



Fact Sheet 1

Introduction to the Rampion 2 Public Consultation





Contents:

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What is a wind farm?

Climate change, energy targets and the need
for wind power

What difference could Rampion 2 make?

Scope of the consultation

Have your say

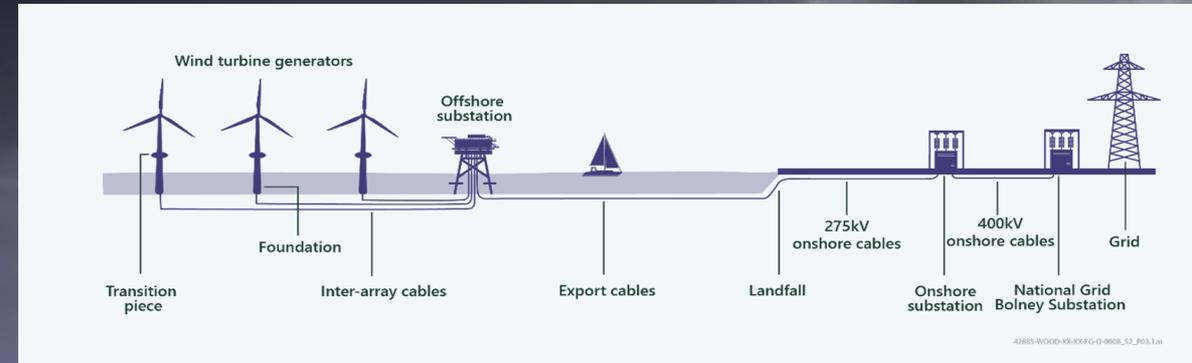
Next steps



What is a wind farm?

A wind farm project is made up of several major physical components:

- **Foundations** to support the wind turbines
- **Wind turbines** to generate the power
- **Inter-array cables** to connect power from the turbines to an offshore substation
- **Offshore substation(s)** to step up the voltage before transmission to shore
- **Offshore export cables** to take the power under the seabed, to shore
- **Landfall** - where the offshore cables come ashore to connect to the onshore cables
- **Onshore cable circuits** – to transport the power underground to the final connection point
- **An onshore substation** – stepping the power up to a high voltage to connect to the transmission grid or, 'electron motorway'



Every physical component is integral to a wind farm project and without any one of these the wind farm wouldn't work. Each individual component requires a different section of land or sea and each has unique engineering and environmental challenges.

If a project of the scale of Rampion 2 is to be successfully consented and built, the physical components must be collectively designed such that they work together as a unit, while being individually assessed to mitigate and minimise impacts on the environment and the community.

The first step in the development process is to understand hard or fixed constraints, which cannot be overcome. These constraints may restrict a particular project component to a specified location or may prevent a project component from being located in a particular local area. This allowed Areas of Search to be developed for the offshore and onshore project components.

The results of further technical and environmental surveys, coupled with engagement with key stakeholders, has allowed the refinement of initial proposals put forward in January, to now form our draft proposals for formal public consultation.

Climate change, energy targets and the need for wind power

The UK Government has formally declared a Climate Emergency.

UK Government target for offshore wind

40 Gigawatts (GW) of offshore wind capacity by the end of this decade. This equates to a quadrupling of offshore wind capacity from around 10GW in 2020, to 40GW by 2030.

Climate change

UN IPCC Climate Scientists say we have until the end of the decade to keep warming below 1.5°C above pre-industrial levels, to prevent catastrophic and irreversible impacts on climate change.

Securing our energy supplies

Around 5% of UK electricity is still generated by coal but this is going to be phased out in the next 2 – 3 years and requires clean and green energy to replace it.

Electric vehicles and hydrogen

A greener future for transport, aviation and heating, through advancements in battery technology and applications for hydrogen fuel are only carbon neutral if the electricity needed to charge batteries and generate hydrogen, comes from renewable energy sources.

Why off the Sussex coast?

There are 40 offshore wind farms around the UK. Only one of these is off the south coast – Rampion. Yet the south east of England is one of the most densely populated regions in Europe and therefore has a massive electricity demand, so it makes sense to generate the power where the demand centre is located.

Did you know?

Wind is now an essential renewable resource for powering our modern world with clean, green energy and the UK is the European and World leader in offshore wind generation.

- The UK is the windiest country in Europe
- Wind energy is the second largest power source in the UK, currently supplying over 20% of the UK's electricity, split roughly 50:50 between onshore and offshore wind farms
- With the larger scale of offshore wind and increased competition in the marketplace, the cost of offshore wind has halved in just the last 2 – 3 years
- In 2019, UK wind energy powered the equivalent of nearly 18 million (m) homes and reduced CO₂ emissions by nearly 29m tonnes, with 14m tonnes from offshore wind alone
- In 2020, UK wind power provided 40% of our electricity on one day and contributed to a record 67 days in a row of coal-free electricity generation
- The offshore wind industry aims to double jobs to over 27,000 and invest nearly £50billion in UK infrastructure by 2030.

Find out more about climate change, the history of electricity and wind energy technology, at our Rampion Visitor Centre www.rampionoffshore.com/visitor-centre

What difference could Rampion 2 make?

