



Tree Protection

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Introduction

This document outlines British Gas Solar's intentions to protect the trees within the construction area of the photovoltaic system at Legacy. This document specifically relates to the discharge and compliance with Condition 9 of Planning Permission ESC P/2014/0263

Summary

There are three Trees within the site that are subject to Tree Preservation Orders (TPO's) identified as T22, T23 and T24 on the image (TPO1) below, which will require physical protection during all stages of the approved construction. They are to be protected by Construction Exclusion Zones (CEZ's) as recommended in BS 5837: 2005 and as shown on the Trees Protection Plan (TPP) 208622-1013-A. The other trees subject to a TPO which are within the site boundary are sufficiently far enough from construction activities that could cause harm to require a Construction Exclusion Zones to be put in place, these trees will also be outside of the perimeter fence constructed for the PV arrays.



TPO1

Extract from TPO map 1975 – circles & dotted outlines indicate TPO's. Bronwylfa Road and site access is shown to the left of the map. (The access avoids TPO trees).

1.0 Sequence of Events

- 1.1 The following sequences are governed by operational constraints and subject to change. The developers arboriculturalist must be noted of any changes to this schedule:

Construction Stage

- Site establishment in order to provide welfare to operatives
- Creation of Construction Exclusion Zones for tree subject to TPO's
- Construction of Perimeter fencing
- Construction of PV arrays
- Removal of site plant
- Removal of CEZ's

- 1.2 Arboricultural supervision is to be carried out at all crucial stages throughout the development process to ensure detailed tasks are carried out as per the approved methodology.
 - Any incursion into CEZ's for whatever reason.
- 1.3 This supervision will require the arboriculturalist to be present throughout the tasks, to ensure all the arboricultural objectives are met.
- 1.4 If the task is to take a long period of time, provided the arboriculturalist is satisfied, the supervision may be reduced to telephone contact between the site Project Manager and the arboriculturalist.
- 1.5 The local authority will have free access to the site and be able pass any recommendations or requirements directly to the British Gas .

2.0 Root Protection Areas

- 2.1 Root protection areas (RPA's) have been determined for all tree trees subject to a TPO. The RPA's are designed to protect at least a functional minimum of tree root mass in order to ensure that the trees survive the construction process. The RPA is incorporated in to the CEZ.
- 2.2 It is the responsibility of everyone engaged in the construction process to respect the tree protection measures and observe the necessary precautions within and adjacent to them.

3.0 Restrictions within Tree Protection Areas

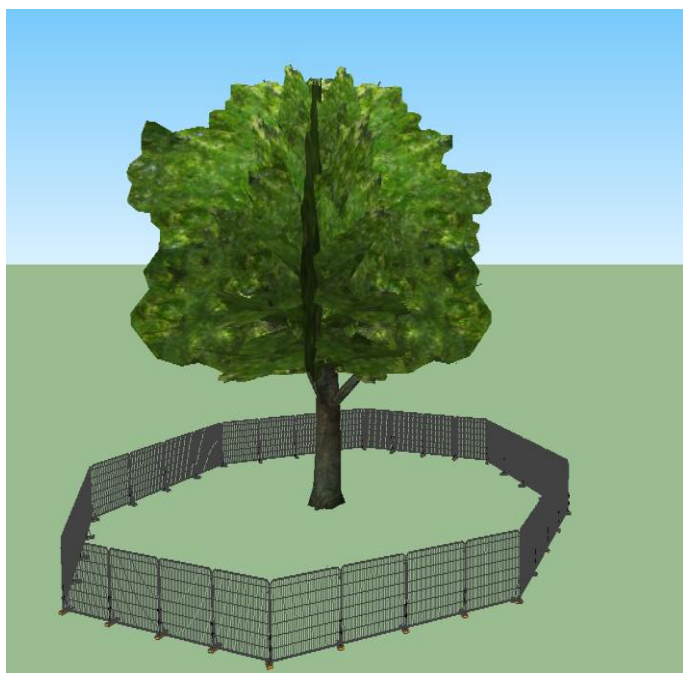
- 3.1 Inside the exclusion area of the Protective Fencing, the following shall apply:
 - No mechanical excavation
 - No Fires
 - No excavation by any other means without arboricultural site supervision.
 - No hand digging without a written method statement having first been approved by the developers arboriculture list.
 - No ground level changes whatsoever.
 - No storage of plant or materials.
 - No storage or handling of any chemicals.
 - No vehicular access.
 - No mixing of cement products

4.0 Tree Protection Fencing

- 4.1 The Tree Protection Plan (TPP) shows the position of the Tree Protection Fencing (TPF). This fencing comprises of one type as detailed below. Vertical banners should be erected and ground protection installed before any materials or machinery are brought onto site and before any demolition, development or stripping of soil commences.
- 4.2 Once erected, barriers and ground protection will be regarded as sacrosanct, and will not be removed or altered without prior agreement of an arboriculturalist and approval of the local planning authority.

- 4.3 Barriers should be fit for the purpose of excluding constructive activity, and appropriate to the degree and proximity of work taking place around the retained tree. Special attention should be paid to ensuring that barriers remain rigid and complete.
- 4.4 In most cases, barriers should consist of a scaffold framework in accordance with TPO2 comprising a vertical and horizontal framework, weld mesh panels should be securely fixed with wire or scaffold clamps.
- 4.5 Should any alternative method of barrier construction be proposed, consultation with the developers arboriculturalist will be obtained to clarify the efficacy of the revised design prior to informing the local planning authority and obtaining their consent.
- 4.6 Once the exclusion zone has been protected by barriers and/or ground protection, construction can commence. All weather notices should be fixed to the barriers with the words: 'Construction exclusion zone – Keep out' or similar (TPO3).
- 4.7 The local authority will be contacted in advance of removing the protective fencing their approval will be gained before the fence is removed

Protective Barrier



TPO2

Example of Tree Protection Warning Sign.



TPO3