Interconnection request



Please provide information in all fields in each section, if applicable. Do not leave any fields blank. If any particular field is not applicable to your project please write N/A (not applicable) Interconnection customer information Project name Company name Contact name Phone Fax Email Address Unit/suite Town/city Province/state Country Postal/zip code Interconnection service information The interconnection request is for (check one) A proposed new facility

An increase in capacity of an existing facility A material modification to an existing facility The interconnection request type is (check all that apply) Generation Transmission End user (load) **General facility information** Address or location or the proposed new facility site or, the name and specific location of the existing facility Maximum rating of the proposed new facility or, amount of capacity increase of an existing facility in MVA Summer (July - Sept.): Winter (Oct. - April): Spring (May - June): General description of the equipment configuration for the facility Proposed in-service date (YYYY/MM/DD) Approximate location of the proposed point of interconnection Additional submission information Check the boxes below to confirm each applicable document is being provided, along with this form: Transmission End-user (load) This interconnection request must be submitted via email or mail as follows: Attention: Email: electricity.customerservice@fortisbc.com, FortisBC - Electricity Key Account Manager - Shared Services, cc: dane.gretchen@fortisbc.com **Energy Solutions** 300 - 750 Vaughan Ave Kelowna, BC, V1Y 7E4 The undersigned Interconnection Customer submits this request to interconnect its facility with the FortisBC Electrical System pursuant to the FortisBC Electrical Tariff and FortisBC Facility Connection Requirements. This interconnection request is submitted by: Name (please print) Signature Date (YYYY/MM/DD) FortisBC USE ONLY Received by Date and time received Signature

Transmission facility technical data



Please provide information in all blue shaded fields in each section, if applicable. Do not leave any fields blank. If any particular field is not applicable to your project please write N/A (not applicable). Use additional forms if additional facility information is required.

Overhead line or underground o	cable information			
Nominal voltage (kV)	Length (km)	Conductor type	Conductor size	
Conductor code name	Overhead ground wire type	Overhead ground wire size	Overhead ground wire code name	
Pos-seq resistance R ₁ (Ohms/km)	Pos-seq reactance X ₁ (Ohms/km)	Zero-seq resistance R ₀ (Ohms/km)	Zero-seq reactance X ₀ (Ohms/km	
Summer continuous rating (MVA)	Summer emergency rating	Winter continuous rating (MVA)	Winter emergency rating (MVA)	
Provide a description of the protection	systems			
·	•			
Provide a description of the communic	cations systems			
Tovide a description of the communic	ations systems			
	ch mandatory document is being provide	-		
Route map Single line diagnation device	ram including all electrical and all protection	ction equipment		
Connection location	information (if applicable)		Rated voltage (kV)	
			raisa veilage (iiv)	
Туре	Rating (MVAR)	Configuration	Switching device type	
Provide a description of the protection	svstems			
	,			
Provide a description of the criteria for	automatic switching			
Fransformer information (if app	licable)			
Primary voltage rating (kV)	Secondary voltage rating (kV)	Tertiary voltage rating (kV)	Primary connection configuration	
Cocondant connection configuration	Tortion, connection configuration	Desitive assumes impedance (9/)	Zara aaguanaa imnadanaa (0/)	
Secondary connection configuration	Tertiary connection configuration	Positive sequence impedance (%)	Zero sequence impedance (%)	
Summer continuous rating (MVA)	Summer emergency rating	Winter continuous rating (MVA) Winter emergency rating (NVA)		
Tap changer location (HV or LV)	Tap changer type	Number of taps Tap step voltage (%)		
Provide a description of the protection	svstems			

Additional information

Provide a description of any additional applicable information, if required

Generation facility technical data



Please provide information in all blue shaded fields in each section. Do not leave any fields blank. If any particular field is not applicable to your project please write N/A (not applicable). Use additional forms if additional facility information is required.

