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KNOCKNAIR RENEWABLE ENERGY PARK

WELCOME TO OUR EXHIBITION

Renewco Power is bringing forward a new solar energy project near Devol Moor in Inverclyde, Scotland. The project is called Knocknair Renewable Energy Park and will include up to 25MW of Solar PV panels and up to 24.9MW of Battery Energy Storage System (BESS).

We are in the early stages of development, and the purpose of today is to gather feedback from local residents on the indicative proposals. The feedback collated during this initial consultation period, will be used to help shape and inform our proposals. Once all the feedback has been gathered, we will build that into the design where possible and then return to show you the updated plans in a few months.

WHO IS RENEWCO POWER?

Renewco Power is a renewable energy developer focused on developing utility-scale wind, solar, and energy storage projects across the UK. Formed of a highly experienced development team, who combined have delivered over 3GW of clean energy projects throughout the UK. The team combines commercial, technical, and operational expertise across the clean energy and environmental sectors. Renewco Power believe that supporting the journey to net zero, whilst building strong and long lasting relationships with local communities, should be at the heart of everything we do.

Scan QR code to access the project website





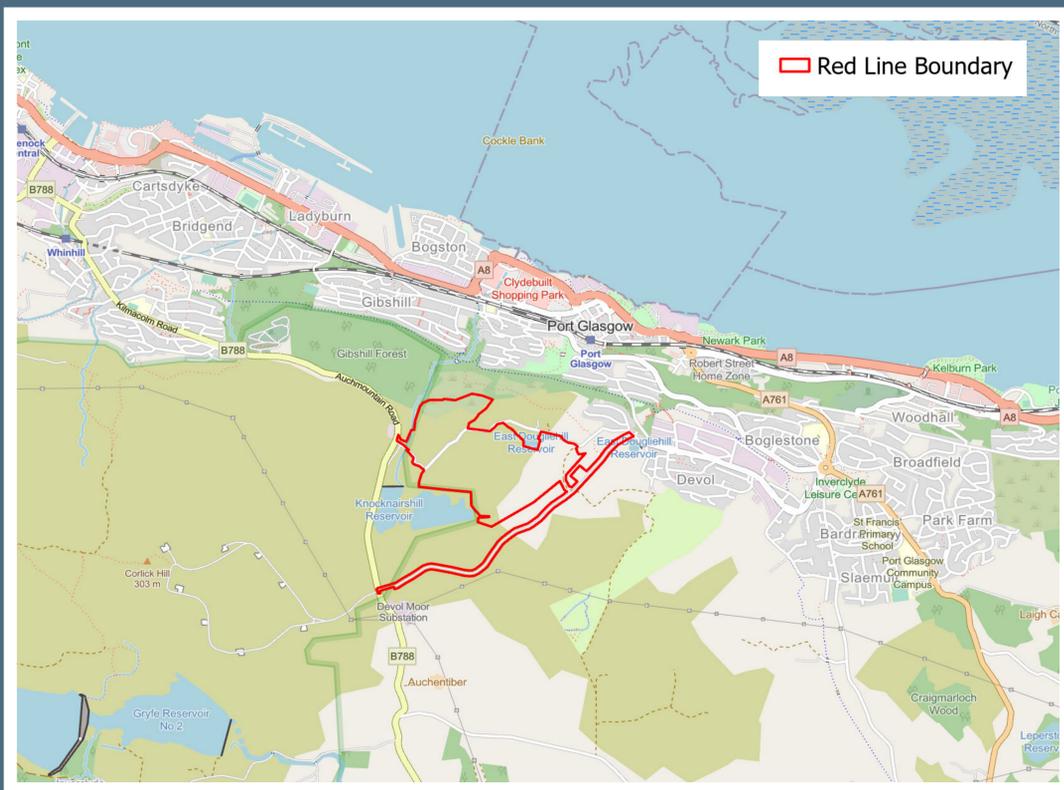
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THE DEVELOPMENT SITE

LOCATION

The Knocknair Renewable Energy Park is located just south of Dougliehill Road in Inverclyde, located 1.5km South East of Greenock and 0.5km South of Port Glasgow, near Devol Moor.



