

SUGGESTED MAINTENANCE SCHEDULE				
Sub-system or component	Maintenance Action 1)	Frequency 2)	Remarks	Check
General Observations	Check that the inverter is working, and without fault lights The inverter will record the daily kWh production; this should on average correspond with the daily values for the same period in the CEC yield table supplied.	Ongoing		
Site	Verify: (a) Cleanliness (accumulation of debris around and/or under array). (b) No shading of array.	Ongoing, Max Quarterly	Clean site as requested.	
	Verify cleanliness (accumulation of dust or fungus on array).		Trim trees, if required.	
PV Modules	Check for visual defects including; (a) fractures (b) browning (c) moisture penetration (d) frame corrosion	1 year	Clean if necessary	
	Inspect junction boxes for; (a) tightness of connections (b) water accumulation/build up (c) integrity of lid seals (d) integrity of cable entrances, glands and or conduit sealing (e) integrity of clamping devices Verify bypass diodes		Modules with visual defects should be further inspected for performance and safety to determine the need for replacement.	
Wiring installations	Verify mechanical integrity of conduits.	5 years	Any damaged conduits should be replaced	
	Verify insulation integrity of cables installed without conduit.		Any damaged cable should be replaced	
	Check junction boxes for; (a) tightness of connection (b) high resistance (hot) connections (c) water accumulation/build up (d) integrity of lid seals (e) integrity of cable entrance, glands and/or conduits seals. (f) Integrity of clamping devices. Verify; (i) blocking diodes (ii) surge arresters for degradation	1 year		
Check earthing connections for; (a) tightness of connections (b) corrosion (c) measure earth continuity	Replace or repair earthing system			
Electrical Characteristics	Measure open circuit voltage Voc		According to AS 5033 clause 8.2	
	Measure short circuit current Isc			
	Measure "power curve" and compare to STC values.			
Protective Devices	Verify integrity of fuses.			
	Verify and measure operation of CB's and RCD's.			
	Verify operation of earth fault protection system.			
Mounting System	Verify operation of solar array isolation devices.			
	Verify tightness and integrity of bolts and other fastening devices			Replace or repair as necessary
	Inspect for corrosion and reseal roof penetrations if required			

- 1) This list of items is not exhaustive but are examples only.
- 2) Values for frequency are examples. Frequencies may increase due to site or environmental conditions; corrossions checks should be performed during regular cleaning in locations close to salt water.
- 3) Your System will have high AC and DC voltages. All electrical testing must be performed by a licensed and CEC Accredited Electrician.