



CANADIAN NIAGARA POWER INC.

A FORTIS ONTARIO Company

MicroFIT-Generation Connection Application

For Connection of Micro-Generation Facilities of ≤ 10 kW

NOTE: Applicants are cautioned NOT to incur significant expenses until Canadian Niagara Power Inc. has issued an *Offer to Connect* for the proposed generation facility and the Ontario Power Authority has provided them with a conditional microFIT contract.

This application is applicable to individual or multiple generating units at the Applicant's facility with total nameplate rating of 10 kW or less. The applicant's generation facility must generate electricity from a renewable energy source that is wind, water, solar radiation, or agricultural biomass.

The Applicant must provide the following prior to CNPI processing this application:

- a) Application Processing Fee: \$226.00 (\$200.00 plus H.S.T.) This is a non-refundable fee that covers the cost of processing this application and a technical assessment by CNPI of your proposed project. There will be additional payments which will be required prior to the actual connection of your project.

There will be a connection capacity assessment performed for all proposed generation connections, including projects to be included in the OPA MicroFIT program. There may be a limitation on the number of generation facilities that can be connected to the same distribution transformer, feeder, or substation. Insufficient generation capacity will be sufficient grounds to deny this application.

IMPORTANT: All fields below are mandatory, except where noted. Incomplete applications will be not be processed and returned by Canadian Niagara Power Inc.

Please submit the completed form and payment, by mail or in person, to:

Canadian Niagara Power Inc.
Attn: FIT Program
1130 Bertie Street
Fort Erie, ON, L2A 5Y2
TEL: (905) 871-0330

Eastern Ontario Power
Attn: FIT Program
P.O. Box 1179
Cornwall, ON, K6H 5V3
TEL: (613) 382-2118

Inquiries: Email: microFIT@cnpower.com

Date of Application: _____ (dd / mm / yyyy)

1. MicroFIT reference number*:

(*not required for Net Metering applications or new application. Provide if this project is a re-application of a prior submission)

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2. Project/Customer Name: _____

3. Proposed In-Service Date: _____ (yyyy / mm / dd)

4. Project Information:

	Applicant (mandatory)	Electrical Technical Consultant (optional)
Company/Person		
Contact		
Mailing address line 1		
Mailing address line 2		
Telephone		
Cell		
Fax		
Email		

5. Project Location: Address _____
 City/Town/Township _____
 Lot Number(s) _____
 Concession Number(s) _____

6. Program Type:

A. microFIT (**Complete all sections**)

B. Net Metering to microFIT Conversion

i) Existing Net Metering Customer *upgrading* generation size and/or technology/ fuel type, up to 10 kW (**Complete all sections**)

ii) Existing Net Metering Customer with *no upgrades* in generation size and/or technology/ fuel type, up to 10 kW (**Complete sections 7, 8 and 9 only**)

C. Net Metering (**Complete all sections**)

7. Customer Status:

Are you an existing Canadian Niagara Power Inc. Customer? Yes No

If yes, Canadian Niagara Power Inc. Account Number: _____

Name of Account Holder*: _____

(*must be the same name as applicant)

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8. Are you an HST registrant? Yes No

If yes, provide your GST registration number: _____ - _____ RT _____

9. Project Size:

Number of Units _____
Nameplate Rating of Each Unit _____ kW
Generator connecting on single phase three phase
Existing Total Nameplate Capacity _____ kW
Proposed Total Nameplate Capacity _____ kW

10. Fuel Type:

Wind Turbine Hydraulic Turbine
 Solar/Photovoltaic Cells (Rooftop mount) Solar / Photovoltaic Cells (Ground mount)
 Biomass Bio-diesel
 Bio-gas Other (*please specify*): _____

11. Customer Owned Step-up Interface Transformer (*if applicable*):

Do you own the distribution transformer servicing the address for this project? Yes No
(Complete rest of section 11 ONLY if you own your transformer)

a. Transformer rating _____ kVA

b. High voltage winding connection Delta Star
Grounding method of star connected high voltage winding neutral
 Solid Ungrounded Impedance grounded: R _____ X _____ ohms

c. Low voltage winding connection Delta Star
Grounding method of star connected low voltage winding neutral
 Solid Ungrounded Impedance grounded: R _____ X _____ ohms

Note: The term 'High Voltage' refers to the connection voltage to Canadian Niagara Power Inc.'s distribution system and 'Low Voltage' refers to the generator / inverter output voltage.

