

Appendix 3 – Inspection Form

Wind Generator Electrical Installation Installation Certificate

INSTALLATION CERTIFICATE (See Appendix 6 of BS7671: 1992)

DETAILS OF THE CLIENT	
Client	
Address	

DETAILS OF THE INSTALLATION	
Address of Installation	As Above
Extent of the installation covered by this certificate	

PARTICULARS OF THE ELECTRICAL CONTRACTOR	
Trading Title	Solar Enerav Alliance
Address	8 Battery Green Road, lowestoft, Suffolk, NR32 1DE

DESIGN, CONSTRUCTION, INSPECTION AND TESTING*	
<p>I, being the person responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, construction, inspection and testing hereby CERTIFY that the said work for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671, amended to (date) expect for the departures, if any, details as follows:</p>	
<p>* This box/ form can only be used where the design, construction, inspection and testing have been the responsibility of one person</p>	
<p>Details of departures from BS 7671, as amended (Regulations 120-02, 120-05)</p>	
<p>The extent of liability of the signatory is limited to the work described above as the subject of this certificate. For the DESIGN, the CONSTRUCTION and the INSPECTION AND TESTING of the installation.</p>	
Signature	Date
Name (CAPITALS)	C. Millvard

PARTICULARS OF THE INSTALLATION					
Supply conductor material		Supply conductor csa	mm ²	Maximum demand (load)	A
Main Switch					
Type BS(EN)		Voltage rating	V	Current rating I _n	A
RCD operating current I _{Δn}	mA	RCD operating time (at I _{Δn})	ms	* (applicable only where an RCD is used as a main switch)	

SYSTEM TYPE, EARTHING AND BONDING ARRANGEMENTS				Enter details and tick boxes as appropriate			
System Type(s)	Means of Earthing	Details of Installation Earth Electrode (where applicable)					
TT	Installation earth electrode	Type (eg rod(s), tape etc)		Location			
TN-C-S	Supplier's facility	Electrode resistance, R _A	Ω	Method of measurement			
TN-S	Z _e (by enquiry)	Ω	Measured Z _e	Ω			
Main protective conductors							
Earthing conductor	Conductor material		Conductor csa	mm ²	Continuity check		(✓)
Main equipotential bonding conductor(s)	Conductor material		Conductor csa	mm ²	Continuity check		
Bonding of extraneous-conductive-parts (✓)	Water service		Gas service		Oil service	Structural steel	Other incoming service(s)

NEXT INSPECTION	I RECOMMEND that this installation is further inspected and tested after an interval of not more than (enter interval in words)	Ten Years

COMMENTS ON EXISTING INSTALLATION		Note: Enter NONE where appropriate, the page number(s) of additional page(s) of comments on the existing installation

Wind Generator Electrical Installation Schedule of Inspections

SCHEDULE OF ITEMS INSPECTED - PV SYSTEM & DC WIRING (See Section 712 of BS 7671: 1992)	
<p>General</p> <ul style="list-style-type: none"> <input type="checkbox"/> Equipment compliant with standards, correctly selected & not damaged <input type="checkbox"/> Equipment accessible for operation, inspection & maintenance <input type="checkbox"/> Equipment and accessories correctly connected <input type="checkbox"/> Presence and correct location of appropriate devices for isolation and switching <input type="checkbox"/> Choice and setting of protective and monitoring devices (for protection against direct contact and/or protection against overcurrent) <input type="checkbox"/> Connection of single pole devices for protection and switching in phase conductors only <input type="checkbox"/> Particular protective measures for special location <input type="checkbox"/> Equipment and protective measures appropriate to external influences <input type="checkbox"/> System installed to prevent mutual detrimental influence <input type="checkbox"/> Conductors connected and identified <input type="checkbox"/> Conductors selected for current carrying capacity and voltage drop <input type="checkbox"/> Conductors routed in safe zone or protected against mechanical damage <input type="checkbox"/> Presence of fire barriers, seals and protection against thermal effects <input type="checkbox"/> Erection methods 	<p>Protection Against Electric Shock</p> <ul style="list-style-type: none"> <input type="checkbox"/> Live parts insulated, protected by barrier / enclosure <input type="checkbox"/> RCD provided if required <input type="checkbox"/> Earthing conductor / circuit protective conductor present <input type="checkbox"/> Main equipotential bonding conductors present <input type="checkbox"/> Supplementary equipotential bonding conductors present <input type="checkbox"/> Equipment class II <p>Wind System</p> <ul style="list-style-type: none"> <input type="checkbox"/> Separation of AC and DC circuits <input type="checkbox"/> Double pole AC switch-disconnector lockable in off position only mounted adjacent to Consumer Unit <input type="checkbox"/> Double pole AC switch-disconnector mounted adjacent to inverter <input type="checkbox"/> Double pole DC switch-disconnector rated for full load <input type="checkbox"/> DC cabling equivalent of double insulated <input type="checkbox"/> All DC components rated for operation at DC <input type="checkbox"/> PV strings fused (mandatory for more than 3 parallel connected strings) <input type="checkbox"/> PV frame earthed if required <input type="checkbox"/> Inverter protection settings to ER G77/1 <p>Labelling & Identification</p> <ul style="list-style-type: none"> <input type="checkbox"/> General labelling of circuits, protective devices, switches and terminals <input type="checkbox"/> Presence of PV system schematic at point of connection <input type="checkbox"/> Protection settings and installer details displayed at point of connection <input type="checkbox"/> AC isolator clearly labelled <input type="checkbox"/> Dual supply notices displayed throughout site <input type="checkbox"/> DC isolator / junction boxes suitably labelled <input type="checkbox"/> Signs & labels suitably affixed and durable

† All data entry boxes must be completed. To provide a positive indication that an inspection or a test has been carried out, insert either a 'Yes' or a '✓'. Where an inspection or a test is not relevant to the installation, insert 'N/A' meaning 'Not Applicable'.

INSPECTED BY			
Signature		Position	Chief Engineer
Name (CAPTIALS)	C. Millvard	Date Tested	
Schedule of Test Results Certificate Number			

Wind power Electrical Installation

Schedule of Test Results

Schedule of Test Results Certificate Number

SCHEDULE OF TEST RESULTS (See Section 713 of BS7671:1992)			
Contractor	Solar Energy Alliance	Address/ Location of distribution board:	Instruments
Test Date			Type of Supply: TN-S/TN-C-S/TT
Signature			Loop impedance: <input type="text"/>
Name (CAITALS)	C. Millvard		Ze at origin: <input type="text"/> ohms
Method of protection against indirect contact			PFC: <input type="text"/> kA
Equipment vulnerable to testing			Insulation: <input type="text"/>
			RCD tester: <input type="text"/>

Description of Work:														
Circuit description	Overcurrent Device			Wiring Conductors		Test Results						Remarks		
	Short-circuit capacity kA	type	Rating In A	Live Mm ²	cpc Mm ²	Continuity		Insulation Resistance		Polarity	Eath Loop Impedance Zs ohms		Functional Testing	
						R1 + R2 ohms	R2 ohms	Live/ Live M ohm	Live/ Earth M ohm				RCD time ms	Other
AC Circuits														

Deviations from Wiring Regulations and special notes: