

Code No. MAE P/2009/0720 - Hill Farm, Braden Heath. SY13 2LQ



METHOD STATEMENT / SAFE SYSTEM of WORK

Your Energy Choice Ltd (Trading as Windeco (West)) is committed to achieving excellence in safety management. As part of this commitment Windeco (West) will endeavour to produce and instigate effective and accurate Safe Systems of Work for all works to be undertaken.

All work will be conducted in accordance with the Windeco Safety Procedures

PROPOSED WORKS: To Excavate a hole in a grassed field at Hill Farm, Braden Heath, Hanmer. SY13 2LQ. The excavation will measure 4metres x 4 metres and to a depth of 1.6 metres.

WORK ORDER: Hill Farm – 10KW **SUB ORDER:** December 2009

LOCATION: Hanmer, Braden Heath :
Whitchurch. SY13 2LQ

DURATION: 1 Day - Foundations CDM APPLICABLE NO
2 Days - Assembly and erection of
Turbine onto concrete base.
approximately 4 weeks
after the foundations have set.

Where the CDM regulations **do not** apply then the principles will still be adopted.

HSE NOTIFICATION REQUIRED: NO

No. OF OPERATIVES LIKELY TO BE INVOLVED: 7 people approx.

SUPERVISOR/RESPONSIBLE PERSON: Mark Hornby (Eco Turbine Installations Ltd)

ON SITE SUPERVISOR: Mark Hornby (Eco Turbine Installations Ltd)

BRIEF DESCRIPTION OF THE WORKS

To excavate a hole measuring 4 x 4 x 1.6 metres. Place a premade steel ringed support in the centre of the hole. Level and secure to the bottom of the hole to prevent the steel ringed support ring from floating. Pour the 24 m3 of concrete,(C35 / C3A, WRA + Fibres). Frost Protect and leave the concrete to cure.

Three to four weeks later: - Using the route designated within the planning permission bring in the components for the VAWT turbine. Mount the Galvanized steel pole onto the steel studs protruding from the concrete base, Secure with steel nuts.

Build the mill and generator system. Use a crane to lift onto the top of the Galvanized pole and secure. Electrician (17th Edition), to connect the Generator, Wind Controller, Inverters and Isolators.

SEQUENCE OF OPERATIONS

1. To excavate a hole, that will have a concrete base constructed in it, in a grassed field at Hill Farm, Braden Heath, Hanmer. SY13 2LQ. The excavation will be sited as required by Planning drawing P/2009/0720, dated 02-Nov-2009. It will measure 4 metres x 4 metres and to a depth of 1.6 metres.
 2. Using a 12" bucket on a JCB a cable trench will be excavated between the turbine excavation and the barn where the new distribution panel will be relocated by the Electricity Supplier.
 3. Spoil to be dispersed on farm land as required by client.
 4. A pre-made Steel support ring structure is secured to the bottom of the excavation and checked for level.
 5. A Plastic pipe is routed from the cable trench to the centre of the support ring, protruding 5-15mm above the ring plate. A second plastic pipe is routed in the opposite direction, and again to the centre of the support ring. This pipe will take the lead for the Bonding / Earthing cable, for Lightning protection.
 6. Install the armoured electrical cable into the cable trench. (protect from sharp edges, flints.) Soft Sand.
 7. Refill cable trench and compact.
 8. A total of 24 m3 of 35 Newton concrete (With Nylon Fibres) is to be poured into the excavation. De-aerated and levelled. (Covered for frost protection). Leave for 2 – 4 weeks to cure.
- . 2nd Visit
9. Lift the 5.5 metre pole into position and secure.
 10. Build the mill and generator system on the support frame.
 11. Use a crane to lift the mill & generator onto the top of the Galvanized pole, and secure.
 12. Electrician (17th Edition), to connect the Generator, Wind Controller, Inverters and Isolators.
 13. Install earthing rod into ground and attach lightning conductor.
 14. Electrician to test and commission.
 15. Refill loose earth on top of concrete and re-grass.

Risk Assessments Completed and Attached Yes

SITE ACCESS AND STORAGE

Site access will be via the 2 gates 65 metres due east of the turbine site.

All tools will be removed from site at the end of each working day.

Turbine materials will be left on site, partially assembled.

WELFARE ARRANGEMENTS

The client will provide site welfare.

If required, additional shelter will be made available at the work site in the event of short lived inclement weather.

PROTECTIVE EQUIPMENT REQUIRED BY ALL PERSONNEL ON SITE

e.g.

Hard Hat, Safety Boots, Hi-Vis clothing

Safety helmets conforming to BS5240

Safety footwear

ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT REQUIRED FOR SPECIFIC OPERATIONS

e.g., Dust Mask, Eye protection, Ear protection etc.

The wearing suitable gloves and though using only hand tools the following individual protective equipment will be available if required.

- Eye protection to BS2092
 - Hearing protection to BS 5108
 - Disposable respiratory protection to EN149
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NOTICES /SIGNAGE**SITE SIGNAGE:**

- Hard Hats to be worn on this site
 - Site entrance / plant turning
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IMPLICATIONS TO THIRD PARTIES / GENERAL PUBLIC

Members of the public will not permitted to enter the site area.

TRAFFIC MANAGEMENT - ROAD / PEDESTRIAN, ETC

Pedestrian access will not be impeded

No road traffic management will be required.