A formal EIA Screening Request was submitted to Inverclyde Council in December 2024. The EIA Screening Response was then received in February 2025, confirming an Environmental Impact Assessment (EIA) was not required. Instead, it is proposed to support any future planning application with a range of technical environmental assessments covering the following:

- Landscape & Visual;
- Noise;
- Archaeology & Heritage;
- Water Environment;
- Flood Risk & Surface Water Management;
- Soils;
- Glint & Glare;
- Ecology;
- Transport;
- Battery Safety; and
- Construction Environmental Management Plan.

This environmental assessment work is underway and will feed into the final project design.





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WHY IS THIS PROJECT NEEDED?

The Scottish Government has set targets to reduce Scotland's emissions of all greenhouse gases to net zero by 2045 at the latest. To achieve this, significant additional renewable energy capacity, over and above what is produced today, will be needed to facilitate the decarbonisation of transport and heating as Scotland transitions to net zero. The National Planning Framework 4 explicitly aims to encourage, promote and facilitate all forms of renewable energy development, including solar arrays and battery storage.

HOW DOES A SOLAR PANEL WORK?

Solar technologies capture solar rays from the sun and turn it into useful forms of energy. Photovoltaic (PV) panels comprise several PV cells (which typically produce 1-2 watts of power each) with a whole panel typically producing 250-700 watts depending on the make and model. These PV cells are made of different semiconductor materials, such as silicone, and are sandwiched between protective materials in a combination of glass and/or plastics.

When a photon of light from the sun strikes the semiconductor material, it displaces charged particles known as electrons and creates an electrical current. This Direct Current (DC) electricity is then able to be extracted via conductive metal contacts and converted to Alternating Current (AC) electricity via inverters for transmission via the electricity network.

WHAT WORK HAS BEEN DONE SO FAR?

Over the last 12 months, a number of surveys were undertaken to inform the initial design. This includes investigations into hydrology, ecology, soils and landscape and visual. This process also included developing constraints mapping using existing data and the survey data, which highlighted areas of higher sensitivity, which should be avoided from development. This process has allowed for the potential environmental impacts of the development to be reduced.

This early site assessment work also enabled the opportunity to start considering enhancement opportunities on site, including: areas around watercourses/waterbodies; potential planting areas; and what native species would be appropriate.

Through early constraints mapping and site specific design, these assessments have allowed us to consider a targeted set of measures to assess any potential environmental impacts.





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WHAT IS BEING PROPOSED?

Renewco is planning to submit a planning application featuring approximately 25MW of solar PV panels, as well as up to a 24.9MW Battery Energy Storage System (BESS) facility, located 1.5km South East of Greenock and 0.5km South of Port Glasgow, near Devol Moor.

THE PROJECT WOULD:

- Generate approximately 25GWh clean renewable electricity through solar panels per year;
- Comprise of circa 700 solar frames arranged in rows with gaps to ensure limited shading. The top of the panels would be raised off the ground and would face south;
- The project may be secured by secure deer fencing in keeping with the setting and CCTV cameras around the perimeter;
- Include containerised battery units. The battery units would be located on hardstanding, secured with fencing and have safety protection equipment installed;
- Include access tracks, access junctions and drainage;
- Onsite substation and electrical equipment;
- Include underground cable route to connect the equipment and export the power; and
- Include biodiversity enhancements within the design, which will have positive/beneficial effects for various wildlife species.

Planning permission will be sought for a 40-year period. On reaching the end of its operational life, the proposed project will be fully decommissioned, and the site restored to its original state. The final layout will be determined following community feedback, site surveys and a design iteration process which is currently underway. We expect the construction traffic to take the existing access track for the Inverclyde windfarm that runs off at the beginning of Dougliehill Road, east of Dougliehill Terrace.