The existing Rampion project:

- Supplies clean, green electricity for the equivalent of almost **350,000 homes**, that's around half the homes in the whole of Sussex
- Saves around **600,000 tonnes of CO₂ every year**

Technological advancement

Wind turbine technology has rapidly advanced in recent years, producing much more power per unit, such that the power output for the scheme could be three times that of the operating Rampion project.

Rampion 2 could:

- Produce clean, green electricity for the equivalent of **over 1 million homes**
- Save around **1.8 million tonnes of CO₂ each year** in addition to the operating Rampion Wind Farm.

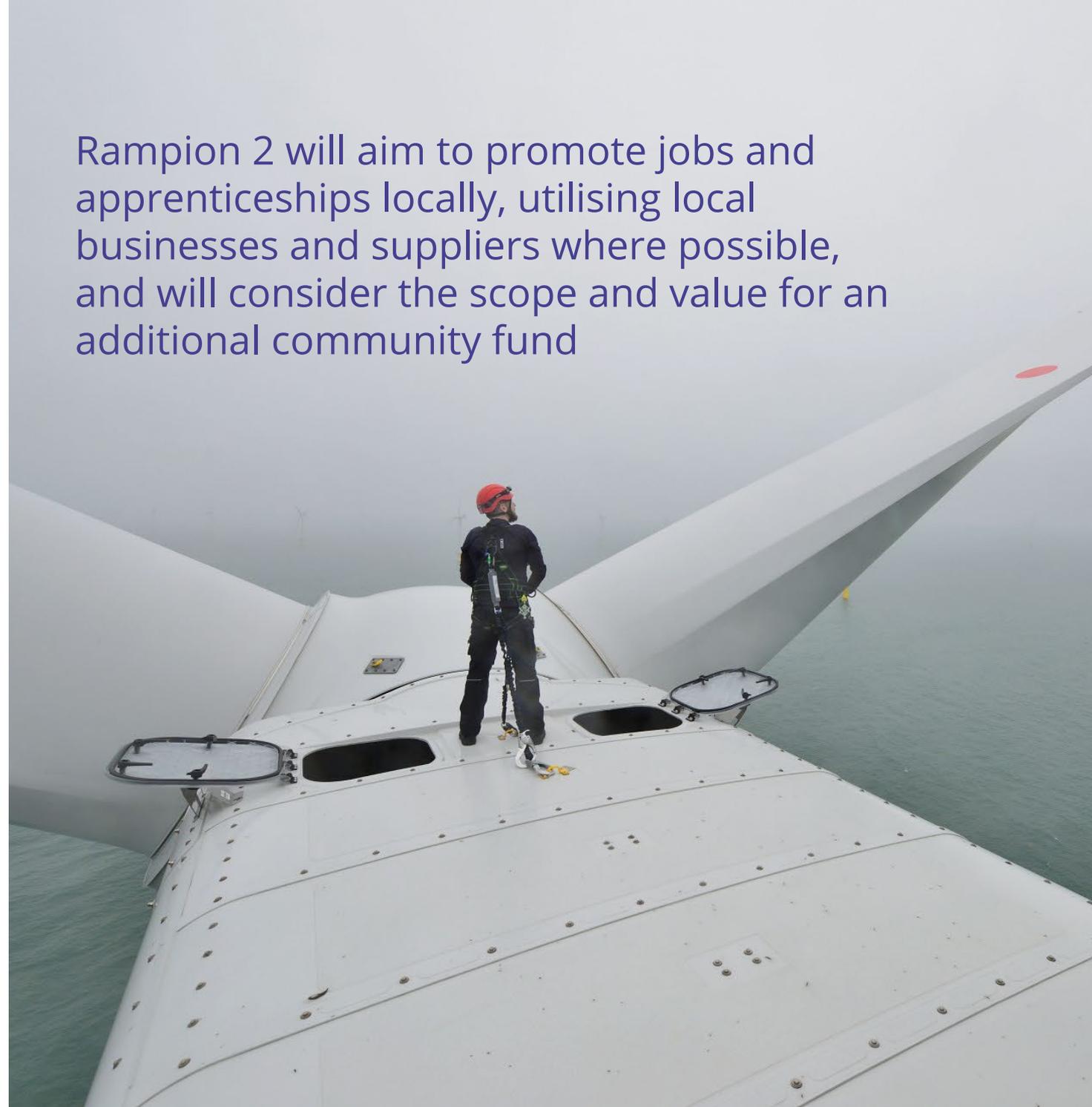


Rampion 2 is the only wind farm proposal off the UK's south coast and can make a significant contribution to tackle climate change and meet Government targets to quadruple offshore wind capacity by the end of the decade.

