Transmission Customer Application For New or Modified Connection



Submit this form electronically to customer.service@cnpower.com or in hard copy by drop-off, mail or courier to the following address:

Canadian Niagara Power Inc. 1130 Bertie Street, Fort Erie, ON L2A 5Y2 Attn: Vice President of Operations

Subject: Customer Application for New or Modified Connection

All information submitted in this application form and as part of the resulting connection process may be used by Canadian Niagara Power Inc. (CNP), and the Independent Electricity System Operator (IESO), to fulfill its obligations in relation to the requested connection under the *Electricity Act, 1998*, the *Ontario Energy Board Act, 1998*, the *IESO Market Rules*, the Transmission System Code, its transmission license and Canadian Niagara Power Inc.'s OEB-approved *Connection Procedures*. The applicant consents to the sharing of all such information between Canadian Niagara Power Inc. and the IESO.

Applicants are required to apply to the IESO as part of the connection requirements. The IESO contact information is:

Independent Electricity System Operator 2635 Lakeshore Rd. West Mississauga, ON L5J 4R9 Attn: Connection Assessments

Connection.assessments@ieso.ca

New Connection: \square Modification to an Ex	kisting Connection Facility: \square
Project Name:	
Part 1 - General Information	
Organization Name:	
Organization Short Name: (Maximum 12 keystrokes)	
Mailing Address:	
City/Town: Province/State:	
Postal/Zip Code:	Country:
Fax No.:	
Email Address:	
Main Contact	
Name:	
Position/Title:	
Telephone No.:	Fax No.:
E-mail Address	

Part 2 – Required Documentation Attached By Customer Applicant

LO	LOAD CUSTOMERS			
	Requested in-service date.			
	Indicate whether new connection or existing connection requiring modification.			
	Project description.			
	Connection location/address.			
	Forecasted new load that will be guaranteed by the Customer (initial, intermediate and ultimate) including size and date. Identify seasonal/monthly variation in load (summer or winter peak). Provide the five most recent years of historical load pertaining to existing facilities as indentified by Canadian Niagara Power Inc., if connected less then five years the most recent year or years.			
	Identify nature of business (specify industry) and any specific requirements.			
	Provide the technical information identified in Appendix A of this application entitled "New or Modified Customer Facility Technical Information for Load Customers".			
	SCADA requirements for New or Modified Facility to be identified by Customer and Canadian Niagara Power Inc. during project review meetings and incorporated into CCRA as required.			
	Identify the name, address and contact information of the New or Modified Facility Meter Service Provider and Market Participant name.			
GEI	NERATORS			
	Requested in-service date.			
	Indicate whether new connection or existing connection requiring modification.			
	Project description.			
	Connection location/address, total generation including number of units, size of units and power factor.			
	Forecasted new seasonal/monthly operating schedule including output by generating unit.			
	Identify nature of business (specify industry) and any specific reliability requirements.			
	Provide the technical information identified in Appendix B of this application entitled "Transmission System Connection Application for Generator Customers".			
	SCADA requirements for New or Modified Facility to be identified by Customer and Canadian Niagara Power Inc. during project review meetings and incorporated into CCRA as required.			

Part 3 – Certification

	rmation contained in and submitted in support of applicant's knowledge, complete and accurate.				
·					
Name	Title				
Name	riue				
Signature	Date				
Part 4 – Permission					
The undersigned hereby authorizes Canadian Niagara Power Inc. to receive from the IESO, if required, copies of any connection assessments and/or facility registration or related documents associated with the request in this application for new, modified or replacement connection facilities.					
Name	Title				
Signature	Date				
Part 5 – For Canadian Niagara Power Inc.	Part 5 – For Canadian Niagara Power Inc. Use Only				
Received By:	Date Received:				
Date of Request(s) for Additional Information:					
Date Requested:	Date Received:				
Date Requested:	Date Received:				
Application Completion Date:					

APPENDIX A

"New or Modified Customer Facility Technical Information for Load Customers"

Canadian Niagara Power Inc. requires the following completed IESO connection assessment and facility registration documentation:

System Impact Assessment Application for Load Customers
Final System Impact Assessment Report for Load Customers
Feasibility Study Application for Load Customers
Final Feasibility Study Report O Attached O To be provided by:
ion, to the extent not included in the IESO-related documentation listed above, Canadian Niagara nc. requires the following information:
Single line diagram illustrating all protection schemes, 3 wire and/or DC elementary wiring drawings may be required.
Power transformer nameplate data. o Attached o To be provided by:
Relay settings & verification tests. O Attached O To be provided by:
High voltage equipment operating & protection philosophy that is impactive on the transmission system. O Attached O To be provided by:
Tripping Matrix as per required code. o Attached o To be provided by:

APPENDIX B

"Transmission System Connection Application for Generator Customers"

GENERATOR CONNECTION REVIEW FORM

Given below is typical	l information required from Generators for the	e initial meeting with Canadian Niagara Power Inc.
Date:		
(dd/mm/yy	уу)	
1. Project Name:		
2. Project Dates:	Proposed Start of Construction: Proposed In-Service:	(dd/mm/yyyy) (dd/mm/yyyy)
3. Project Size:		kW
4. Project Location	on:	
Contact: _ Mailing Ac Telephone Fax:	pper: /Person:ddress:	
Company/ Contact: _ Mailing Ac Telephone Fax:	r (if not the same as Project Develor Person:ddress:	
Company/ Contact: _ Mailing Ac Telephone Fax:	onsultant (Electrical): /Person: ddress:	
8. Project Type:		
☐ Wind Turbine	Hydraulic Turbine Steam Turbine	Gas Turbine
Diesel Engine	Solar Fuel Cell	Biomass

Co-generation / CHP (Combined Heat and Power)
Other, Please specify
9. Generator Voltage and Type:
A. Generator Voltage: Volts
B. Type: Rotating Generators
☐ Synchronous ☐ Induction
Other, please specify
C. Non-rotating DC Generation
DC Source – Photovoltaic Arrays DC Source – Fuel Cells DC Source – Batteries
Other, please specify
10. Proposed Step-Up Interface Transformer Connection (delta, wye – solid grounded, wye – impedance grounded etc.)
High Voltage*Low Voltage**
The connection of the windings should also be indicated in the Single Line Diagram (SLD). In this document: * 'High Voltage' refers to the connection voltage to Canadian Niagara Power Inc.'s transmission system ** 'Low Voltage' refers to the generation or any other intermediate voltage.
11. Location Map and Connection Voltage to CNP System
 Provide Site Location Map with suitable details of generation facility, line routing and proposed connections to Canadian Niagara Power facilities.
Drawing / Sketch No, Rev
12. Single Line Diagram (SLD)
 Provide SLD of Generator facility showing the interface point to Canadian Niagara Power Inc. system.
The SLD should include the required disconnecting device and show various equipment VIZ. generators, high and low voltage switchgear, transformers, motors, protective relays / device instrument transformers (CTs and VTs), metering, synchronizing, etc.
Provide as much information as possible on the SLD.
13. Operation, Generation and Load Information:
Mode of Operation:

24 hour or Base	e Load	Load Displac	ement
Other, please sp	pecify		
• A	nnual Capacity Factor	%	
• P	rospective number of annua	scheduled starts/s	tops, and timing thereof
	_		
• E	stimated maximum load of t	ne generator facility	,
			kW
	-		
• E	stimated maximum power ex	port form the facili	ty (to CNP system)
	_	kVA _	kW