Trydan Gwyrdd Cymru

Fferm Solar Larnog

Mynediad

1. Mynediad da i'r Safle o'r briffordd leol.
2. Cyd-weithio'n agos gyda Chyngor Bro Morgannwg i gydnabod cyfleoedd i wella rhwydwaith Hawliau Tramwy Cyhoeddus.

Amaethyddiaeth

3. Caeau yn cadw at ddefnydd amaethyddol.
4. Gall da byw bori o gwmpas ac o dan paneli solar, gan amrywio arferion ffermio ac iechyd y pridd.

Bioamrywiaeth

5. Mae'r dyluniad yn osgoi Safleoedd o Bwysigrwydd er Cadwraeth Natur (SBCN).
6. Cyd-weithiwn gyda Chyngor Bro Morgannwg, Ymddiriedolaeth Bywyd Gwyllt De a Gorllewin Cymru a Chyfoeth Naturiol Cymru i wella bioamrywiaeth o gwmpas y safle.
7. Bydd gwrychoedd a choridorau bywyd gwyllt yn gwella cysylltedd â gweddill y Safle a Gwarchodfa Natur Trwyn Larnog.
8. Lleoliad banciau gwenyn.
9. 'Pentyrrau cynefinoedd' - pentyrrau o ddeunyddiau naturiol sy'n darparu lloches a bwyd i ymlusgiaid a mamaliaid.
10. 'Coridorau bywyd gwyllt': clustog tua 10m rhwng seilwaith ac ymyl y cae, lle gallwn blannu blodau gwyllt.
11. Ein nod yw plannu rhywogaethau brodorol o wrychoedd a choed, fel cyll, draenen wen, draenen ddu, gwyddfid, cwyros, celyn, derw, sycamorwydd, masarn, bedw arian, ac afal sur.
12. Mae cyfleoedd i ddatblygu gwrychoedd presennol i ddenu bywyd gwyllt, yn enwedig pathewod ac ystlumod.
13. Blychau ystlumod ac adar ar goed a seilwaith.
14. Gofod rhwng eiddo yn creu cyfleoedd i ehangu a gwella cynefinoedd.
15. Mae ardaloedd o goetir wedi cael eu hosgoi ar draws y safle, gan gynnwys coetir sydd wedi'i ddynodi â Gorchmynion Diogelu Coed.

Hydroleg

16. Bydd Systemau Draenio Cynaliadwy yn cael eu hymgorffori.

Tirwedd a gweledol

17. Gofod rhwng paneli solar a llwybrau troed, megis Llwybr Arfordir Cymru yn cynnal natur agored yr amgylchedd leol.
18. Dim paneli solar yma, er mwyn osgoi y posibilrwydd o nodweddion archeolegol.
19. Bydd goleuo yn sensitif.

Llynnoedd a Pharc Gwledig Cosmeston / *Cosmeston Lakes and Country Park*

Llwybr Teithio Egnïol / *Active Travel Route (Sully-Cosmeston)*

Datblygiad Tai Cosmeston Uchaf (arfaethedig) / *Upper Cosmeston Housing Development (proposed)*

Ysgol Llyn Derw (dan adeiladu) / *Llyn Derw School (under construction)*

Ranny Bay

Lavernock Road

Fort Road

Lavernock Point caravan park

Safle o Ddiddordeb Gwyddonol Arbennig Arfordir Penarth / *Penarth Coast Site of Special Scientific Interest*

Hopkins Mount

The Bay caravan park

Gwarchodfa Natur Pen Larnog / *Lavernock Head Nature Reserve*

St Mary's Well Bay

St Mary's Well Bay Road

Sully Island

Allwedd / Legend

- Ffin y safle / *Site Boundary*
- Ardal Datblygu Arfaethedig / *Proposed Development Area*
- Datblygiad Solar Arfaethedig / *Proposed Solar Development*
- Datblygiad Solar Arfaethedig neu Gyfansoddyn Is-orsaf (gan gynnwys Storio Batri) / *Proposed Solar Development or Substation Compound (including Battery Storage)*
- Llwybr Teithio Llesol Sili-Cosmeston / *Sully-Cosmeston Active Travel Route*
- Hawliau Tramwy Cyhoeddus / *Public Rights of Way*
- Llwybr Arfordir Cymru / *Wales Coastal Path*
- Coed, gwrychoedd ac ardaloedd coediog / *Trees, hedgerows, and wood areas*
- Adeiladau / *Buildings*

Delweddau/Images: © Hawlfraint y Goron / Crown copyright Cymru Wales. © Getty Images

Ynni i ffynnu. **Power to prosper.**

Larnog Solar Farm

Access

1. Good Site access from local highway.
2. Work closely with the Vale of Glamorgan Council to identify opportunities for improvements to the PRoW network.

Agriculture

3. Fields retained for agricultural use.
4. Animals can graze under and around solar panels, diversifying farming practices and improving soil health.

Biodiversity

5. Sites of Importance for Nature Conservation (SINC) are avoided.
6. Work with the Vale of Glamorgan Council, the Wildlife Trust of South and West Wales and Natural Resources Wales to improve biodiversity across the site.
7. Hedgerows and wildlife corridors to connect across the Site and with Lavernock Head Nature Reserve.
8. Potential bee banks.
9. 'Habitat piles' – heaps of natural materials providing shelter and food for reptiles and mammals.
10. 'Wildlife corridors': a 10m buffer between infrastructure and edge of the field, where we can plant wildflower.
11. We aim to plant native species of hedgerow and trees, such as hazel, hawthorn, blackthorn, honeysuckle, dogwood, holly, oak, sycamore, maple, silver birch, and crab apple.
12. We plan to improve existing hedgerows to attract wildlife, particularly dormice and bats.
13. Bat and bird boxes on trees and infrastructure.
14. Excluded to increase separation from properties. Potential to create habitats.
15. Areas of woodland have been avoided across the site, including woodland designated with Tree Preservation Orders.

