

East Aberthaw Solar Welcome

Welcome to our public consultation on East Aberthaw Solar, a new proposed solar farm together with associated equipment, infrastructure and ancillary works on land at Fonmon, Vale of Glamorgan.

The proposed project site is located within the Vale of Glamorgan, and is situated north of Rhoose, between Aberthaw Power Station and Cardiff Airport. The site extends to approximately 40 hectares (ha) / 98 acres in size.

Planning context

Given the nature of this application, and the fact that it will generate more than 10MW of electricity, this project is deemed a Development of National Significance (DNS) and we must apply to the Planning and Environment Decisions Wales (PEDW), which will make a recommendation to Welsh Ministers on whether or not to grant planning permission.

Ultimately, Welsh Ministers will decide whether or not to approve the application, however many other parties will have the opportunity to influence the proposals, including the host local authority, Vale of Glamorgan Council, as well as local communities and interested parties. The scheme is proposed to have an export capacity of circa 35MW – this is equivalent per year to:



11,630 Homes powered



7,161
Tonnes of CO₂
removed



3,818
Cars off the road



Consultation approach and timeline

We are committed to understanding the views of the local communities around the proposed site, and to incorporating these views into the development of the project.

We are currently undertaking informal consultation on the proposals, prior to further refinement and the development of a 'Preferred Design'. A stage of statutory (formal) consultation will take place after the summer 2022 in line with requirements set out in Developments of National Significance (Procedure) (Wales) Order 2016.

Following a period of analysis and any final refinement, the application will be prepared for submission to Planning and Environment Decisions Wales (PEDW) towards the end of 2022.

We would be grateful for local views on the proposed development, any specific considerations you feel we should take into account in our assessments or development of the site design, and where you think we may be able to bring some broader benefit to the community.



East Aberthaw Solar Proposals



East Aberthaw Solar consists of a ground mounted photovoltaic solar farm with an electrical generating capacity of approximately 35MW together with associated equipment, infrastructure and ancillary works. The site extends to approximately 40 hectares (ha) / 98 acres in size.

Why here?

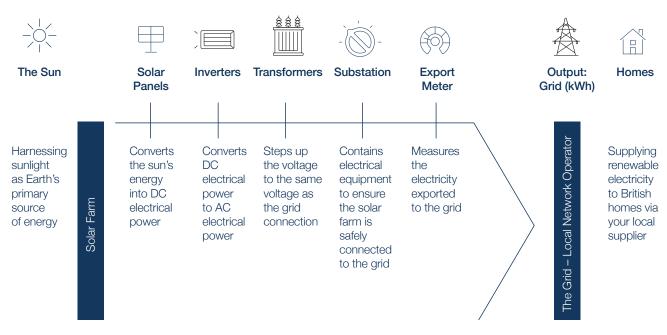
Low Carbon has carefully identified this site as part of a detailed feasibility process to deliver a largescale clean energy scheme.

Many factors are considered by our specialists when evaluating appropriate sites for development. These include considering the available grid locally as well as various planning and environmental constraints.



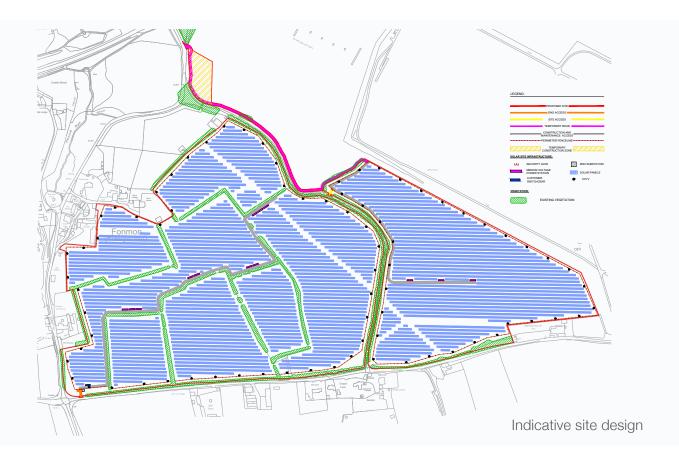
How a solar farm works

The illustration (below) is indicative of the components usually found on a solar farm.





East Aberthaw Solar Indicative Design of the Site

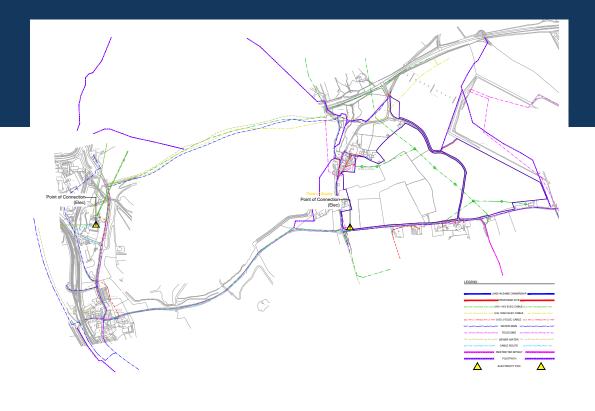


The final design will be informed by considering the findings from the surveys we're carrying out, alongside feedback provided through ongoing consultation.

