

Vyrnwy Frankton

Guide to the Plans

February 2025



greengencymru.com

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1 Introduction

1.1 Purpose

1.1.1 This document provides guidance to the plans that Green GEN Cymru have produced as part of our materials for the statutory consultation which runs from the 19th February to the 16th April 2025.

1.1.2 This guide provides more detail as to what is shown on the plans we are providing.

1.2 An Overview of the Project

1.2.1 The Project comprises:

- Approximately 50km double circuit 132kV connection from the new 132kV Grug y Mynydd Collector Substation (which is close to the existing Tirgwynt Wind Farm and to proposed wind farms being promoted by Bute Energy Ltd (Llyn Lort Energy Park) and Vattenfall (Mynydd Lluest y Graig Wind Farm) in Powys, Wales) which will accommodate incoming Overhead Lines (OHL) from additional proposed energy sites.
- A new Underground Cable (UGC), which will be routed from the Grug y Mynydd Collector Substation, through the proposed Llyn Lort Energy Park to avoid conflicting with the proposed turbines and connect to a new Cable Sealing End Compound (CSEC) near Cors y Carreg which is required to transition from a UGC to an OHL.
- A new OHL which be supported on a type of tower referred to as an L7 design, a steel lattice tower with six cross-arms (three on each side);
- A new Switching Station near Lower Frankton which allows the power to be isolated from the substation being developed by National Grid Electricity Transmission to connect to the existing 400kV national electricity transmission system in Shropshire, England.
- There will also be temporary works associated with the construction of the Project.

2 The Plans

- 2.1.1 Green GEN Cymru has provided a series of plans to support the statutory consultation.
- 2.1.2 All the plans published in support of the consultation are, at this stage, based on typical and indicative designs. They are intended to provide a general understanding of the Project and to help inform feedback.
- 2.1.3 The plans illustrate our current proposals. The proposals may change in response to consultation feedback, ongoing engineering design, further surveys and environmental assessment.

Draft Order Limits

- 2.1.4 The draft Order Limits shown on the plans show the maximum extent of land within which the Project may be carried out. This includes both the permanent and temporary land required to build and operate the Project.

Limits of Deviation

- 2.1.5 The Limits of Deviation (LoD) represent the maximum deviation for the permanent underground cable and OHL infrastructure. The LoD allow for the adjustment to the final positioning of the Project features to avoid localised constraints or unknown or unforeseeable issues that may arise.

3 List of Plans for Consultation

Title	Description
Location Plan	Shows the location of the Project.
Consultation Plans (including the Consultation Plans Master Key Plan)	<p>The Consultation Plans Master Key Plan shows the draft Order Limits and the layout of the individual sheets of the Consultation Plans.</p> <p>It also shows the local authority boundaries.</p> <p>The Consultation Plans provide a detailed overview of the current proposals.</p> <p>There are 39 individual sheets at ‘1:2500’ scale.</p> <p>They show the indicative locations for:</p> <ul style="list-style-type: none"> - the Grug y Mynydd Collector substation (including the area required for construction compounds and temporary working areas); - the proposed route of the underground cable; - the location for the cable sealing end compound; - Tower locations (denoted as GVFXXX); - the switching station (including the area required for construction compounds and temporary working areas, and the new 400kV substation that will be consented and delivered by National Grid); - construction compounds; - temporary working areas including for example tower laydown areas, stringing and scaffolding);

Title	Description
	<ul style="list-style-type: none"> - permanent and temporary access works (including bellmouths) and potential drainage discharge areas. <p>The plans are ordered from south (Powys) to north (Shropshire).</p> <p>The plans include the preferred draft alignment as currently envisaged (for underground cables, steel lattice towers, the draft Order Limits and LoD).</p>
<p>Typical Layouts Construction</p>	<p>These show:</p> <ul style="list-style-type: none"> - main site compound typical layout; - satellite compound typical layout; - tower working area typical layout; - stringing area typical layout; - indicative crossing protection using (required during construction where an overhead line crosses for example a main road); - indicative cross section installation detail for the 132kV underground cable; and - typical bellmouth layouts.
<p>Typical Tower and Foundation Designs</p>	<p>These show, for L7(c) steel lattice towers:</p> <ul style="list-style-type: none"> - typical tower general arrangement; and - indicative foundation designs for alternative types of L7(c) steel lattice towers (angle and suspension towers).

Title	Description
Indicative Site Layouts	Indicative layouts for the: <ul style="list-style-type: none"> - Grug y Mynydd Collector substation; - Lower Frankton switching station; and - Cable sealing end compound.

4.9 Responding to the consultation

3.1.1 The consultation runs from the 19th February to the 16th April 2025.

3.1.2 Feedback to the consultation can be provided in the following ways:

- Online feedback form on the project website
<https://greengenvyrnwyfrankton.com>
- Hard copy feedback from available at community events or by request from the consultation team (please contact by freephone or email)
- In writing to info@greengencymruvyrnwyfrankton.com or FREEPOST Green GEN Cymru V2F (no further stamp or address needed)



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