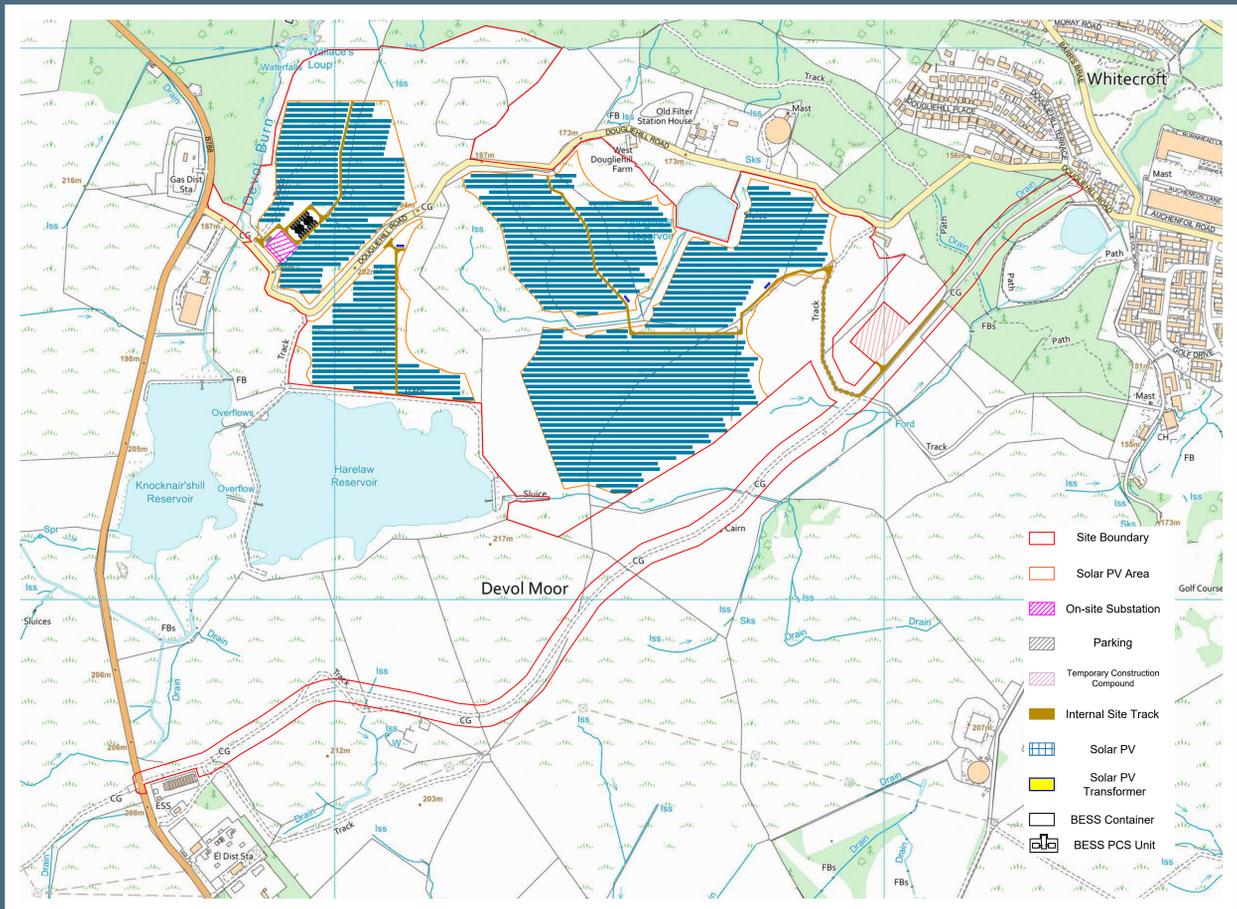




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WHY THIS LOCATION?



Following extensive site search, this location was identified for development due to:

- Its close proximity to Devol Moor substation, enabling a short and efficient cable route;
- The natural screening present in the form of the slope of the hill on high ground; and
- Its location on lower grade agricultural land, not suitable for food production.

Natural screening such as the growing of trees and foliage is being proposed as part of the plans to reduce any visual disturbance.