TEMPORARY WORKS

None

EMERGENCY SERVICES LOCAL CONTACT No's:

Name	Telephone	Location
1. Fire.	999	Whitchurch
2. Police.	999	Whitchurch
3. Ambulance/Hospital	999 or 01948 666292	Whitchurch Hospital
4. Doctors Surgery	01948 830223	Sandy Lane Hanmer, Whitchurch, Shropshire SY13 3DL
5. Site First Aider	N/A	To be agreed on site

If the situation is an emergency then DIAL 999 and request the service required

Windeco (West) will inform the necessary parties and will also contact the HSE, where required by RIDDOR.

SERVICES: N/A

Name	Location
Telephone	
1. Electricity	N/A
2. Gas Service	N/A
3. Water Board	N/A
4. Others (BT, ipsaris, etc)	N/A

SITE SPECIFIC EMERGENCY PROCEDURES ATTACHED

No

ENVIRONMENTAL CONSIDERATIONS

Newts, Birds and Bats

No particular impacts on any of the ecological features identified in conjunction with Zara Lomax or during the walkover survey are envisaged.

Information concerning identification of Great Crested Newts and other newts have been provided to the client and Windeco (West) who will be jointly responsible for disseminating this information to the construction personnel. The construction personnel will look out for any newts and should one be found report this to the client and on site supervisor. The ecologist may then be required to attend site. In addition the work should ideally be undertaken outside the bird nesting season and no work should be undertaken in close proximity to the mature Oak trees during the main bat breeding season. Vegetation within the proposed development footprint should be stripped ahead of any other construction works.

ADDITIONAL ITEMS FOR CONSIDERATION

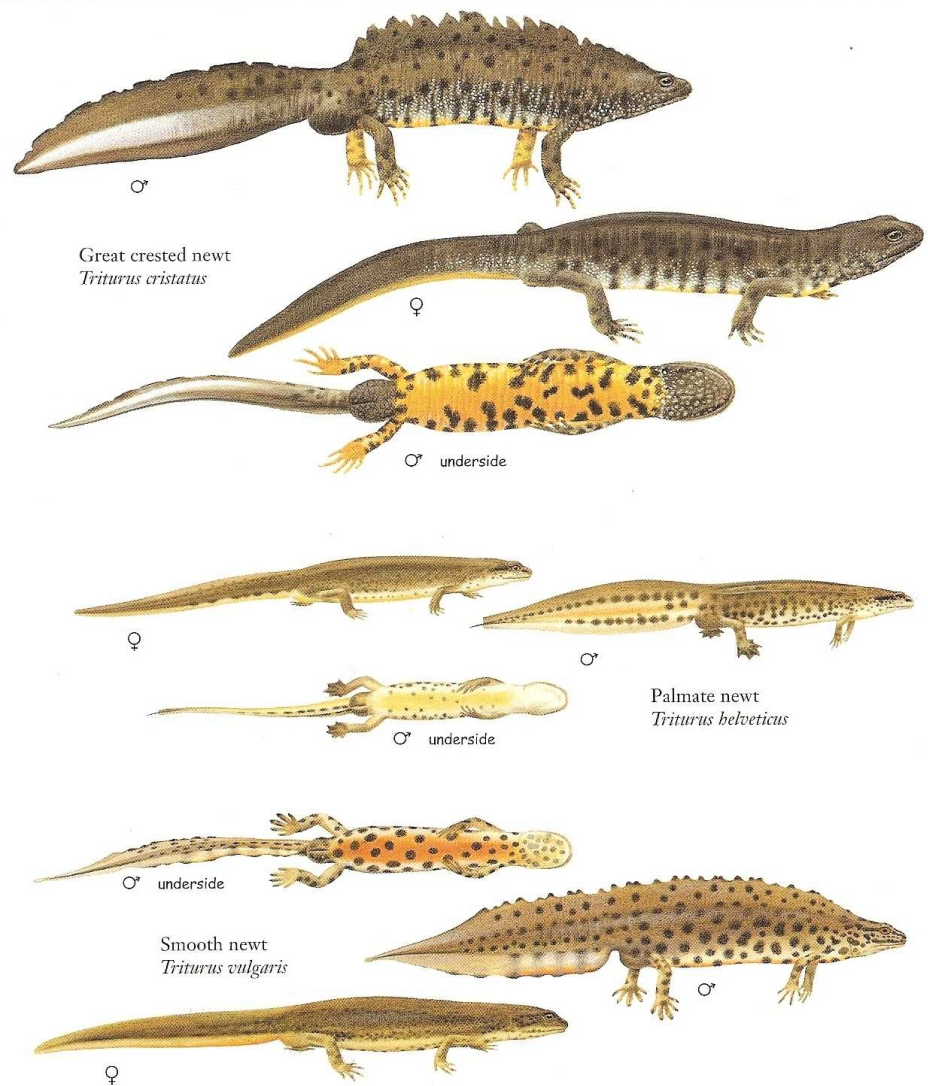
See Newt identification attachment

STATEMENT PREPARED BY: D BEDFORD
MaPS, Nebosh

DATE: 14/12/2009

POSITION : Project Manager

Date of last update : 14/12/2009



Guide to the
reptiles and
amphibians of
Britain and Ireland



All approximately life size unless otherwise indicated