Initial Application Form for Connection Of Distributed Generation (>10kW)

Please complete the following information and forward to Wellington Electricity

Contact Details

Primary Contact (who we should contact for additional information)



Contact person	* wennigton electricity
Company name	
Contact numbers	Daytime: Mobile: Fax:
Email address	
Postal address	

Secondary Contact

Contact person	
Company name	
Contact numbers	Daytime: Mobile:Fax:
Email address	
Postal address	

Site Details		
Electricity Retailer		
Customer ICP number		
Site address of proposed generator		

Proposed Installation Dates

Proposed key dates for connection to Wellington Electricity's network

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System Specifications (for all generation >10kW)	
Generating Plant Data	
Terminal Volts (kV)	
Rated kVA	
Rated kV	
Maximum active power sent out (kW max)	
Reactive power requirements (kVAr), if any	
Power Factor at maximum kW	
Vector Group	
Type of generating plant (e.g. synchronous, asynchronous)	
Type of prime mover	
Anticipated operating regime of generation e.g. continuous, intermittent, peak lopping	
Fault level contribution (for large machines this may be covered in the detail specifications below)	
Method of voltage control	
Generator transformer details, as applicable	Attached
Fuel Type	
Requirements for top-up supplies and/or standby supplies	
Interface Arrangements	
The means of synchronisation between the Distribution network and the Generator	
Details of arrangements for connecting with earth that forms part of the Generator's system directly connected to the distribution system	Attached 🗌
The means of connection and disconnection which are to be employed	Attached 🗌
Ability of plant to backfeed the external system	
Protection equipment, protection schemes and protection setting	Attached 🗌
Precautions to be taken to ensure the continuance of safe conditions should any earthed neutral point of the Generator's system operated at HV become disconnected from earth	Attached 🗌

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Detailed Specifications For distributed generators connected at voltages equal to or greater than 6.6kV or of capacity 1MW or greater, please also complete the following information:

Technical Data			
Generating plant information (impedances p.u. on rating)		Attached	
Type of prime mover			
Rated MVA			
Rated MW			
Generator MW/MVAr capabi	lity chart (at terminals)		
Type of excitation system			
Inertia constant MW secs/M	VA (whole machine)		
Stator resistance			
	- sub transient		
Direct axis reactances	- transient		
	- synchronous		
	- sub transient		
Quadrature axis reactances	- transient		
	- synchronous		
	- Direct axis transient		
Time constants	- Direct axis sub-transient		
	- Quadrature axis transient		
	- Quadrature axis sub- transient		
Open or short	- Sub-transient (stating either circuit time constant)		
	- Resistance		
Zero Sequence	- Reactance		
Negative Sequence	- Resistance		
negative Sequence	- Reactance		

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	- Resistance (RI, Rø)	
. . . <i>.</i>	- Reactance (XI, Xø)	
	- MVA rating	
	- Tap arrangement	
	- Vector Group	
	- Earthing	
Automatic Voltage Regulato	r	
A block Diagram for the mod data on the forward and feed voltage control limits	del of the AVR system including the dback gains, time constants and	Attached 🗌
Speed governor and prime mover data		
A block diagram for the model of the generating plant governor detailing the governor flyball, if applicable, and system control and turbine time constants, together with the turbine rating and maximum power		Attached 🗌
The means of synchronisation between the Distribution Network and the generator		
Details of arrangements for connecting with earth that forms part of the Generator's system directly connected to the distribution system		Attached 🗌
The means of connection and disconnection which are to be employed		
Ability of plant to backfeed external system		
Protection equipment and protection setting		Attached 🗌
Precautions to be taken to ensure the continuance of safe conditions should any earthed neutral point of the Generator's system operated at HV become disconnected from earth		Attached

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Capacity and standby requirements	
Registered capacity and minimum generation of each generating unit and power station in MW	
Generating Unit and power station auxiliary demand (active power and re-active power) in MW and MVAr, at registered capacity conditions.	
For Users with own generation, this should include top-up requirements.	
Generating unit and power station auxiliary demand (active power and reactive power) in MW and MVAr, under minimum generating conditions.	
For Users with own generation, this should include top-up requirements.	

Further information required by Transpower

Generators with large machines may be subject to the Transpower Connection Code, part C of the Electricity Governance Rules and central dispatch. Where this applies any information supplied to Wellington Electricity, and any further information requested by Transpower will be forwarded to Transpower. It will be the responsibility of the Generator to provide the information required to Wellington Electricity. Wellington Electricity will pass on the information to Transpower.

There may also be information required under the terms of any Transpower contract in respect of the transfer of energy from the Generator to the Generator's customer.

Applicant Signature		
Name		
Signature		
Date		

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