



Traffic Management Plan

Erection of a 5 MW Photovoltaic cell (solar panels) system
at
Williams Farm
Wrexham
LL13 9XS

Introduction

This proposed management plan seeks to address the concerns initially raised by the Highways authority with regard to the sites access and traffic movement.

- The main objectives of the management plan are to:
- Provide a safe route for construction traffic to access and depart the Solar Farm;
- Identify the traffic management measures to prevent or minimise the effects of construction traffic on the surrounding highway network and to the general public;
- Ensure construction HGVs use the identified vehicular route only;
- Ensure there's no congestion resulting from construction vehicles within the vicinity of the Solar Farm;
- Prevent parking of construction vehicles on the adjacent road network;
- Provide control measures to limit the speed of construction vehicles on the site's access road;
- Prevent loading and unloading of construction materials on public roads; and
- Provide details on the average daily vehicle movements generated by the project

Construction Access route

Through on-site assessments for pre-construction enabling works, construction works and demobilising it has been determined that in the interests of highway safety and to minimise disturbance from construction traffic, all HGVs travelling to and from the proposed solar farm will take the following access route:

Leave the M6 at junction 10A, then join the M54 motorway, North and Mid Wales. Leave the M54 at junction 3, then at roundabout take the 3rd exit onto the A41 Whitchurch. At roundabout take the 2nd exit onto the A41 Newport. At roundabout take the 2nd exit onto the A41 Whitchurch.

At Tern Hill Roundabout take the 2nd exit onto the A41 Whitchurch. At Prees Heath roundabout take the 3rd exit onto the A41 Whitchurch. At roundabout take the 1st exit onto the A41 Chester. At roundabout take the 1st exit onto the A525 Wrexham. At roundabout take the 2nd exit onto the A41 Chester. At roundabout take the 1st exit onto the A525 Wrexham. At crossroads continue forward onto the A525 Wrexham. At roundabout take the 2nd exit onto Bridge Road turn right onto Redwither Road.

Construction Deliveries

Material deliveries will include solar panels, associated mounting frames and technical equipment for the generation of electricity, gravel and other construction materials, construction plant and other equipment.

At the site entrance, HGVs will be assisted by a banksman to aid manoeuvres in and out of the site. There will be no loading or unloading on the public highway.

HGV deliveries will be co-ordinated via a delivery rota system to avoid large numbers of vehicles arriving and exiting the site at the same time. This will prevent on-site congestion and will ensure deliveries are spread evenly through the day. There will be no site deliveries outside of 0900-1500 and 1600-1800. Wherever practical there will be the consolidation of deliveries.

A turning circle for construction vehicles will be constructed at the Solar Farm. This turning area will ensure construction vehicles do not reverse onto the adjacent public highway. Furthermore, construction vehicles will be prohibited from parking on the adjacent road network. Drivers of construction vehicles exiting the Solar Farm will be instructed to always give-way to any local traffic and pedestrians.

The on-site banksman located at the site access point will ensure vehicles enter and exit the Solar Farm in a safe and efficient manner.

Site Access

Access to the construction site will be controlled and manned by a banksman at the site entrance. The banksman will be responsible for controlling all traffic accessing and exiting to reduce the potential safety issues on the site access lane.

In the interests of highway safety and to minimise disturbance from construction traffic a maximum speed limit for all construction drivers of 20 mph to and from the site along the adjacent classified single-lane country road will be implemented.

Construction and decommissioning schedule and delivery hours

Construction vehicle traffic movements can be broken down into two elements; material deliveries and labour force transport to the site where the peak construction period would be between the first 4 -6 weeks of the operation

All construction works will take place between:

0730 and 1800 - Monday to Friday

0800 and 1300 - Saturday

No construction or decommissioning works will be undertaken outside these hours or on Sundays, Bank or Public Holidays without obtaining prior written agreement from the LPA.

A workforce forecast has been calculated and based on the development programme it expected the workforce will peak at approximately 30 personnel during the first 4 – 6 weeks of the installation. Using standard working assumptions, it is anticipated that this peak will generate approximately 20 worker vehicles daily. Parking would be provided at the logistics location on the site.

The majority of personnel and other light goods vehicles (LGVs) will arrive on site during the AM peak period and will depart during the PM peak period. HGVs will be distributed evenly throughout the day.

During the construction phase it is anticipated that vehicle numbers will be in the region of 22 HGV vehicles per day over a 4 week installation period or 16 HGV vehicle movements over a 6 week period with deliveries to be scheduled to site in a sensitive manner to minimise disruption to the local community and allow free flow of traffic.

- There will be no site deliveries outside of 0900 to 1500 and 1600 to 1800.
- There will be no unloading or loading of materials on public roads adjacent to the site.

Site security

For security and safety purposes the Solar Farm will be closed to the general public via security fencing and a locked gate. The security fence installed around the perimeter of the Solar Farm will be erected at the start of the construction programme and will remain for the duration of the operation and decommissioning of the Solar Farm.

In the interests of site safety and to deter criminal activity and vandalism, security cameras will be incorporated into the site but will only view the perimeter fence line and the inverter platforms which are sited within the solar module arrays. During the construction, operation and decommissioning phases the site will have no external artificial lighting.

Local Environmental and Residential Amenity Protection

In addition to the mitigation measures outlined in the previous sections, the contractor will also implement the following measures to protect the local environment and residential amenity during construction:

- Banksman controlling access and egress from the site. This will ensure safe vehicle movement onto and off the site;
- All marshalling areas and site offices to be included within the site boundary;
- Adequate storage space on site- this will also ensure the site entrance is not subject to any blockage at any time of the day;
- All loads to be properly stowed and secured with a tarpaulin, where appropriate;
- Routine sweeping/cleaning of dirt and stones from the site's access road; and
- No uncontrolled run-off to the public road from any dewatering/pumping carried out during construction activity.

Road Cleanliness and Dust Suppression

To control, prevent and minimise dirt on the access route and emissions of dust and other airborne contaminants during the construction works, the following mitigation measures will also be implemented:

- Wheel wash watering equipment will be available and used on-site, as required, to prevent the transfer of dirt and stones onto the public highway. All drivers will be required to check their vehicle is free of dirt, stones and dust prior to departing the Solar Farm;
- Any dust generating activities will be avoided or minimised, wherever practical, during windy conditions;
- Any soil stockpiles will be covered when left for extended periods of time;
- Drivers will adopt driving practices that minimise dust generation; and
- Loads in and out of site will be covered.

Monitoring

The primary purpose of the mitigation measures outlined in this Traffic Management Plan are to ensure that the presence of construction traffic does not lead to any significant environmental degradation or any safety concerns in the vicinity of the proposed works.



The mitigation measures will be monitored by the contractor to ensure that they are implemented and strictly complied with, to ensure that any potential negative impacts arising from the works are prevented.

It is in the interests of the construction programme that deliveries are not unduly hindered by traffic congestion and therefore construction routes, delivery timings and access arrangements should be subject to continuous review as the works progress to ensure efficient operation.

Any accidents and breaches of construction route will be noted and addressed as part of the site's general Health and Safety programme.