

1. Applicant Contact Informa facility)	tion (the party that will be contractually obligated for this generating
Company Name	
Street Address	
Mailing Address (if different)	
Representative Name	
Representative Title	
Phone Number (Main)	Cell
Fax Number	Email
2. Facility Contact Information	on (where the generating facility will be installed)
Company Name	
Street Address	
Mailing Address (if different)	
Representative Name	
Representative Title	
Phone Number (Main)	Cell
Fax Number	Email
Hydro Account Number (if any)	
3. Project Design / Engineeri	ing (where the generating facility will be installed)
Company	
Street Address	
Mailing Address (if different)	
Representative Name	
Representative Title	
Phone Number (Main)	Cell
Fax Number	Email
4. Electrical Contractor	
Company	
Street Address	
Mailing Address (if different)	
Representative Name	
Representative Title	
Phone Number (Main)	Cell
Fax Number	Email

5. Applicant's Ownership Interest in the Generation System

Owner

Lease Other

Co-owner



On-site Use of Power Net Metering Commercial power sales to a third party	
Participate in IESO or other government incentive program	
f on-site use of power, please describe the mode of operation:	
eak shaving/demand management	
rimary power/base load	
f load displacement (new or existing)	
Combined heat and power or cogeneration	
itandby/emergency/backup	
Other:	
7. Interconnection Request is for:	
\Box A proposed new generation facility \Box An increase in generation capacity or a material modification of an existing facility	
8. Type of Interconnection Operation	
Parallel Operation Momentary Parallel Operation Isolated Operation	
(if checked, no application ne	cessary)
(if checked, no application ne 9. Nameplate Rating, Electricity Use, production and Purchases	cessary)
(If checked, no application ne 9. Nameplate Rating, Electricity Use, production and Purchases lameplate rating of generation facility (ie: Total of all inverters AC	cessary)
(If checked, no application ne 9. Nameplate Rating, Electricity Use, production and Purchases lameplate rating of generation facility (ie: Total of all inverters AC utput) A) Anticipated annual electricity consumption of the facility or site	cessary) kW kWh
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(b) AC & DC Control Schematics: for projects with induction or synchronous generators show the detailed wiring and device numbers of all protective relays and control functions and which devices they operate using IEEE or Hydro One terminology and symbols.

(c) Site Plan: show major equipment, electric service entrance, electric meter, location of distributed generation and interface equipment, location of disconnect switch, adjoining street name, and street address of distributed generation.

12. Design Requirements

(a) Has the proposed distributed generation paralleling equipment been certified?

and control equipment using IEEE or Hydro One terminology and symbols.

🗌 Yes 🗌 No

(b) If not certified does the proposed distributed generator meet the operating limits defined in your LDC's technical specifications?

🗌 Yes 🗌 No



For items 12(a) and 12(b), if your answer is yes, please furnish details (e.g., copies of manufacturer's specifications).

If your answer is no, please either contact the equipment manufacturer and determine the status of certification or advise of your plans to demonstrate compliance.

13. Generator Informat	ion (complete	for each gen	erator)		
<u>Generator No. 1</u>					
Manufacturer			Model No.		
Version No.			Serial No.		
Generation Type:					
□ Single Phase □ Three Pha	ase 🗌 Synchro	nous 🗌 Ind	uction 🗌 Inverter 🗌	Other:	
Prime Mover / Energy Source:					
🗌 Wind 🗌 Water 🗌 Sun (] Biomass []	Natural Gas	Steam Other:		
Eligible for IESO FIT contract?	🗌 Yes 🗌	No	IESO FIT Contract No.:		
Ratings: Prime	Standby		kW	kVA	volts (output)
Rated Current	amps	Frequency	hertz	Rated Power Factor	%
Power Factor Adjustment Rang	e:		Min	Max	
If three-phase, winding configu	ıration: 🗌 3	wire delta	☐ 4 wire wye		
<u>Generator No. 2</u>					
Manufacturer			Model No.		
Version No.			Serial No.		
Generation Type:					
Single Phase 🗌 Three Pha	ase 🗌 Synchro	nous 🗌 Ind	uction 🗌 Inverter 🗌	Other:	
Prime Mover / Energy Source:					
🗌 Wind 🗌 Water 🗌 Sun (] Biomass []	Natural Gas	🗌 Steam 🗌 Other:		
Eligible for IESO FIT contract?	🗌 Yes 🗌	No	IESO FIT Contract No.:		
Ratings: Prime	Standby		kW	kVA	volts (output)
Rated Current	amps F	requency	hertz	Rated Power Factor	%
Power Factor Adjustment Rang	e:		Min	Max	
If three-phase, winding configu	ıration: 🗌 3	wire delta	4 wire wye		



