

This form is to be completed and submitted in order to confirm project data at the 110 day threshold. Please submit this form as part of the required 110 day package.

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

CONTACT INFORMATION			
Company Name:		FortisAlberta Project #:	
Site Contact Name:		Site Contact Phone Number:	

PROJECT INFORMATION	
Confirmed In Service date:	
AESO Asset ID:	
AUC Connection Order Number:	
Breaker Failure protection confirmed?	No ☐

GENERATOR GENERAL INFORMATION	
Maximum generation:	
Operating power factor at the site:	
Type (Synchronous, Induction, Inverter):	Synchronous ☐
Prime Mover Type:	Natural Gas ☐
Number of units:	
Nominal Rating (kW, kVA, volts):	
Single or Three Phase:	Three Phase ☐
Generator Connection Configuration (Delta, Wye):	Delta ☐
Generator Grounding:	

GENERATOR PARAMETERS (SYNCHRONOUS TYPE)	
Generator Name:	
Manufacturer:	
Rated Power (kVA):	
Rated Voltage (kVLL):	
Rated Active Power (kW):	
Equipment Rated Power Factor (+/- %):	
Control Mode:	
Generator Control Power Factor (+/- %):	
Supplemental Grounding:	
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:	

GENERATOR PARAMETERS (INDUCTION TYPE)	
Generator Name:	
Manufacturer:	
Rated Power (kVA):	
Rated Voltage (kVLL):	
Rated Active Power (kW):	
Efficiency (%):	
Equipment Rated Power Factor (+/- %):	
Control Mode:	
Generator Control Power Factor (+/- %):	
Supplemental Grounding:	
Damping Constant:	
Rated Speed (RPM):	
ANSI Motor Group:	
Subtransient Impedance (R'' , X''):	
Rotor Type (single circuit, double circuit, deep bar):	
Stator Impedance (R_s , X_s):	
Magnetizing Impedance (R_m , X_m):	
Rotor Impedance (R_r , X_r):	
For double circuit rotor type – Rotor 2 Impedance (R_{r2} , X_{r2}):	
Cage Factor (CF_r , CF_x):	
Inertia of all rotating mass:	

GENERATOR PARAMETERS (INVERTER TYPE)	
Manufacturer:	
Model:	
Standard:	
Total number of inverters:	
Efficiency (%):	
Internal Losses (W):	
AC Nominal Rating (kVA):	
AC Active Power Rating (kW):	
AC Reactive Power Rating (kVAR):	
AC Min. Power Factor (+/- %):	
AC Coupling Resistance (Ohms):	
AC Coupling Inductance (H):	
DC Rated DC Voltage (Vdc):	
DC Capacitor (Cdc):	
Negative Sequence Impedance:	
Grid-Side Inverter Current limit:	
Fault Contribution (% of rated current):	
Supplemental Grounding:	
Control Mode:	
Generator Control Power Factor:	
Inverter Anti-Islanding Mechanism:	
Inverter Active Anti-Islanding Control Category:	

GENERATOR PARAMETERS (PHOTOVOLTAIC PANEL)	
PV Name:	
Manufacturer:	
Current at Maximum Power Point (Impp):	
Voltage at Maximum Power Point (Vmpp):	
Short-Circuit Current in STC (Isc):	
Open-Circuit Voltage in STC (Voc):	
Short-Circuit Current Temperature Coefficient (α_{sc}):	
Open-Circuit Voltage Temperature Coefficient (β_{oc}):	
Normal Operating Cell Temperature (NOCT):	
Reference Ambient Temperature (Ta ref):	
STC Temperature (Tstc):	
Strings in Series (Ns):	
Strings in Parallel (Np):	
STC Irradiance (Gstc):	
DC System Rating (kW):	
AC System Rating (kW):	
DC/AC Ratio:	
DC Voltage (V):	
Ambient Temperature (°C):	

GENERATOR PARAMETERS (BESS)	
BESS Name:	
Manufacturer:	
Rated Storage Energy (kWh):	
Maximum Charging Power (kW):	
Maximum Discharging Power (kW):	
Charge Efficiency-DC Side (%):	
Discharge Efficiency-DC Side (%):	
Idling Active Losses (W):	
Idling Reactive Losses (VAR):	

GROUNDING TRANSFORMER	
Continuous Neutral Current:	
Rated Capacity:	
Rated Voltage:	
Z0:	
X0/R0:	
Configuration:	
Location:	

PRODUCER SUPPLIED TRANSFORMER	
Rated KVA (base):	
Transformer Impedance (c/w X/R ratio) %:	
Transformer winding (High/Low) (V): (E.g. 25000/4160):	
Transformer winding connection: (E.g. wye/wye, delta/wye-grounded, etc.):	
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)	

TECHNICAL REQUIREMENTS – CHECKLIST			
<i>Checking the following confirms acknowledgement of the technical requirements to connect a DER facility to FortisAlberta's system.</i>			
☐	Application / Design Complies with CSA C22.3 No. 9 (2020)	☐	Application / Design Complies with FortisAlberta DER-02 Interconnection Requirements
☐	SLD Provided (See, Annex A: CSA C22.3 No 9:20 for formatting and informational requirements)	☐	DER facility meets power quality compliance as per CSA C22.3 No. 9 (2020)
☐	DER facility meets the reactive power capabilities as per CSA C22.3 No. 9 (2020)	☐	DER facility is effectively grounded and has been studied as part of the design. (E.g. Delta Primary Configurations Require a Grounding Transformer)
☐	All Inverters Settings will use the IEEE 1547-2018 Category II / CSA C22.3 No 9:20 Supplemental Grade profile; Settings will be provided to FortisAlberta in the 110-Day Construction Package for approval.	☐	Commissioning / Maintenance Acknowledgement per DER-02 and CSA C22.3 No. 9 (2020)
☐	Anti-Islanding Requirements will comply with FortisAlberta DER-02 Interconnection Requirements	☐	Breaker Failure Protection will comply with the FortisAlberta DER-02 Interconnection Requirements
☐	Requirements for Voltage / Frequency / Overcurrent Protection Complies with CSA C22.3 No. 9 (2020)		

Power Producer (name / company)

Signature

Title

Date