SITE ASSESSMENT FORM

1.0 PERSONAL CONTACT DETAILS

Title	
Forename(s)	
Surname	
Company Name	
Position	

Mobile No			
Telephone No		Ext	
Fax No			
Email Address			
Web Address			

1.1 POSTAL ADDRESS

Address Line 1	
Address Line 2	
Town	
County	
Post Code	
Country	

2.0 SITE ADDRESS – (if different)

Address Line 1	
Address Line 2	
Town	
County	
Post Code	
Country	

Site Contact Name	
Site Telephone No	

Aeolus Power Ltd. Foxhole Farm, Pilning Street, Pilning, South Gloucestershire, BS35 4JJ, UK
Tel: ++44 (0)1454 633323 Email: contact@aeoluspower.co.uk Web: www.aeoluspower.co.uk

2.1 SITE INFORMATION

Site Access				(road etc)
Ground Conditions				(rock, clay, grass, etc.)
Avg Wind Speed	m/s	Prevailing Wind Direction		
Distance from Wind Turbine to Nearest Buildings			m	
OS 6-figure Map Ref				

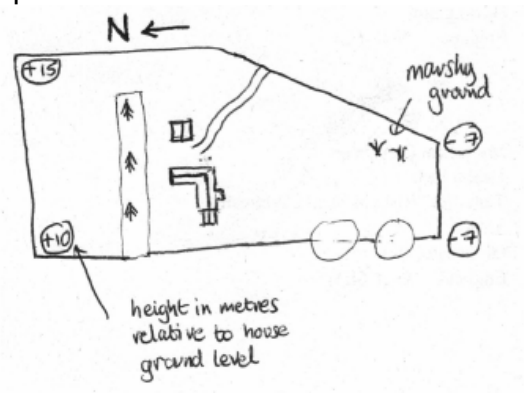
Site Plan & Elevation Use separate sheet if necessary

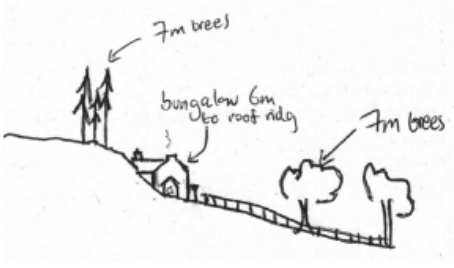
Indicate any potential obstructions such as buildings / trees – heights would also be helpful
Orientate the sketch by showing North direction.

N

Including (marked) maps and photographs would be advantageous –returnable upon request

Example :





2.2 CURRENT ENERGY SUPPLIES

Source	Annual Cost		Heating / Electricity	
mains	£			
wood / coal	£			N/A
gas / oil	£			N/A
diesel set	£ size running	KW or kVA hrs per day		
other (specify)	£			

Please tick usage above

**Enclosing electricity bills for already grid-connected sites will provide us with accurate information for sizing an appropriate system.*

2.3 RENEWABLE POWER REQUIREMENT

Renewable Generator Required

Please tick where appropriate:

Wind Turbine ☐ Solar PV ☐ Hydro Turbine ☐

Hybrid Wind & Solar PV ☐ Battery & Inverter ☐ Other - Specify

Renewable System Required

Grid-Connected ☐
Grid-Connected – with Batteries ☐
Battery Charging ☐
Direct Heating ☐
Water Pumping ☐
Other - Specify

Application

Please indicate what the renewable energy system will be used for (telecoms, domestic electricity, etc.

Demand

If you know your daily kWh reading please enter it here – otherwise use the energy estimator sheet attached.

KWh

Existing Equipment

If you have a backup system (diesel generator) on site or an existing renewable energy system please indicate details below.

2.4 ENERGY ESTIMATOR SHEET

The Energy Estimator Sheet is an excellent tool for a customer who is off-grid and therefore has no electrical information such as power bills to work from. The estimator sheet allows us to see the total electrical appliances at the site and their frequency of usage. In turn we can size a suitable system to cope with the demand. Even if you are grid connected and have power bills, this might be a good exercise for you to see how much money you could save by switching to low energy appliances and low energy lights!

Fill in column 4 with the total number of each appliance in use.
Column 5 should show the total number of hours each appliance is used on a daily basis
Column 6 is a simple calculation – multiplying column 3 x 4 x 5 and dividing by 1000 (turning Watts (W) to kW)
Column 2 is simply the Wattage of the appliance (column 3) x Number in use (column 4)
Days of use – column 7 – please enter how many days, out-of-seven that you use the appliance.

