

This application form is to be completed and submitted in order to initiate a distribution Detailed Level Study (DLS) by FortisAlberta. Please submit the application with all supporting information and documents to generation@fortisalberta.com.

Please note: The application form may be returned if any of the fields are incomplete.

COMPANY NAME (the "Applicant")		FortisAlberta Reference #	
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GENERATOR PARAMETERS (SYNCHRONOUS TYPE)	
Number of Poles:	
Steady State Reactance (Xd):	
Transient Reactance (X'd):	
Subtransient Reactance (X''d):	
Negative Sequence Reactance:	
Zero Sequence Reactance:	
Grounding Impedance:	
Inertia of all rotating mass:	
Damping Constant:	
GENERATOR PARAMETERS (INDUCTION TYPE)	
Efficiency (%):	
Rated Speed (RPM):	
ANSI Motor Group:	
Subtransient Impedance (R'',X''):	
Rotor Type (single circuit, double circuit, deep bar):	
Stator Impedance (Rs, Xs):	
Magnetizing Impedance (Rm, Xm):	
Rotor Impedance (Rr, Xr):	
For double circuit rotor type – Rotor 2 Impedance (Rr2, Xr2):	
Cage Factor (CFr, CFx):	
Inertia of all rotating mass:	
GENERATOR PARAMETERS (INVERTER TYPE)	
Total number of inverters:	
Negative Sequence Impedance:	
Grid-Side Inverter Current limit:	
Fault Contribution (% of rated current):	
Inverter Active Anti-Islanding Control Category:	

PRODUCER SUPPLIED TRANSFORMER	
Rated KVA (base):	
Transformer Impedance (c/w X/R ratio) % (estimates are acceptable):	
Transformer winding (High/Low) (V): (E.g. 25000/4160):	
Facility Transformer Utility-Side Winding (e.g. Wye, Wye-Grounded, Wye-Impedance-Grounded, or Delta):	
Facility Transformer Customer-Side Winding (e.g. Wye, Wye-Grounded, Wye-Impedance-Grounded, or Delta):	
Tertiary voltage winding (V) (if applicable) (nominal voltage):	
Tertiary voltage winding Connection: (delta or wye, grounded or ungrounded or N/A)	
Tertiary Winding Impedances:	
Grounding Transformer Type / Location: (E.g. Zig-zag, wye-grounded delta / Grid Side, DER side) (if installed)	
Neutral Grounding Resistance (Ohm): (if installed)	
Neutral Grounding Reactance(Ohm): (if installed)	
GENERAL GENERATOR INFORMATION	
Acceptable minimum power factor if unity is not possible (must be between 90% and unity, e.g. 97%)	
Wind Turbine Type (e.g. Type 1, 2, 3, 4, 5) (if applicable)	

TECHNICAL REQUIREMENTS – CHECKLIST	
<i>Checking the following confirms acknowledgement of the technical requirements to connect a DER facility to FortisAlberta's system.</i>	
<input type="checkbox"/>	Application / Design Complies with CSA C22.3 No. 9 (2020)
<input type="checkbox"/>	Authenticated SLD Provided (See, Annex A: CSA C22.3 No 9:20 for formatting and informational requirements)
<input type="checkbox"/>	DER facility meets the reactive power capabilities as per CSA C22.3 No. 9 (2020)
<input type="checkbox"/>	All Inverters Settings will use the IEEE 1547-2018 Category II profile. Settings signoff will be provided to FortisAlberta at least 2 months prior to commissioning.
<input type="checkbox"/>	Anti-Islanding Requirements will comply with FortisAlberta DER-02 Interconnection Requirements
<input type="checkbox"/>	Requirements for Voltage / Frequency / Overcurrent Protection Complies with CSA C22.3 No. 9 (2020)

By executing and returning a copy of this Detailed Level Study (DLS) application to FortisAlberta, Applicant hereby acknowledges and agrees that FortisAlberta may, from time to time and without notice to the Applicant, provide any and all electrical models and data which the Applicant submits to FortisAlberta, to other distributed generation (“DG”) applicants, or their subcontractors. Such electrical models and data may be provided to other DG applicants, or their subcontractors to ensure compliance with and compatibility of their proposed DG project in combination with Applicant’s project and FortisAlberta’s current infrastructure. FortisAlberta will undertake all commercially reasonable efforts to de-identify the Applicant’s electrical models and data.

I certify this technical information:

Power Producer (name / company)	Signature
Title	Date