The specific infrastructure proposed comprises:

- Photovoltaic (PV) panels to a maximum height of 3m
- Mounting frames matt finished small section metal structure pile driven into the ground
- Scheme of landscaping and biodiversity enhancement
- Central Inverters (inverters and transformers will be housed together in prefabricated containers to a maximum height of 3m), substations (maximum height of approximately 4m) and associated underground cabling
- Point of connection at Aberthaw Substation to the west
- Stock fencing up to a height of 2m
- Infra-red CCTV (CCTV cameras would operate using motion sensors and would be positioned inward only to ensure privacy to neighbouring land and property)
- Temporary set down areas and internal service tracks
- Site access for the construction, operational and decommissioning phases

The connection point is proposed a short distance to the west of the site at Aberthaw Substation. The cable connecting to the local electricity distribution network will run underground along Port Road.





East Aberthaw Solar Gathering the necessary technical information



Technical assessments

We are currently in the process of undertaking a range of technical assessments to help us understand the site and local environment as we develop the solar farm proposals. These assessments will be recorded and form the evidence base we submit as part of the application.

Our final application will present the results of a detailed assessment of the potential beneficial or adverse environmental effects and impacts arising from the proposed development of the solar farm.

Assessments currently being undertaken include:

- Transport
- Ecology including Biodiversity Net Gain
- Heritage including Geophysical Survey
- Landscape and Visual Impact including photomontages
- Flood Risk and Drainage
- Arboricultural Assessment
- Agricultural Land Classification Survey
- Glint and Glare Assessment
- Alternative Site Assessment



Landscape and visual impact assessment (LVIA)

We appreciate that for many local residents, what the scheme looks like is a key consideration. To assess the impact of the proposed solar farm on the local area, a Landscape and Visual Impact Assessment (LVIA) will be carried out as part of the Environmental Impact Assessment (EIA).

Environmental considerations

We are undertaking an assessment of the potential ecological effects and proposed mitigation measures required to address any impacts of our proposals on the local environment. This work will cover the main site, as well as the cable route corridor.

Wherever possible, we will be looking at how we can provide additional benefit through ecological enhancement and mitigation, which will allow us to help improve biodiversity across the site. Examples of how this could be achieved include enhancement of existing site features such as hedgerows as well as additional planting and management of wildflower areas and grassland on field margins and between panels.

Throughout the lifetime of the project, the site ecology and environmental impacts will be monitored, and revisions to planned mitigation will be assessed and agreed upon with relevant statutory bodies.



East Aberthaw Solar Frequently Asked Questions



Why here?

Low Carbon has carefully identified this site as part of a detailed feasibility process to deliver a large-scale clean energy scheme. Many factors are considered by our specialists when evaluating appropriate sites for development. These include considering the available grid locally as well as various planning and environmental constraints. This site is close to an available connection point to the local electricity network at Aberthaw and has good access for construction and ongoing maintenance.

Will the impacts to agricultural land be taken into consideration?

Yes. Understanding the nature and quality of the land (Agricultural Land Classification – ALC) within the site is an important assessment for us to undertake as we develop the scheme design. This will help us ensure that lower grade land is prioritised for use, and that 'Best and Most Versatile' (BMV) agricultural land is avoided.

Initial assessment has shown that this site does not contain high quality agricultural land (it has been assessed to be Grade 3b). We intend to continue to use the land for grazing as part of the management of the grassland within the site, and the construction and decommissioning of the infrastructure will have little impact on the land quality due to the nature of the proposals and construction methods utilised.

Will the site increase flood risk in the area?

Solar panels are mounted on frames which are driven into the ground on spikes. Very little concrete is used on solar farms, generally limited to the bases for the transformers and the substation and switchgear building. Extensive assessment will be undertaken, with mitigation provided to ensure that there is no net increase in flood risk. This site is not expected to result in any impact to existing drainage, however surface water run–off will be assessed and appropriate mitigation will be considered to ensure that there is no change in water drainage from the site.

Will the solar panels be visible from my house?

Visibility of the site from surrounding areas will be a key design consideration. The height of the panels will be relatively low lying therefore much of the site won't be visible from local residential areas in Rhoose, however we know that there are some properties closer to the site, at Fonmon and Nurston which we will be considering very carefully. Provision of additional screening planting and enhancing the hedgerows throughout the site will also improve screening from local roads and properties.

Will panels cover the whole area?

No. There will be lots of green space all over the site. There will be at least gaps of 2.5m between each row of solar panels which will remain grass, and grass will grow underneath each row of panels.