Generator information	,	'				
Maximum generator rating (MVA)	Maximum turbine rating (MW)	Rated vo	Rated voltage (kV) Rated power factor (PU)			
Rated amperes (A)	Rated speed (RPM)	Rated fre	Rated frequency (Hz) Number of phases		ber of phases	
Short circuit ratio	Type of generation (synchronous, induct	ion, etc.)	on, etc.) Amortisseur windings connected Synchronous condenser			
Connection (delta/wye)	Type of grounding	Groundir	g resistance	Turbine a	and generator inertia constant (H)	
Turbine and generator moment of inerti	a (WR²)	Energy source (water, steam, wind, etc.)				
Provide a description of the protection s	systems					
Provide a description of the communica	utions systems					
·	•					
	mandatory document is being provided,	•				
	the customer's facility and the proposed	point of in	erconnection.			
	e all electrical and protection equipment. ver system stabilizer, if applicable) model	block dia	grams and data sheets prov	ided in a \	NFCC approved model and in	
PSSE format.				idod iii d	TVEGO approvou mouor ana m	
· "	values on machine base kV and b		()			
Base MVA		Base kV				
Unsaturated values		Saturated values				
D-Axis Synchronous Reactance (Xdi)	D-Axis Transient Reactance (X'di)	D-Axis S	ynchronous Reactance (Xd	/) D-/	Axis Transient Reactance (X'dv)	
D-Axis Sub-Transient Reactance (X"di)	Q-Axis Synchronous Reactance (Xqi)	D-Axis S	ub-Transient Reactance (X"	dv) Q-/	Axis Transient Reactance (X'qv)	
Q-Axis Transient Reactance (X'qi)	Q-Axis Sub-Transient Reactance (X"qi)	Q-Axis S	ynchronous Reactance (Xq	v) Ne	gative Sequence Resistance (R ₂)	
Negative Sequence Reactance (X _{2i})	Zero Sequence Reactance (X _{0i})	Q-Axis S	ub-Transient Reactance (X'	'qv) Zei	ro Sequence Resistance (R ₀)	
Leakage Reactance (X _{lm})		Armature	Resistance Per Phase (Ra) Fie	ld Winding Resistance (Rf)	
Time constant information (seco	nds)					
D-axis values		Q-axis v				
Open Circuit Transient (T'do)	Open Circuit Sub-Transient (T"do)	Open Cir	cuit Transient (T'qo)	Opei	n Circuit Sub-Transient (T"qo)	
Short Circuit Transient (T'd)	Short Circuit Sub-Transient (T"d)	Short Cir	cuit Transient (T'q)	Shor	t Circuit Sub-Transient (T"q)	
Transformer information (if appli	cable)					
Primary voltage rating (kV)	Secondary voltage rating (kV)	Tertiary	oltage rating (kV)	Prim	ary connection configuration	
Secondary connection configuration	Tertiary connection configuration	Positive	sequence impedance (%)	Zero	sequence impedance (%)	
Maximum continuous rating (MVA)	Maximum continuous rating (MVA)	Tap char	nger location (HV or LV)	Тар	changer type	
Number of taps	Tap step voltage	Current t	ap setting			
Additional information	applicable information if required					

End-user (load) facility technical data

(Transmission service: for load connection requirements greater than 63kV or distribution service: for loads >5 MVA to be connected at 25kV and under)



	e additional f	orms ii addilionai ia	acility information	is requirea.	. If any particular field is		
		tal connected load			connected load (kVA)	Existing peak demand (kW)	
Additional expected peak demand (kW) Load factor		Load factor (%)	or (%) Expected pow		r factor (%)	Electric heating load (kW)	
ighting load (kW)	Motor load	(kW)	Other load (k)	(kW) Hours of operation p		r day Days of operation per wee	
Provide a description of the lo	oads that are	included in the 'Oth	ner load' total abo	ve			
Provide a description of the t	ype of busine	ss or operation					
Check the boxes below to co	nfirm each m	andatory document	is being provided	d, along with this fo	rm:		
Site plan(s) showing the		-		=			
Single line diagram(s) cle		-					
Motor information (if ap				, ,			
Provide the following informa	tion for all mo	otors 50Hp and larg	er (attach a list if	required).			
pe Nameplate Nameplate Starting (VFD, soft, direct) (VFD, direct, etc.)		Comments	nents				
, ,	(1 /			, , ,	. ,		
Generation information	`						
The customer facility has o				heck all that apply	y)	Generator size (MW)	
Emergency generation on							
Onsite generation parallel	ed with the F	ortisBC system, wit	h no intent to exp	ort.			
Onsite generation parallel	ed with the F	ortisBC system, wit	h intent to export	•			
Reactive compensation	device info	rmation (if appl	icable)				
Connection location		Туре			Configurat	Configuration	
Rated voltage (kV)		Rating	(MVAR)		Switching	device type	
Provide a description of the p	rotection sys	tems					
Provide a description of the c	riteria for aut	omatic switching					
Provide a description of the c		· ·					
Transformer information	ո (if applica	ble)					
Transformer information	ո (if applica	· ·	ting (kV)	Tertiary voltage	rating (kV)	Primary connection configuration	
Transformer information Primary voltage rating (kV)	n (if applica	ble)			rating (kV)	Primary connection configuration Zero sequence impedance (%)	
Transformer information Primary voltage rating (kV) Secondary connection config	n (if applica Se guration Te	ble) econdary voltage ra ertiary connection c	onfiguration	Positive sequen	ce impedance (%)	Zero sequence impedance (%)	
Transformer information Primary voltage rating (kV) Secondary connection config	n (if applica Se guration Te	ble) econdary voltage ra	onfiguration	Positive sequen			
Provide a description of the control	In (if applica Se Juration Te	ble) econdary voltage ra ertiary connection c	onfiguration	Positive sequen	us rating (MVA)	Zero sequence impedance (%)	
Transformer information Primary voltage rating (kV) Secondary connection config Summer continuous rating (M	ruration Te	ble) econdary voltage ra ertiary connection c ummer emergency up changer type	onfiguration	Positive sequen	us rating (MVA)	Zero sequence impedance (%) Winter emergency rating (MVA)	

Provide a description of any additional applicable information, if required