

1. Applicant Contact Information (the party that will be contractually obligated for this generating facility) Company Name Street Address Mailing Address (if different) Representative Name Representative Title Phone Number (Main) Cell ___ Email Fax Number 2. Facility Contact Information (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 / Engineering (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 ☐ Co-owner ☐ Lease ☐ Other



6. Primary Intent of the Generation System			
☐ On-site Use of Power ☐ Net Metering ☐ Commercial power sales to a third party			
☐ Participate in IESO or other government incentive program			
If on-site use of power, please describe the mode of operation:			
Peak shaving/demand management			
Primary power/base load			
If load displacement (new or existing)			
Combined heat and power or cogeneration			
Standby/emergency/backup			
Other:			
7. Interconnection Request is for:			
$\ \square$ A proposed new generation facility $\ \square$ 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 necessary)			
9. Nameplate Rating, Electricity Use, production and Purchases			
Nameplate rating of generation facility (ie: Total of all inverters AC output) kW			
(A) Anticipated annual electricity consumption of the facility or site kWh			
(B) Anticipated annual electricity production of the generation system. kWh			
(C) Anticipated annual electricity exports (i.e. (B) minus (A) kWh			
Value will be negative if there are no net sales to the distribution system.			
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10. Estimated Construction Start and Completion Dates			
Start Date			
Target in-service date			
11. Electricity Use, production and Purchases			
(a) Provide single line schematic diagram of the system: show generator size and all protective relaying and control equipment using IEEE or Hydro One terminology and symbols.			
(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?			
☐ Yes ☐ No			
(b) If not certified does the proposed distributed generator meet the operating limits defined in your LDC's technical specifications?			
□ Vos □ 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 de certification or advise of your plans to demonstrate compliance.	termine the status of	
13. Generator Information (complete for each generator)		
Generator No. 1		
Manufacturer Model No.		
Version No. Serial No.		
Generation Type:		
☐ Single Phase ☐ Three Phase ☐ Synchronous ☐ Induction ☐ Inverter ☐	Other:	
Prime Mover / Energy Source:		
☐ Wind ☐ Water ☐ Sun ☐ Biomass ☐ Natural Gas ☐ Steam ☐ Other:_		
Eligible for IESO FIT contract?	:	
Ratings: Prime Standby kW	kVA	volts (output)
Rated Currentamps_ Frequencyhertz_	Rated Power Factor	%
Power Factor Adjustment Range: Min	Max	
If three-phase, winding configuration: 3 wire delta 4 wire wye		
Generator No. 2		
Manufacturer Model No.		
Version No. Serial No.		
Generation Type:		
☐ Single Phase ☐ Three Phase ☐ Synchronous ☐ Induction ☐ Inverter ☐	Other:	
Prime Mover / Energy Source:		
☐ Wind ☐ Water ☐ Sun ☐ Biomass ☐ Natural Gas ☐ Steam ☐ Other:_		
Eligible for IESO FIT contract?		
Ratings: Prime Standby kW	kVA	volts (output)
Rated Current <u>amps</u> Frequency <u>hertz</u>	Rated Power Factor	%
Power Factor Adjustment Range: Min	Max	
If three-phase, winding configuration: 3 wire delta 4 wire wye		



Neutral grounding system used:				
☐ Ungrounded ☐ Solidly grounded	☐ ground resi	stor (ohms)		
For synchronous generators (per unit rat	ed KVA base)			
Note: If information requested is not app	olicable, 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 _v %)	Zero sequence reactance - unsaturated	- I <u>(X0_i %)</u>	
Negative sequence reactance -		Negative sequence reactance -	=	
saturated	(X2 _v %)	unsaturated	(X2 _i %)	
For induction generators (per unit rated	KVA base):			
Locked rotor current	(amps)	Stator leakage resistance	(R _s %)	
Rotor resistance	(R _r %)	Rotor leakage resistance	(R _I %)	
For generators greater than 1 MW:				
M1 (momentum constant)		M2 (momentum constant)		
Field Current				
Rotor reactance	(X _r %)			
Short circuit reactance	(X _d "%)			
Note: If there are more than 2 generator	rs, attach an addit	ional sheet describing each.		
14. Interface Information				
Generator Synchronizer		Inverter for DC Generato	or	
Manufacturer		Manufacturer		
Rating		Rating		
Model Number		Model Number		
Automatic or		Line or		
Manual Synchronizer	S	elf Commutated Inverter		



15. Protective Equipment

Protective Device 1		Protective Device 2	
Range of Available Settings			
	Trip Time		
Manufacturer			
Trip Set Point Describe operation for disconnecting the generator or inverter in the event of a distribution system outage: Describe operation for disconnecting the generator or inverter in the event of a distribution system short circuit (three phase and		Trip Set Point Describe operation for disconnecting the generator or inverter in the event of a distribution system outage: Describe operation for disconnecting the generator or inverter in the event of a distribution system short circuit (three phase and single phase to	
Complete all applicable items. Add 16. Short Circuit Current C Distributed Generator Short	Contribution of the	Proposed Generating Facility	System Short Circuit
(filled out by appli		Assumption of Distribution S Current (filled ou	
Single Phase to Ground	amps	Single Phase to Ground	amps
Three-Phase Symmetrical	amps	Three-Phase Symmetrical	amps
Three-Phase Asymmetrical	amps	Three-Phase Asymmetrical	amps
17. Short Circuit Interrupt	ing Rating of Inte	rconnection Disconnection Devi	ce
	symmetrical)	amps (symi	
18. Does the Proposed Ger	nerating Facility s	tart with the aid of grid power?	
☐ Yes ☐ No If yes,	what is the inrush c	urrent amps (inrush cur	rent)
19. Will the Proposed Gene	erating Facility ha	ve a dedicated transformer?	
☐ Yes ☐ No If ye	es, please describe:	Primary Volts Secondary Volts	A
			<u> </u>



20. Metering Configuration and	d Connection				
☐ Series ☐ Parallel	□Direct				
21. Liability Insurance					
Carrier					
22. Other Comments, Specifications and Exceptions (attach additional sheets if needed)					
23. Applicant and Project Design / Engineering Signature					
To the best of my knowledge, all t correct.	he information provided in thi	s Application Form is complete and			
Applicant Signatur	re	Date (yyyy/mm/dd)			
Project Design / Engine	eering	Date (yyyy/mm/dd)			
24. 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 Signati	ure	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.