Hydrology

16. Sustainable Drainage Systems (SuDS) will be implemented.

Landscape and visual

17. Solar panels set back from Wales Coastal Path and footpaths to maintain openness.
18. Excluded to increase separation from properties and avoid potential archaeological features.
19. Substation lighting will be wildlife friendly.

www.trydangwyrddcymru.wales
croeso@trydangwyrddcymru.wales

Mae Trydan Gwyrdd Cymru yn eiddo i **Lywodraeth Cymru**
Trydan Gwyrdd Cymru is owned by the **Welsh Government**

Trydan Gwyrdd Cymru

Ynni i ffynnu. **Power to prosper.**

© alexandrumagurean

Croeso – welcome to our event for Larnog Solar Farm

Thank you for coming to find out about our early-stage proposals

We're here to discuss the project with you. We are happy to chat to help you understand our proposed plans.

We'd appreciate if you could take time to look at the information and the landscape concept plan.

Your feedback is very important. It helps shape the project as it develops and as we consider options and opportunities to design the best project for the local area.

About **Trydan Gwyrdd Cymru**

Trydan is the only energy company working for the people of Wales.

We're a renewable energy company owned by the Welsh Government.

We operate in the interests of Wales, with all profits from our projects reinvested in Welsh communities and to benefit Wales.

Our **mission** is to:

- Give Wales the power to prosper by unlocking our renewable energy potential, with a focus on developing renewable energy projects primarily within the Welsh Government Estate. We aim to get people and nature working together to build a brighter, cleaner future.
- Deliver benefits to our society, environment, economy and everyone living and working in Wales today.
- Deliver for future generations and secure long-term benefits for Wales.

Our **goals** are to:

- Develop 1 GW of new renewable energy generation capacity in Wales by 2040.
- Be a model developer, working with communities and the wider industry.
- Advise and work with the public sector, to realise locally owned renewable energy generation.

Let's work together, to deliver power to prosper.

You can give your view on the project by:

- Completing a feedback form today (copies are available at this exhibition).
- Completing a feedback form on the project website before **5pm on Friday 23 January 2026.**

Scan the QR code

www.trydanlarnog.cymru | croeso@trydanlarnog.wales | 029 2003 8780

www.trydangwyrddcymru.wales
croeso@trydangwyrddcymru.wales

Mae Trydan Gwyrdd Cymru yn eiddo i **Lywodraeth Cymru**
Trydan Gwyrdd Cymru is owned by the **Welsh Government**

Trydan Gwyrdd Cymru

Ynni i ffynnu. Power to prosper.

Introducing Larnog Solar Farm

The project is located on Welsh Government owned land at Lavernock. It is used for agriculture, and the area is enjoyed by walkers along the Wales Coastal Path and other Public Rights of Way.

We are proposing:

- Up to 35 MW of clean electricity, enough to power the equivalent electricity needs of approximately **13,800 average Welsh homes***
- Ground mounted solar photovoltaic (PV) panels
- Battery Energy Storage System (BESS)
- An onsite substation and other associated infrastructure
- Profits back to the public purse
- Habitat improvements
- Local community involvement and benefits
- Clean electricity - helping to secure our energy future and combating climate change

Why do we need solar energy?

Energy security

Most of the gas we burn in Wales' two main gas powerplants is imported. Having our own, reliable energy supply will reduce our vulnerability to global fossil fuel markets and global events.

Solar projects are usually quicker to develop, construct and connect to the grid, making them an important part of the energy mix.

Solar panel systems have few moving parts, so they are generally low maintenance, requiring only occasional cleaning and checks. It's a tried and tested technology, known to be reliable and effective.

The UK government's clean power 2030 target for solar is to reach a total installed capacity of 45-47 gigawatts (GW), which is a significant increase from the 2025 capacity of 18.1 GW.

Changing demand

By 2035, many more aspects of our lives, including heating our homes and workplaces, running cars, buses and trains, and industrial processes, will be powered by electricity, rather than from burning fossil-fuels, which produce harmful greenhouse gas emissions. It is predicted that Welsh demand for electricity will triple by 2050.

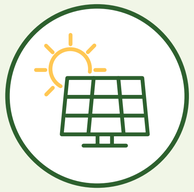
Climate change

Summer 2025 was the warmest summer on record in the UK[1]. Record-breaking temperatures and extreme weather events are becoming more frequent, which have devastating effects for the planet. The Met Office states one of the main causes of the changing weather is human-induced climate change caused by greenhouse gases, such as CO_2, which is released into the atmosphere when we burn fossil fuel. Reducing CO_2 emissions is essential for reducing the severity of climate change.

Welsh Government targets

The Welsh Government aims to meet 100% of Welsh electricity consumption from renewable sources by 2035. Larnog Solar Farm would directly contribute to these targets.

[1] Met Office. https://www.metoffice.gov.uk/about-us/news-and-media/media-centre/weather-and-climate-news/2025/summer-2025-is-the-warmest-on-record-for-the-uk



Indicative timeline

This indicative timeline is intended to provide an overview of the careful process Trydan will follow, with the aim of shaping the best possible project. By this we mean, a project of the best design, in the right place, to deliver long-lasting benefits for the local area and for Wales.