Rampion has already:

- Employed **65 full time, permanent staff** at the Operations Base in Newhaven Port
- Supported **8 students** on our graduate scheme and took on **8 apprentices** by 2019, some of whom are now fully qualified turbine technicians
- Acted as a catalyst for the **regeneration of Newhaven Port**
- Spent £1.6 million to support 114 community projects from our £3.1 million Rampion Fund, benefiting almost 1 million people across Sussex, with the remaining Fund available until 2027
- **Opened a Visitor Centre** on Brighton seafront, which is free for all, to tell the climate, energy and Rampion story in a fun and engaging way

Rampion 2 will aim to promote jobs and apprenticeships locally, utilising local businesses and suppliers where possible, and will consider the scope and value for an additional community fund



Scope of the consultation

The consultation has been designed to ensure that people have the opportunity to express their views and contribute to the evolving design of the Rampion 2 project.

This is the primary opportunity to provide your feedback on our draft proposals and associated environmental information, to be able to influence our final proposals which will be submitted to the Planning Inspectorate early next year.

We want to hear from you

In order to ensure the construction and operation of Rampion 2 minimises impacts on the environment and local communities, we have completed a Preliminary Environmental Impact Report (PEIR), which forms the basis of the proposals we are consulting on now.

We encourage anyone who has an interest in the project to give their views about how the Rampion 2 proposals may benefit or impact you. We would greatly appreciate your feedback on:

- our preliminary assessment of the onshore and offshore environmental, community and economic impacts and proposed mitigation measures to avoid or reduce impacts;
- our early thinking on building the project and the measures we plan to put in place to minimise the impacts of construction on local communities;
- the merits or disbenefits of substation and cable route alignment proposals where there are options being considered.

Have your say

We are keen to hear from you about the merits of the proposals or the relative merits of options, to help further shape our proposals, prior to us submitting a development consent application in early 2022.

Please complete our Consultation Response Form at rampion2.com/consultation.

The best way to give your feedback is by using the Consultation Response Form.

Contact us

Phone or email

Should you have any questions or points of clarification about the project or consultation, you can:

Email us at rampion2@rwe.com

Call us on our Freephone number **0800 2800 886**.

Join a public forum

Should you wish to listen to a presentation and ask questions to members of the Project Team, please visit rampion2.com/consultation/events

Consultation responses will also be accepted via email at rampion2@rwe.com or post to:

Rampion 2 – Consultation Response, Greenwood House, Westwood Way, Westwood Business Park, Coventry, CV4 8PB.

If replying via these channels, please be sure to clearly state that your communication is a consultation response, and provide your name, post code and email address.

We're committed to equality

If you or your organisation need assistance reading or understanding the consultation documents please contact us to discuss your requirements. Translation of key documents to other languages, large print, audio or braille format may be arranged on request.

Covid19 Restrictions

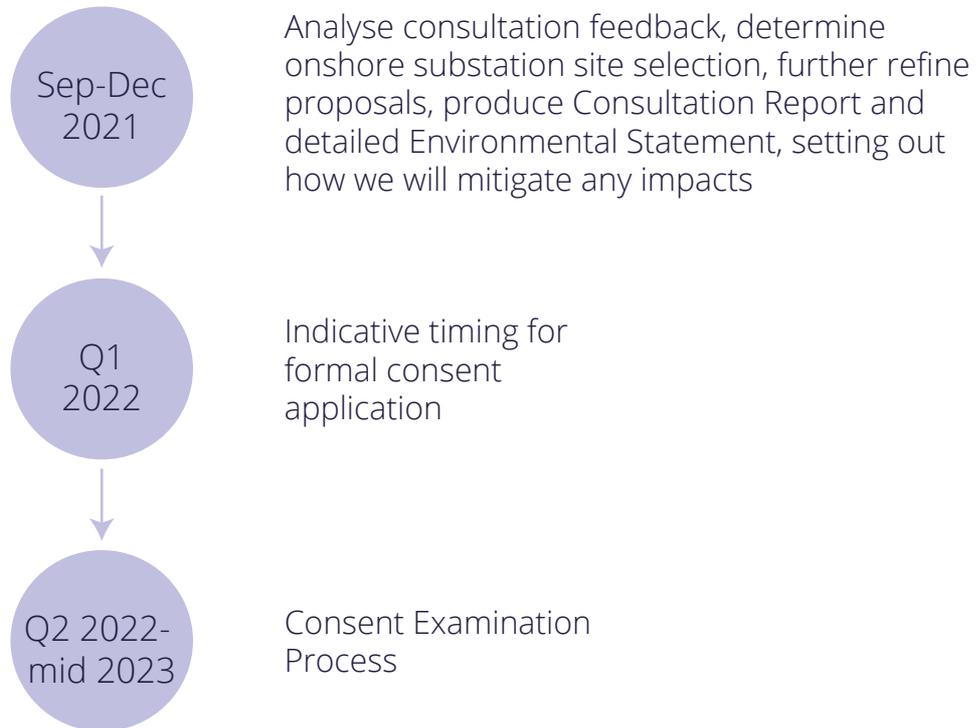
We are all working in unusual times and while we would much prefer to meet you face to face, we have had to close our Worthing Office since March 2020 and unfortunately, we are unable to hold public exhibitions as we did for the original Rampion project.

Meet the team

We would like to build on our existing relationships from the Rampion project, while also reaching new communities who weren't so involved the first time around, to become a long-term, good neighbour of the Sussex community.



Next steps



Should consent be awarded in 2023...