The project has been developed to avoid the environmental sensitivities of the area, to ensure that there is minimal interference with the local wildlife and plantation.





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SOCIAL ECONOMIC & ENVIRONMENTAL BENEFITS OF THE PROPOSALS

The proposals will deliver various other benefits to the local and wider community, including but not limited to the following:

- A significant investment in the local economy;
- Opportunities for local businesses to support during construction;
- Direct inward investment to local retail and accommodation businesses during construction;
- Provide enough generating capacity to power the equivalent of 7,500 UK homes all year round;
- Supply and storage of intermittent renewable energy for use during periods of peak demand;
- Allow the use of pre-generated renewable energy and reduce reliance on imported fossil fuels; and
- Provision of ecological enhancement including but not limited to hedgerow infilling and bat/bird boxes.

Renewco Power is committed to working with the community to develop a community benefit package. At this time we would welcome thoughts on how this should look and what are the best places to focus this benefit on.

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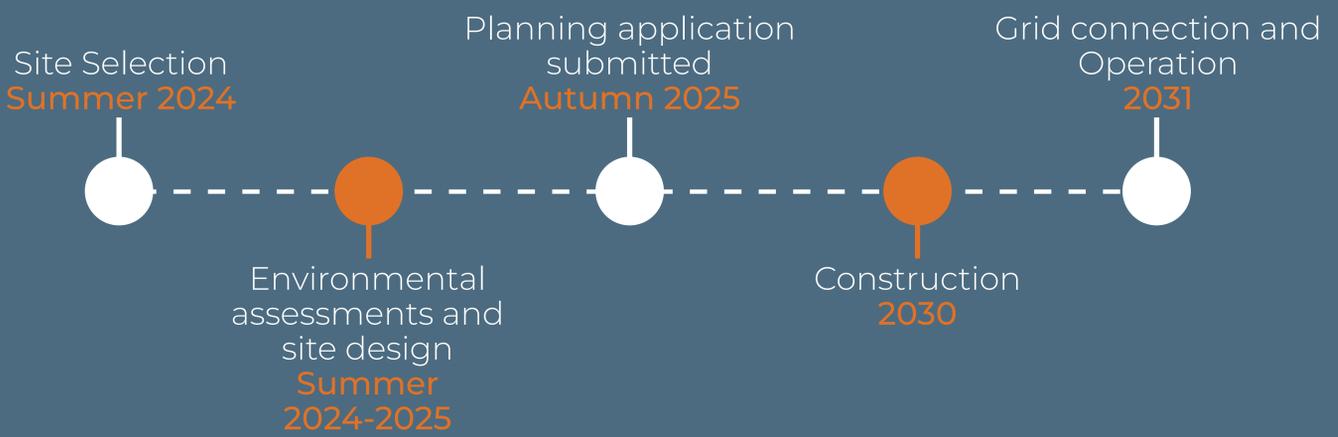


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WHAT HAPPENS NEXT?

After today and over the next few weeks, Renewco Power will consider all comments received at this consultation and use these to inform the project design where possible. Once we have completed all technical and environmental assessments, we will be in a position to share a more detailed design. At that point, we will again consult these plans, prior to submitting a planning application later this year. An indicative timeline is set out below.



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GIVING YOUR FEEDBACK

We would like to invite local residents to use the comment sheets provided, to give us your feedback on our proposals, and to make suggestions. All responses from today's event will be carefully considered, and we welcome all feedback. You can submit feedback with one of the forms today, or on our website.



Scan QR code to access the project website



YOU CAN ALSO SUBMIT FEEDBACK TO:

C/O
CAVENDISH CONSULTING
1 WEST REGENT STREET
GLASGOW
G2 1RW

CONTACT THE PROJECT TEAM:

KNOCKNAIR@RENEWCOPOWER.COM
WWW.RENEWCOPOWER.COM
0800 0660 8943

The deadline for submission is 26th May.

A follow-up consultation event is planned for later this year, to illustrate how we have responded to feedback from residents received today. Further details of this event will be shared nearer the time.

