

Please complete the following information and forward to Vector

Contact Details				
Primary Contact (who we should contact for additional information)				
Contact person				
Company name				
Contact numbers	Daytime: Cell phone:			
	Fax:			
Email address				
Postal address				
Secondary Contact				
Contact person				
Company name				
Contact numbers	Daytime: Cell phone:			
	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 Vector's electricity network				



System Specifications (for all generation >10kW)			
Generating Plant Data			
Terminal volts (kV)			
Rated kVA			
Rated kW			
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 detailed 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 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		



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 capability chart (at terminals)				
Type of excitation system				
Inertia constant MW secs/MVA (whole machine)				
Stator resistance				
Direct axis reactances	- Sub-Transient			
	- Transient			
	- Synchronous			
Quadrature axis reactances	- Sub-Transient			
	- Synchronous			
Time constants	- Direct axis Transient			
	- Direct axis Sub-Transient			
	- Quadrature Axis Transient			
	- Quadrature Axis Sub- Transient			
Open or short	- Sub-Transient (stating either circuit time constant)			
Zero sequence	- Resistance			
	- Reactance			
Negative sequence	- Resistance			
	- Reactance			



Generator transformer	- Resistance (RI, Rø)	
	- Reactance (XI, Xø)	
	- MVA Rating	
	- Tap arrangement	
	- Vector group	
	- Earthing	
Automatic voltage regulator		
A block diagram for the model of the AVR system including the data on the forward and feedback gains, time constants and voltage control limits		Attached
Speed governor and prime mover data		Attached
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 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



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 reactive 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 generation conditions.				
For Users with own generation, this should include top-up and standby 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 Vector, 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 Vector. Vector 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.				
Supporting information attached for revi	ew			
Please list any attached reports/studies that require Vector's r	eview (as outlined during the initial application phase).			
Applicant Signature				
Name				

Signature

Date