

Welcome

Edgeley Green Power is a specialist energy company which aims to become a significant supplier of clean renewable energy in the UK.

We are planning to build a renewable electricity generating facility at Shoreham Port. This exhibition sets out our proposals.

We are seeking the views of local residents and other stakeholders before submitting our planning application and we are keen to find out what you think about the project.

Public consultation

Edgeley Green Power's proposal is to develop a renewable electricity power generating facility on a brownfield site on Fishersgate Terminal – an established industrial and power generating area of Shoreham Port, near Fishersgate and Southwick. The proposed site is approximately one acre, between Shoreham Power Station and Parker Steel, on the south side of the port. The planning for our project falls under the jurisdiction of Adur District Council.



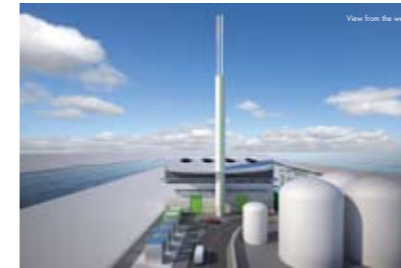
Above: View from the south of the proposed development site. A 3D model has been dropped in to illustrate the size and position of the renewable energy facility.

Right: View from the north of the proposed development site. Far right: Map with the position of our proposed development and other existing buildings highlighted.





What it could look like



The curved roof is inspired by the sea, imitating the silhouette of a wave.

The striking building design takes inspiration from both its coastal and industrial surroundings. The curved roof is inspired by the sea, imitating the silhouette of a wave, and mirroring the curved roofs of the neighbouring power station buildings.

The aerodynamic roof form is also designed to conceal outdoor plant and to draw in and release air, naturally and sustainably ventilating the radiators positioned on the concealed flat roof underneath used to cool the engines.

Positioning

The site is set lower than the coastal Wellington Road on the south side of the canal but the building has been further scaled down to a maximum height of 19m and by positioning it side on, so the main façade of the building is facing west rather than north towards nearby houses. The development is significantly smaller than Shoreham Power Station and the pending Parker Steel development.

Landscaping

The surrounding area is mainly industrial so there is limited opportunity for landscaping, however we aim to connect the facility to its natural surroundings. Areas of the site are to be set aside for vegetated shingle, on which coastal grasses and other plants will grow.



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Project description

The overall proposed development is made up of:

- A 38m long x 20m wide x 19m high engine hall which will house the power generating engines and alternators
- A chimney (stack) located next to the engine hall with a height anticipated to be less than 65m, this is significantly lower than the 105m Shoreham Power Station chimney next door
- A reception and administration building
- Four main storage tanks which will be painted using colours to blend in with the local environment. Three of these will be 11.8m wide and 16m high, with one smaller tank at 7.8m wide and 10m high
- Two small fuel tanks, measuring 1 x 4 x 6m and 1 x 6 x 9m
- A small boiler house adjacent to the front of the engine house
- A substation which will house a control room for the transformer operating equipment
- Transformers will be located on site to step up electricity from 11KVA to 33KVA for distribution via the Local Distribution Network.

Our fuel

We will use a combination of feedstocks suitable for renewable power generation sourced from a number of suppliers across the globe. Sustainability is our number one priority.

The main source of fuel we will use to power our engines is tall oil, produced during the wood pulping of mainly fast growing coniferous trees in Scandinavia and Canada. It is a component used in adhesive, ink and rubber manufacturing processes. The by product of tall oil is used in cement and asphalt.

Edgeley Green Power will not use oils for power generation which are fit for human consumption.

The other fuels we plan to use are:

- Used cooking oil from the UK and the rest of Europe, treated and refined to condition the oils to the correct quality for use in our engines
- Crude and refined vegetable salvage oils which are unfit for human or animal consumption, offered on an ad hoc basis by insurers for a variety of reasons such as a result of cross contamination with other cargoes in vessels or land tanks, incorrect previous cargo tank usage, incorrect shipping documentation, or as a result of marine incidents.

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How the proposed facility will work

By locating our proposed facilities at port locations we are able to transport our fuel by ship directly to site in bulk, therefore there will be no increased HGV traffic locally.

Even our engines used to generate our electricity are recycled – they started life designed to run on heavy fuel oil but are now being reconditioned so they can run on biofuel instead.

The electricity is then transferred through cables to transformers on our site which makes it suitable to transfer into the Local Distribution Network which supplies electricity to the local area.

Safety and security

We take safety very seriously. The proposed facility will be designed, built and operated to recognised national and international standards and will comply with all applicable legislation and regulations.

Economic benefits

Both temporary and permanent employment will be created as a result of the proposed development and Edgeley Green Power is looking to recruit locally where possible to take advantage of the skills of the labour force in the local area. At least 20 permanent jobs will be created, including an apprenticeship scheme for school leavers.

Developments, like the one we are proposing, have been shown to boost the economy locally by benefiting other businesses within the vicinity. As well as helping to create jobs, we also recognise the benefits such a development can bring to existing local businesses.

Environmental impacts

As a renewable energy company we care about the environment and will take all necessary steps to minimise any adverse impact on the environment, operating within parameters set by the Environment Agency (EA).

We aim to minimise our emissions by using a selective catalytic reduction process to treat and neutralise any exhaust gases. An air quality assessment is currently being undertaken to ensure that our proposed development will not adversely affect air quality.

A noise assessment is also being prepared to ensure our proposed facility will not adversely affect noise levels in the surrounding neighbourhood.

The air quality and noise reports will be submitted with our planning application.

Frequently asked questions

Q: Will what comes out of the chimney affect local houses?

A: We aim to minimise our emissions by using proven technology and the appropriate control processes to manage and treat emissions. The height of the chimney is currently being designed in consultation with regulators such as the Environment Agency to ensure we meet air quality standards. Our combustion process is also being designed to incorporate other extra measures to control air pollutants, such as a selective catalytic reduction process (SCR).

The EA will not allow our proposed site to operate without an environmental permit, and to obtain this permit we must demonstrate how our design will meet air quality standards. This is in addition to all the other requirements we will fulfill through the planning process.

How to get involved

Please complete our feedback questionnaire or send your comments to: info@edgeleygreenpower.com

So we are able to take your comments into account before we finalise our planning application, please get your feedback to us no later than **7 October**.

If you want to find out more and stay up to date on progress following our public consultation, please visit:

edgeleygreenpowershoreham.co.uk

What happens next?

We will submit it to Adur District Council later this year. Our application will be subject to a usual period of statutory public consultation, undertaken by Adur District Council.

Q: Will it smell?

A: Where necessary the fuel we use will be deodorised before it arrives at our site and it will be adequately handled and stored, then combusted in our engines at high temperatures. The temperature of combustion is so high that even our exhaust gases will be around 400 degrees centigrade. As described above great care is being taken to ensure our chimney is the correct height. Its height is another way we can ensure odor is suitably controlled.

Q: When your engines are operating will there be any vibration felt in houses opposite?

A: Our engines will be mounted on foundation blocks with anti vibration mounts fitted, which we believe will control any vibration.



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