



## **Transport and Access Statement**

**Project** 12/00619/PP - Croish

**Proposal** Installation of a single 15kw wind turbine on a 15m mast

**Address** Croish, Caoles, Isle of Tiree, PA77 6TS

## 1. Program of delivery

The total duration for the installation of the C&F Green Energy wind turbine will be six weeks from the start of development and will comprise of the following key stages:

- Base delivery and installation
- Cable delivery and installation
- Turbine delivery and installation

## 2. Materials and Resource

Key construction materials are listed below

### 2.1 Construction

- 64m<sup>3</sup> concrete
- 3 tonnes structural steelwork
- 190m SWA electric cable
- 2 x 15m mast (each comprised of 4 sections – max length 6m)
- 2 x Turbine head
- Turbine blades – (6 x) 6 meters

### 2.2 Plant and Equipment

The plant and equipment associated with the key elements of the construction process is set out in Table 1.

**Table1: Estimated Types of Plant Used During the Construction and Installation Phase**

Plant	Stage			
	Base	Cabling	Delivery	Installation
360' Excavator	*	*		*
Power Tools	*			*
Tele-handler	*		*	*
Delivery Trucks	*		*	*
Dumpers	*			
Petrol Generator	*			*

### **3. Proposed Construction Methodology**

#### **3.1 Base Installation**

Concrete required for the base installation will be delivered to the site by MacKinnon Haulage using vehicles which are frequently used by them on Tiree. The concrete will be mixed on site in a 7 cubed batch mixer.

#### **3.2 Cable Installation**

The cable installation will follow on from the base pour. Cables will be delivered by pallet service by courier and transferred to MacKinnon Haulage at the Peir in Tiree for delivery to the development site.

#### **3.3 Turbine delivery**

The components of the 15kw wind turbine are delivered in sections, the longest of which does not exceed 6m in length.

The total weight of the turbine is less than 5 tonnes.

The entirety of the turbine will be delivered directly to the development site on a four wheel flat-bed truck. If the weather is such that the flatbed truck is not able to get right out to the site, the individual parts can be loaded onto a trailer for the final stages of the delivery.

#### **3.4 Turbine Installation**

No crane or other major machinery is required during the final phase of installation as the tower is raised using a hydraulic ram.

All transportation vehicles involved in the installation process will be of a size and nature which is commonly used on roads in Tiree. As such, there should be no special arrangements necessary for delivery to site – such as road widenings, escorts or traffic safety measures and no potential damage to public roads is predicted.

**Table 2: Construction Programme**

Activity		Duration	Timescale ( weeks from start of development)					
			1	2	3	4	5	6
1a	Excavation of Base	1 day						
1b	Foundation Reinforcing	1 day						
1c	Foundation Structural Concrete Pour	1 day						
2a	On-site Cabling	2 days						
3a	Turbine & Tower Delivery	1 day						
4a	Turbine Erection	1 day						
4b	Turbine Commissioning	1day						