlet design alternatives are proposed. The alternatives are mutually exclusive and each design alone is in compliance with MOECC design guidelines (i.e., only one is required). The Company would prefer to implement Alternative 1. The alternatives are described below:

<u>Alternative 1</u>: Install an outlet control (pipe with orifices) that would discharge stormwater collected from the Block 10 area into the municipal right-of-way, through Payn Road, across adjacent private land, and into a Baltimore Creek tributary.

<u>Alternative 2</u>: Install a pump that would activate to empty Pond 10 when stormwater is detected. The pump would be sized such that the discharge rate over the duration of discharge from Pond 10 would be similar to that in Alternative 1. Stormwater would be pumped between drainage areas B2 and B10 where it would flow via gravity behind the house on the property.

Both alternatives have been incorporated into this Modifications Document and SWM Plan to provide flexibility for implementation pending ongoing neighbor consultation.

Both the MOECC and the Township of Hamilton have been consulted at length about the two Pond 10 discharge alternatives. The MOECC has indicated agreement with either alternative. Conversations continue with the Township; however, it is not anticipated that they will have outstanding concerns, provided that landowner comments are resolved.

Since the post-construction SWM design keeps post-construction flow patterns similar to preconstruction patterns, the Company believes that downstream neighbours will see negligible differences in flow rate (or in the case of the neighbours adjacent to the Baltimore Creek tributary path, actually less flow rate) through established waterways compared to pre-construction conditions. The Company will continue to engage adjacent neighbours regarding stormwater management measures to be installed at the Project Location, as appropriate.

The SWM features such as ponds and ditches and the vegetated surface will be maintained concurrently with regular solar facility maintenance activities and inspections.

7. Amendments to the REA Application

Table 2 outlines which reports in the original REA submission (approved by MOECC on May 16, 2012 and as modified in 2014) would be modified by the changes outlined in this Modifications Document.

Report	Relevant Section
Project Description Report	Section 3 Specific Project Information
	Section 5 Project Location Map (Project Boundary)
Construction Plan Report	Section 2.2 Facility and Equipment Installation
Design and Operations Report	Section 2.0 Site Plans (Appendix A)
	Section 3.0 Facility Design
	Section 4.3 Ancillary Activities
	Section 4.4 Potential Negative Environmental Effects
	Section 5.0 Environmental Effect Monitoring Plan
Decommissioning Plan Report	Section 2.1 Decommissioning After Ceasing Operation
Archaeological Assessment	Figure 2, Project boundary
Natural Heritage Assessment	Part 1, Figure 3, Location of Candidate Significant Natural Features
(NHA)	(project location boundary)
	Part 2, Figure 2, Study Area (project location boundary)
	Part 2, Figure 3, Location of Candidate Significant Natural Features
	(project location boundary)
	Part 2, Figure 4, Habitat Mapping of Study Area (project location boundary)
	Part 3, Figure 2, Study Area (project location boundary)
	Part 3, Figure 3, Location of Candidate Significant Natural Features (project location boundary)
	Part 3, Figure 4, Habitat Mapping of Study Area (project location boundary)
	Part 3. Figure 5. Location of Woodland Forest Patches (project
	location boundary)
	Part 3, Figure 6, Location of Candidate Significant Valleylands
	(project location boundary)
	Part 3, Figure 7, Location of Significant Natural Heritage Features
	(project location boundary)

Table 2: Proposed Changes to the Original REA Application

Environmental Impact Study	Figure 2, REGF Study Area (project location boundary)
Report	Figure 3, Location of Significant Natural Heritage Features (project
	location boundary)
	Figure 4, Location of Woodland Forest Patches (project location
	boundary)
	Sec. 5.0 Additional Measures and Best Management Practices
Acoustic Assessment Report	Figure 2, Key Location Plan with Points of Reception (project
	location boundary)
	Figure 3, Location of Sound Sources (project location boundary)
	Figure 4, Predicted Sound Level Contours (Leq) at 4.5 m Above
	Grade (project location boundary)
Water Assessment Report	Figure 2, Study Area Boundaries (project location boundary)
	Figure 3, Location of Candidate Water Bodies (project location
	boundary)
	Figure 4 Location of Candidate Water Bodies including fish habitat
	information (project location boundary)
	Figure 5, Location of Confirmed Water Bodies (project location
	boundary)
	6.1 Solar Facility Project Description and Anticipated Potential
	Impacts
	6.2 Construction/ Decommissioning Phases
	6.3 Operational Phase
	6.4 Water Body Report Conclusion and Monitoring Plan

8. Conclusion

The changes to implement permanent SWM features at the Project outlined in this Modifications Document do not create any additional potential negative environmental effects to natural features, water bodies or neighbouring residents for which mitigation was not already proposed in subsequent submissions for this project. Rather, the changes to the project location and layout represent a net benefit to the environment. A Notice of REA Amendment and covering letter outlining the proposed technical changes will be distributed to all project stakeholders during the week of November 7, 2016. The Notice of REA Amendment will be published in *"Northumberland Today"* during the week of November 7, 2016. A copy of the letter and notice sent are included in *Attachment G.*