

Total nameplate output capacity of all proposed and/or existing inverters at this site:

kW _____ Amps _____ AC (inverter output)

Exported over: One Two Three phase/s

Made up of:

Nº of inverters _____ @ kW _____ Amps _____ each

Make _____ Model _____

Nº of inverters _____ @ kW _____ Amps _____ each

Make _____ Model _____

Nº of inverters _____ @ kW _____ Amps _____ each

Make _____ Model _____

Is the inverter included on NTL's list of approved inverters: Yes No

Does the inverter conform to the protection settings specified in NTL's connection standards: Yes No

Type: Solar PV Gas turbine Wind turbine
Micro hydro Fuel cell Other (specify) _____

Details of any battery storage:

Name of electrical contractor installing inverter: _____

Distributed generation system will comply with:

AS 4777 series (where appropriate): Yes No
NTL's Distribution Code Yes No
NTL's Conditions for Connection of Distributed Generation Yes No
AS/NZ 5033 Yes No

When submitting this application please attach:

- *The technical specifications of your equipment to show that your proposed distributed generation would automatically disconnect from our network during a power outage (it is important that distributed generation systems isolate from the network to avoid injury to line workers).*
- *A copy of the AS 4777.2 Declaration of Conformity certificate for the inverter if the inverter is not included on the NTL's list of approved inverters.*
- *The application fee - \$115 GST Inc. This fee must be paid before the application will be processed.*

If you do not complete all sections of this form and supply all of the attachments and fee above, your application may be delayed.

I/we, the applicant (being the power account holder) apply to connect a distributed generator to Network Tasman Limited's electricity network and confirm that the above information is correct.

I/we, the applicant (being the power account holder) agree that the Electricity Participation Code 2010 Part 6, schedule 6.2 Regulated Terms of Distributed Generation govern the contractual basis for connection of this plant to Network Tasman's distribution system, now and into the future, unless both parties agree otherwise.

Name: _____

Signature: _____ **Date:** _____

Network Tasman’s Approval

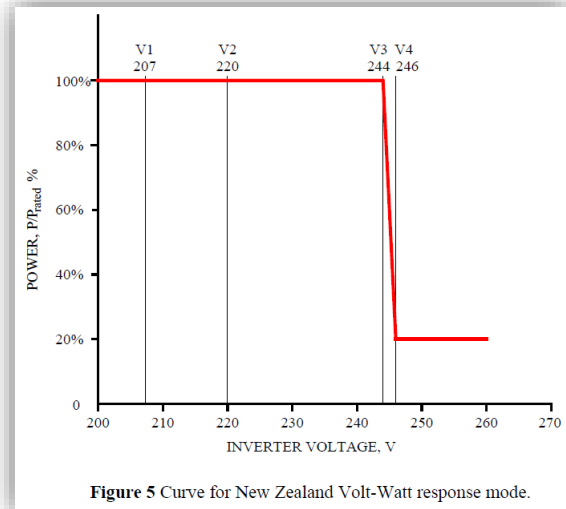
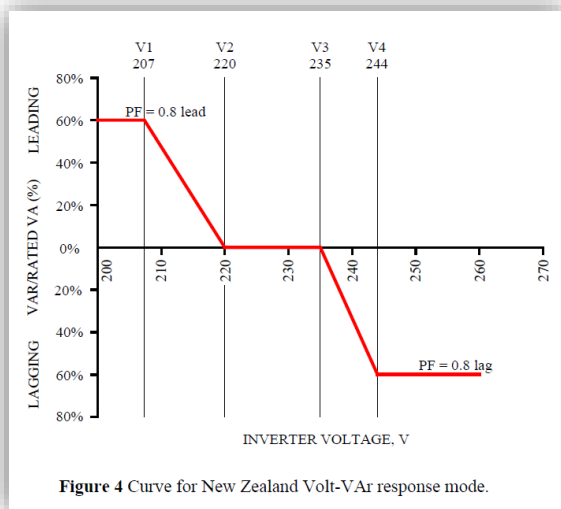
Network Tasman Limited agrees to the connection of the distributed generator described above to its electricity network. This approval however remains conditional on the fitting of appropriate import/export metering and final electrical inspection before the generation plant is connected to the distribution network.

Name: _____

Signature: _____ Date: _____

Conditions: 1. The overvoltage shutdown limit in all inverters is to be set to 246V with 2 minute time delay to operate.

As an alternative to the above overvoltage shutdown condition for inverters that are 2015 AS4777.2 compliant, the Volt-VAr and Volt-W responses may be enabled with the Green Grid operating values set (see below). With these modes enabled, the overvoltage shutdown limit can be set to 248V for a ten minute average voltage.



Reference	AS/NZS 4777.2	GREEN Grid NAG		Range
	NZ Default Values	NZ Default Values		
		Volt-VAr Response	Volt-Watt Response	
V ₁	207	207	207	Not Applicable
V ₂	220	220	220	216 to 230
V ₃	244	235	244	235 to 255
V ₄	255	244	246	244 to 265 240 to 265

Parameter	Limit	Minimum trip delay time	Maximum disconnection (trip) time
V _{nom-max} (10 minute average)	248 V		
Overvoltage 1*	260 V	1 second	2 seconds
Overvoltage 2*	265 V	-	0.2 seconds
Undervoltage*	180 V	1 second	2 seconds
Under-frequency* *	45 Hz	1 second	2 seconds
Over-frequency*	52 Hz	-	0.2 seconds
Minimum reconnection time	60 Seconds		
Volt response modes: Volt-VAr, Q(V) and Volt-Watt, P(V)	Applicability determined according to GREEN Grid traffic light system, Figure 3.		
	GREEN Grid designed Volt-response curves shown in Figure 4 and Figure 5.		

2. _____

3. . _____