Neutral grounding system used:			
Ungrounded Solidly grounded	ground resi	stor (ohms)	
For synchronous generators (per unit rate	d KVA base)		
Note: If information requested is not appli	cable, indicate b	y marking N/A	
Synchronous reactance - saturated	(X _{dv} %)	Synchronous reactance - unsaturated	(X _{di} %)
Transient reactance - saturated	(X′ _{dv} %)	Transient reactance - unsaturated	(X′ _{di} `%)
Sub-transient reactance - saturated	(X'' _{dv} %)	Sub-transient reactance - unsaturated	(X″ _{di} %)
Zero sequence reactance – saturated	(X0 _∨ %)	Zero sequence reactance – unsaturated	(X0 _i %)
Negative sequence reactance - saturated	(X2 _v %)	Negative sequence reactance - unsaturated	(X2 _i %)
For induction generators (per unit rated K	VA base):		
Locked rotor current	(amps)	Stator leakage resistance	(R _s %)
Rotor resistance	(Rr %)	Rotor leakage resistance	(RI %)
For generators greater than 1 MW:			
M1 (momentum constant)		M2 (momentum constant)	
Field Current		Field Voltage	
Rotor reactance	(Xr %)	Stator reactance	(Xs %)
Short circuit reactance	(X _d "%)	Magnetizing reactance	(X _m %)
Note: If there are more than 2 generators	, attach an addit	onal sheet describing each.	
14. Interface Information			
Generator Synchronizer		Inverter for DC Generator	
Manufacturer		Manufacturer	
Rating		Rating	
Model Number		Model Number	
Automatic or Manual Synchronizor	c	Line or	
	5		



15. Protective Equipment

Protective Device 1	Protective Device 2	
Range of Available Settings	Range of Available Settings	
Trip Time	Trip Time	
Manufacturer	Manufacturer	
Trip Set Point	Trip Set Point	
Describe operation for	Describe operation for	
disconnecting the generator	disconnecting the generator or	
or inverter in the event of a	inverter in the event of a	
distribution system outage:	distribution system outage:	
Describe operation for	Describe operation for	
disconnecting the generator	disconnecting the generator or	
or inverter in the event of a	inverter in the event of a	
distribution system short	distribution system short circuit	
circuit (three phase and	(three phase and single phase to	
single phase to ground)	ground)	

Complete all applicable items. Add separate sheets if necessary for more devices.

16. Short Circuit Current Contribution of the Proposed Generating Facility

Distribute (d Genera (filled out	tor Short Cir t by applican	cuit Current t)	Assumption of Distribution S Current (filled out	ystem Short Circuit by LDC)
Single Phase to Ground amps		Single Phase to Ground	amps		
Three-Pha	se Symme	etrical	amps	Three-Phase Symmetrical	amps
Three-Phas	e Asymme	etrical	amps	Three-Phase Asymmetrical	amps
17. Short	t Circuit I	nterrupting	Rating of Interc	connection Disconnection Devic	ce
		amps (asym	metrical)	amps (symn	netrical)
18. Does the Proposed Generating Facility start with the aid of grid power? Yes No If yes, what is the inrush current amps (inrush current)					
19. Will t	he Propo	sed Generat	ing Facility have	e a dedicated transformer?	
☐ Yes	🗌 No	If yes, pl	ease describe:	Rating KVA Primary Volts Secondary Volts Impedance	
				Type of transformer connection Available fixed taps	



20. Metering Configuration and Connection

Series Parallel Direct

21. Other Comments, Specifications and Exceptions (attach additional sheets if needed)

22. Applicant and Project Design / Engineering Signature

To the best of my knowledge, all the information provided in this Application Form is complete and correct.

Applicant Signature

Project Design / Engineering

Date (yyyy/mm/dd)

Date (yyyy/mm/dd)

23. Release of Personal Project Related Information (check applicable)

- ☐ I hereby grant Halton Hills Hydro Inc. permission to correspond with, meet, and release project related information to the installer of my project.
- ☐ I hereby request that once prepared, Halton Hills Hydro Inc. sends the Connection Cost Agreement, Offer to Connect, and Connection Agreement to my installer rather than myself.

Applicant Signature

Date (yyyy/mm/dd)

This form and all other technical documents made with this submission (single line diagram, site plan, load details, etc...) must by signed and sealed by a Professional Engineer licensed by the Professional Engineers of Ontario.

Please complete and return this form to Halton Hills Hydro Inc., Engineering Department.