Existing hedgerows and trees will be maintained, with buffers to allow for landscaping and there will also generally be 5 metres of open field space between security fencing and solar panels throughout the whole site and a similar distance between the site fenceline and existing boundaries (as a minimum). There will also be new areas of wild meadow planting, new trees and hedgerows will be planted, and there will be farm-style tracks between the fields of panels.



East Aberthaw Solar Construction, operation and decommissioning



Construction

A Construction Traffic Method Statement will be developed as part of the planning application. This will provide details of proposed access arrangements, the anticipated programme, construction vehicle numbers and type, construction worker numbers and the proposed construction hours.

A Construction Environmental Management Plan (CEMP) will also be prepared prior to development works commencing on site.

These documents will be subject to consultation and agreement with relevant consultees and the local authority.

Ongoing operation

Given the nature of the proposed scheme, there will not be a significant amount of traffic required during the operational lifetime of the project. Solar farms generally require little maintenance (when compared to other energy generating facilities) and so traffic to the site will consist of a single vehicle, 3-4 times per week on average.

Decommissioning

The project lifetime is 40 years, meaning that we would be looking at decommissioning the site in the 2060s. Whilst the exact details of the process will be agreed closer to the time, the decommissioning activity will likely mirror the construction process in duration and activity.

The site will continue to be designated as 'Agricultural Land' meaning that the inclusion of solar panels for the lifetime of the project will not change the classification of the land. Agricultural practices (such as sheep grazing) can continue through the lifetime of the project.





East Aberthaw Solar Community Considerations





Welsh Government targets

The Welsh Government has acknowledged that there is a climate emergency and has committed to decarbonising and tackling the causes of climate change over the coming years. Generating renewable energy is a key part of that commitment and the Welsh Government has set ambitious targets for the generation of renewable energy, including for 70% of electricity consumption to be generated from renewable energy by 2030.

Through the development and delivery of East Aberthaw Solar, we hope to provide a significant contribution towards these targets.

Security of supply

Solar power generated in the UK reduces the need to import electricity from abroad. This not only creates energy industry jobs in the UK, but makes our energy supply and prices more secure, since foreign energy can vary in price as supply and demand changes.

Benefits



Biodiversity

It is important that the site is improved for nature and shows a biodiversity net gain, thus helping to protect and improve new and existing habitat. We are therefore creating a species rich haven for wildlife.



Sheep grazing

We work in partnership with the landowner or local shepherds to provide a unique and innovative space for sheep to graze amongst the solar panels which provide protection in both summer and winter.



Beehives

We encourage the siting of beehives within the solar farm, which not only helps to pollinate nearby crops and plants but provides a secure environment with readily available food sources. The hives are tended by trained local beekeepers to ensure the health and welfare of the bees.



Planting

Our sites are designed around existing hedgerows and trees. We look to enhance the site with additional planting of native species of hedgerows, trees, pasture-mix grasses and wildflowers.



East Aberthaw Solar Consultation process and next steps

This project presents a significant opportunity to deliver clean, renewable energy. It will offer a valuable contribution to the region's drive to decarbonise and reduce emissions, as well as helping reduce the UK's reliance on foreign fuel imports.

Consultation

The project is committed to ongoing public engagement and we will be taking a proactive role in undertaking pre-application consultation on the proposed project. We will be undertaking two phases of consultation on the proposals, providing multiple opportunities to provide feedback on the plans.

Informal consultation

Low Carbon would like the opportunity to understand the views of the local community on the early draft proposals so that further refinement and development of a 'Preferred Design' can take place.

The project website provides an overview of the draft project proposals, key information, links to materials and opportunities to comment directly.

Feedback can also be provided in a number of ways including via email, freepost, freephone, or by completing a form in person at an event.

The closing date for comments is Monday 27th June 2022.

Let us know your views

If you have any further questions or comments about the proposals or the consultation process currently underway, you can get in touch with us and provide your feedback via:



Project website

Project documents and plans detailing the nature and location of the project are available at https://east-aberthaw-solar.co.uk



Email

Written feedback can be provided utilising the project email address – info@east-aberthaw-solar.co.uk



Feedback forms

Available at the consultation event and online via the project website. Alternatively, get in touch to request a hard copy and we will post it to you.



Freepost

Written feedback can be provided utilising the project freepost address FREEPOST LOW CARBON UK

SOLAR DEVELOPMENT (no further address or stamp required)



Freephone

0800 151 0220 (Monday to Friday 9am to 5pm excluding public holidays)

Timeline:

Early 2022
Pre-planning
and project
inception

June 2022
Informal
community
consultation

Autumn 2022
Statutory
consultation on
draft application

Winter 2022
Application submission

About Low Carbon

Low Carbon is a privately owned UK company founded in 2011. We are committed to making a positive and significant impact on climate change by investing in large-scale

renewable energy projects such as East Aberthaw Solar.

Further information can be found at: www.lowcarbon.com