ENERGY ESTIMATOR SHEET

	1	2	3	4	5	6	7
Appliance	Wattage	Total Watts in Simultaneous Operation	Average ON Wattages	Total Number in Property	Hours Used per Day	kWh per Day	Days of Use
Lighting							
Tungsten	100		100				
Tungsten	60		60				
Fluorescent (CFL)	20		20				
Fluorescent (CFL)	11		11				
Strip Lights (tube)	80		80				
Strip Lights (tube)	60		60				
Kitchen & General Household							
Dishwasher	1200		1200				
Electric Kettle	3000		3000				
Electric Kettle	2000		2000				
Freezer - normal	530		60				
Freezer - low energy	180		21				
Iron	1250		100 - 500				
Microwave Oven	900		900				
Microwave Oven	800		800				
Microwave Oven	750		750				
Microwave Oven	600		600				
Refrigerator - normal	290		31				
Refrigerator - low energy	80		9				
Toaster - normal	1360		1360				
Toaster - low energy	850		850				
Tumble Drier - normal	4500		4500				
Tumble Drier - low energy	2200		2200				
Vaccuum Cleaner - normal	900		900				
Vaccuum Cleaner - low energy	400		400				
Washing Machine - normal	2000		250 - 500				
Washing Machine - low energy	1000		150 - 300				
Electric Clock	4		4				
Clock Radio	5		5				
Alarm/Security System	6		6				
Personal Care							
Hair Dryer	1500		1500				
Hair Curler	750		750				
Electric Toothbrush	6		6				
Other							
Central Heating Pump - low	40		10 - 40				
Central Heating Pump - medium	65		15 - 65				
Central Heating Pump - high	100		25 - 100				
Entertainment							
Colour TV - 32"	200		200				
Colour TV - 25"	150		150				
Colour TV - 19"	80		80				
Surround Sound System	500		500				
Video Recorder	30		30				
DVD Player	30		30				
Hi-Fi System	55		55				
Gaming System (Playstation etc.)	20		20				

Maximum Power in Watts _____ **Daily kWh** _____

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3. MECHANICAL INSTALLATION

Ground Conditions for setting Base Plate: to include size of foundations required, lengths of cabling and size of armoured cable.

Please note also, that photographs must be taken of the step-by-step installation of the Foundation plate and returned to your installer for inspection. (see photo's attached)

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4. ELECTRICAL INSTALLATION

a) Method of connection to consumer unit (e.g. dedicated fuseway)

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b) Earth Testing

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c) Proposed location of Inverter

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d) Metering arrangements – (location/meter types)

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e) Details of electricity supplier and network operator

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5. PLANNING CONSIDERATIONS

a) proximity of proposed location to nearby residents and assessment of potential nuisance from noise or flicker

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b) details of listed buildings or if conservation area

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c) Ecology (e.g. impact on bats' roost etc.)

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6. HEALTH AND SAFETY

a) access for turbine to arrive on site

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b) Plant and equipment necessary for off-loading and installation of turbine

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c) electrical hazards (i.e. live overhead cables)

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d) underground utilities (gas/water/telephone)

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e) details of public access and any congregation zones

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7. SYSTEM PERFORMANCE

Wind Speed of Site at 10m agl……..

Wind Speed of Site at 25m agl …….

Estimated annual energy performance……

Please note: The performance of wind turbine systems is impossible to predict with any certainty due to the variability in the wind from location to location and from year to year. This estimate is based upon the best available information but is given as guidance only and should not be considered as a guarantee. For a greater level of certainty, it is recommended that on-site wind speed monitoring is undertaken for at least a year.

The power available from the wind is related to the cube of the speed. In practice, this means that a 20% increase in wind strength will almost double the power available. It is therefore very important to maximise the incident wind on the turbine blades. Wind speed increases with height and even small increases in turbine height can produce significant improvements in performance.

This is to confirm that I have discussed the installation of wind turbine with Aeolus Power and understand the process involved.

…… Customer

…… Dated

…… Surveyor
(on behalf of Aeolus Power Ltd.)

Once the whole Site Assessment form is completed (including the Estimator sheet), please return it to us for processing. You can email or post it back to us – whichever is easiest!

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