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12. Generator / Inverter Information:

(For generation facilities installing more than one type of generator, complete section 10)

- a. Manufacturer: _____
- b. Model No. _____
- c. Number of phases Single Phase Three Phase
- d. Nameplate rating: _____ kW
- e. Generator / Inverter AC output voltage _____ Volts
- f. Type of inverter: Self-commutated Line-commutated Other, please specify _____
- g. Are power factor correction capacitors automatically switched off when generator breaker opens?
 Yes No
- h. Is the generator / inverter paralleling equipment and / or design pre-certified and meets anti-islanding test requirements? Yes No
- i. If answer to the above question is Yes, to which standard(s),
E.g. CSA C22.2 No. 107.1-01, UL1741, etc. _____
- j. Method of synchronizing the generator / inverter to Canadian Niagara's system
 Manual Automatic
- k. Maximum Inrush Current upon generator or inverter connection (I_{inrush} / I_{rated}) _____ per unit

13. Grid Interface Controller (if applicable):

- a. Manufacturer: _____ Model Number: _____

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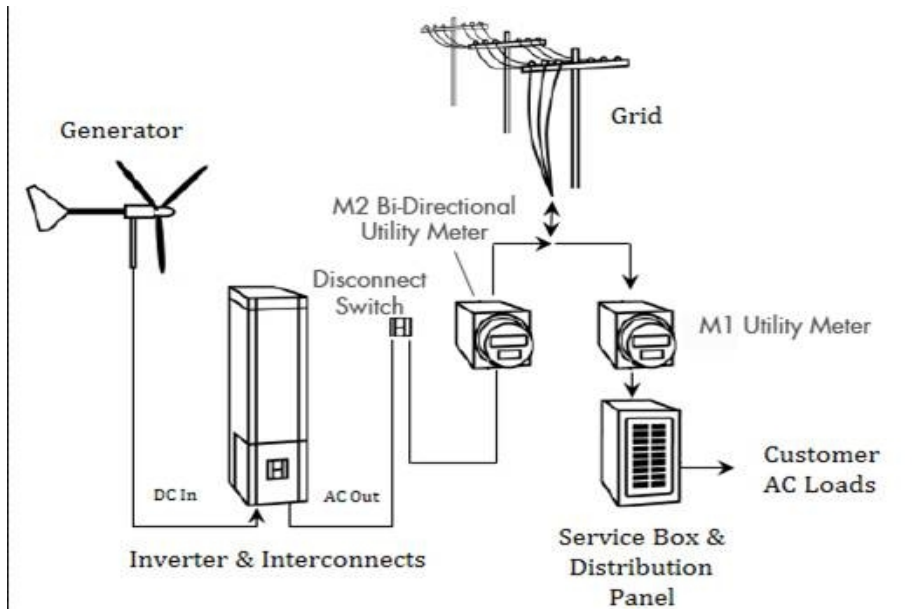
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14. Type of Connection:

Due to Federal regulatory requirements, the generator must be directly connected to the CNPI system through a separate and distinct revenue meter. The use of indirect or series-connected revenue metering is **prohibited**.

Diagram 1 - Typical Parallel Metering Connection

Source: Solera Sustainable Energies Company Limited



15. Connection to Canadian Niagara Power Inc.'s Distribution System:

(To be completed by Canadian Niagara Power Inc.)

- Connection voltage to Canadian Niagara Power Inc.'s distribution system: _____ kV
- Station: _____
- Feeder: _____

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General Terms and Requirements:

1. By submitting this application, the Applicant authorizes the collection by Canadian Niagara Power Inc. ("CNPI"), of the information set out in this application and otherwise collected in accordance with the terms hereof, the terms of CNPI's Conditions of Service, CNPI's Privacy Policy and the requirements of the Distribution System Code and the use of such information for the purposes of the connection of the generation facility to CNPI's distribution system and all related services.
2. Applicants are reminded that all provisions of the Distribution System Code (DSC) and CNPI's Conditions of Service are applicable for this connection. In particular, applicants are cautioned that CNPI cannot guarantee continuous and uninterrupted electrical supply to any part of its distribution system. Although CNPI will use reasonable diligence to ensure consistent electrical reliability and power quality, occasional outages and abnormal voltages may still occur. CNPI is not responsible for any financial loss, damage or injury incurred by the Applicant as a result of such events.
3. As required by the DSC, all applications will be subjected to a Capacity Screening Test (CST) by CNPI, to ensure that there is sufficient remaining generation capacity available. This test reviews the capacity at the Transmission Substation and Transmission Network that supplies electricity to the relevant portion of CNPI's distribution system to be used by the applicant. If this application fails the CST, it will be denied with no further review.
4. Inverter-based generating units must not inject DC greater than 0.5% of the full rated output current at the point of connection of the generating units. The generated harmonic levels must not exceed those given in the CAN/CSA-C61000-3-6 Standards.
5. In connection with CNPI's obligation to maintain the safety and reliability of its distribution system, you acknowledge, warrant and agree:
 - a. That in the event CNPI determines that your generation facility (i) causes damage to; and/or (ii) adversely affects other distribution system customers or CNPI's assets, you will disconnect your generation facility immediately from the distribution system upon direction from CNPI and correct the problem at your own expense prior to reconnection.
 - b. That you have installed or will install prior to the connection of your generation facility to CNPI's distribution system, an isolation device satisfying Section 84 of the Ontario Electrical Safety Code and agree to allow CNPI's staff access to and operation of this as required for the maintenance and repair of the distribution system.
 - c. To perform regular scheduled maintenance to your generation facility as outlined by the manufacturer in order to assure that connection devices, protection systems, and control systems are maintained in good working order and in compliance with all applicable laws.

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- d. That during a power outage on CNPI's distribution system your generation facility will shut down, unless you have installed special transfer and isolating capabilities on your generation facility. You agree to the automatic disconnection of your generation facility from CNPI's distribution system, as per the generator protective relay settings set out in this Application, in the event of a power outage on CNPI's distribution system or any abnormal operation of CNPI's distribution system.
 - e. That the design, installation, maintenance, and operation of your generation facility are conducted in a manner that ensures the safety and security of both the generation facility and CNPI's distribution system.
6. Applicants are cautioned that they are **NOT permitted** to interconnect any new generation to CNPI's distribution system without CNPI's express permission **under any circumstances**. In addition, provincial regulations and CNPI policies require that CNPI (or an agent of CNPI) perform a verification of new generation connection facilities and must be in attendance to install the appropriate revenue metering prior to interconnection. Failure to abide by these requirements will result in refusal by CNPI to connect the new generation installation.
7. **Liabilities:** The Applicant will indemnify and save harmless for all damages and/or adverse effects resulting from any reasonable CNPI's operation of its distribution system or events that may occur from time to time that affect this distribution system. CNPI shall not be liable to the Applicant under any circumstances whatsoever for any loss of profits or revenues, business interruptions losses, loss of contract or loss of goodwill, or for any indirect, consequential, incidental or special damages, including but not limited to punitive or exemplary damages, whether any of the said liability, loss or damages arise in contract, tort or otherwise.

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STATEMENT BY PROPERTY OWNER OF MICROFIT PROJECT LOCATION

(Completion of this section is MANDATORY if Applicant does not own the property where the proposed microFIT project is to be constructed.)

