

## Application to Connect Form Large Solar PV up to 200kW

The contact details for our Customer Solutions Managers are provided in Section 22 of our NICC 270  
– *Connection of large embedded generation*

Information Required	Description	Information, Notes & Feedback (attach information separately as required)	
<b>Site Details</b>	Customer NMI		
	Meter Number (if available)		
	Site Address		
	Site Load: <ul style="list-style-type: none"> <li>• Maximum (kVA)</li> <li>• Minimum (kVA)</li> </ul> Auxiliary supply arrangement if required:		
<b>End User Details</b>	End User (Customer) <u>Name</u>		
	End User (Customer) <u>ABN</u>		
	End User (Customer) <u>Phone Number</u>		
	End User (Customer) <u>Postal Address</u> , if different to site address		
	End User (Customer) <u>email address</u>		
	This needs to be the person who will have the connection with SA Power Networks.		
<b>Inverter Details (provide more info if more than 1)</b>		Solar PV System	Energy Storage
	Total number of inverters		
	Total inverter capacity (kW)		
	Inverter manufacturer		
	Inverter size and model		
	Panel size (W)		
	The make and model should exactly match the listing in the Clean Energy Council Approved Inverters listing		
<b>Energy Storage (battery)</b>	Size in kWh		
	Rate of charge & discharge (kW/h)		
	Make and model		
	Operating Philosophy e.g. export/non-export?		

<b>Installer Details</b>	Installer Business Name	
	Installer CEC Accreditation or REC Licence Number	
	Installer Phone Number	
	Installer Email	
<b>Connection Arrangement</b>	Connection arrangement of the installation, including a <u>detailed single line diagram showing all required protection devices</u>  As a minimum a single line diagram must be provided which shows additional anti-islanding protection and phase failure relays if applicable.	
	Single Line Diagram showing <u>connection arrangement of the inverters</u>	
	Site Plans - detailed site plans  The site plan should show the location of the PV arrays and PV board(s) in relation to the MSB and SA Power Networks connection assets	
	<u>Consumer mains size / type / number of cables</u>  Cable size and type, i.e. 240mm <sup>2</sup> Cu and length from service point to main switchboard to be provided	
	<u>Sub mains size / type / number of cables</u>  Cable size and type, i.e. 120mm <sup>2</sup> Cu and length from main switchboard to PV inverters, or groups of inverters to be provided.	
	<b>Protection Details</b>	Product specification/details on the back up anti-islanding protection relay.  As a minimum a product data sheet for the anti-islanding relay should be provided.
Proposed protection settings, value and delay, for the inverters (o/u freq, o/u voltage)		Refer Table 2A on next page
Proposed protection settings, value and delay, for the back up anti-islanding protection relay (o/u freq, o/u voltage, ROCOF, Vector Shift)		Refer Table 2A on next page
<b>Program Dates</b>	Construction Start & Completion date	
	Forecast Generating System connection date	

Device	Parameter	Setting	Delay (sec)
<b>Inverter Protection</b>	Over-voltage (V)		
	Under-voltage (V)		
	Over-frequency (f)		
	Under-frequency (f)		
	Active anti-islanding		
<b>Back Up Anti-Islanding Protection<sup>1</sup></b>	Over-voltage 1 (V)		
	Over-voltage 2 (V)		
	Under-voltage 1 (V)		
	Under-voltage 2 (V)		
	Over-frequency 1(f)		
	Over-frequency 2 (f)		
	Under-frequency 1 (f)		
	Under-frequency 2 (f)		
	Vector Shift (°)		
	Rate of Change of Frequency (Hz/s)		
	Unbalance/asymmetry (if applicable)		

Notes:

1. Back up anti islanding protection settings are not required for SA Power Networks to undertake the feasibility assessment however these settings must be submitted to SA Power Networks no later than 1 month prior to your proposed Generating System commissioning date.