- 1) I affirm that I have read and understood all information, terms, and conditions contained in this application.
- 2) I understand that by signing this document, I am expressly allowing the microFIT Applicant to be provided with an *Offer to Connect* from Canadian Niagara Power Inc. (CNPI). The *Offer to Connect*, when executed by the Applicant, will form a binding *Connection Agreement* between the Applicant and CNPI as per the Ontario Distribution System Code, and that this Connection Agreement will be a legal contract between the Applicant and CNPI.
- 3) I understand and accept that the Applicant will have an ongoing obligation to perform regular maintenance on this microFIT installation, and that this obligation will require periodic visits to my property.
- 4) I am authorizing CNPI to deem that the Applicant has the right to install and maintain a microFIT installation on my property. I further agree to allow the Applicant to act as my agent with CNPI in such matters as, but not necessarily limited to, discussions with CNPI regarding changes to my existing load service(s), arranging for disconnection and reconnection of my existing load service(s), and making applications with the Electrical Safety Authority (ESA) for Electrical Permits and Connection Authorizations.
- 5) I am authorizing release, by CNPI to the Applicant, of any information related to my existing electrical load service(s) as may be reasonably required in the design, installation, or commissioning of this microFIT installation.
- 6) I agree that, as a result of my allowing the installation of this microFIT project, CNPI shall not be liable to any property owners under any circumstances whatsoever for any loss of profits or revenues, business interruptions losses, loss of contract or loss of goodwill, or for any indirect, consequential, incidental or special damages, including but not limited to punitive or exemplary damages, whether any of the said liability, loss or damages arise in contract, tort or otherwise, that can reasonably be considered to have arisen from this microFIT project.

Name of Property Owner
(Please Print)

Signature

Date

Name of Witness
(Please Print)

Signature

Date

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STATEMENT BY MICROFIT APPLICANT (mandatory):

- 1) I affirm that I have read and understood all information, terms, and conditions contained in this application.
- 2) I certify that all submitted information in this application is correct, and that Canadian Niagara Power Inc. (CNPI) is not responsible for any errors or omissions in this information. I understand that incorrect information may result in delays or cancellation of this project.
- 3) I understand that by completing this document, I am expecting be provided with an *Offer to Connect* from CNPI. The *Offer to Connect*, when executed, will form a binding *Connection Agreement* with CNPI as per the Ontario Distribution System Code, and that this *Connection Agreement* will be a legal contract between CNPI and me.
- 4) I understand and accept that as a microFIT project owner, I will have an ongoing obligation to perform regular maintenance on this microFIT installation, and that I am solely responsible for maintaining this installation in good working order.
- 5) Select one of the following (check and initial):
 - _____ I hereby authorize the person or organization identified as the Electrical Technical Consultant in section 4 on page 2 of this document to act as my agent with CNPI in such matters as, but not necessarily limited to, discussions with CNPI regarding changes to existing load service(s), arranging for disconnection and reconnection of existing load service(s), and making applications with the Electrical Safety Authority (ESA) for Electrical Permits and Connection Authorizations. I further authorize CNPI to release any information related to this project to this agent as may be reasonably required in the design, installation, or commissioning of this microFIT installation.
 - _____ At this time, I do not authorize any other person or other organization to act as my agent with CNPI for this microFIT application.
- 6) I agree that, as a result of this microFIT project, CNPI shall not be liable to the Applicant under any circumstances whatsoever for any loss of profits or revenues, business interruptions losses, loss of contract or loss of goodwill, or for any indirect, consequential, incidental or special damages, including but not limited to punitive or exemplary damages, whether any of the said liability, loss or damages arise in contract, tort or otherwise, that can reasonably be considered to have arisen from this microFIT project.

Name of Applicant
(Please Print)

Signature

Date

Name of Witness
(Please Print)

Signature

Date

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