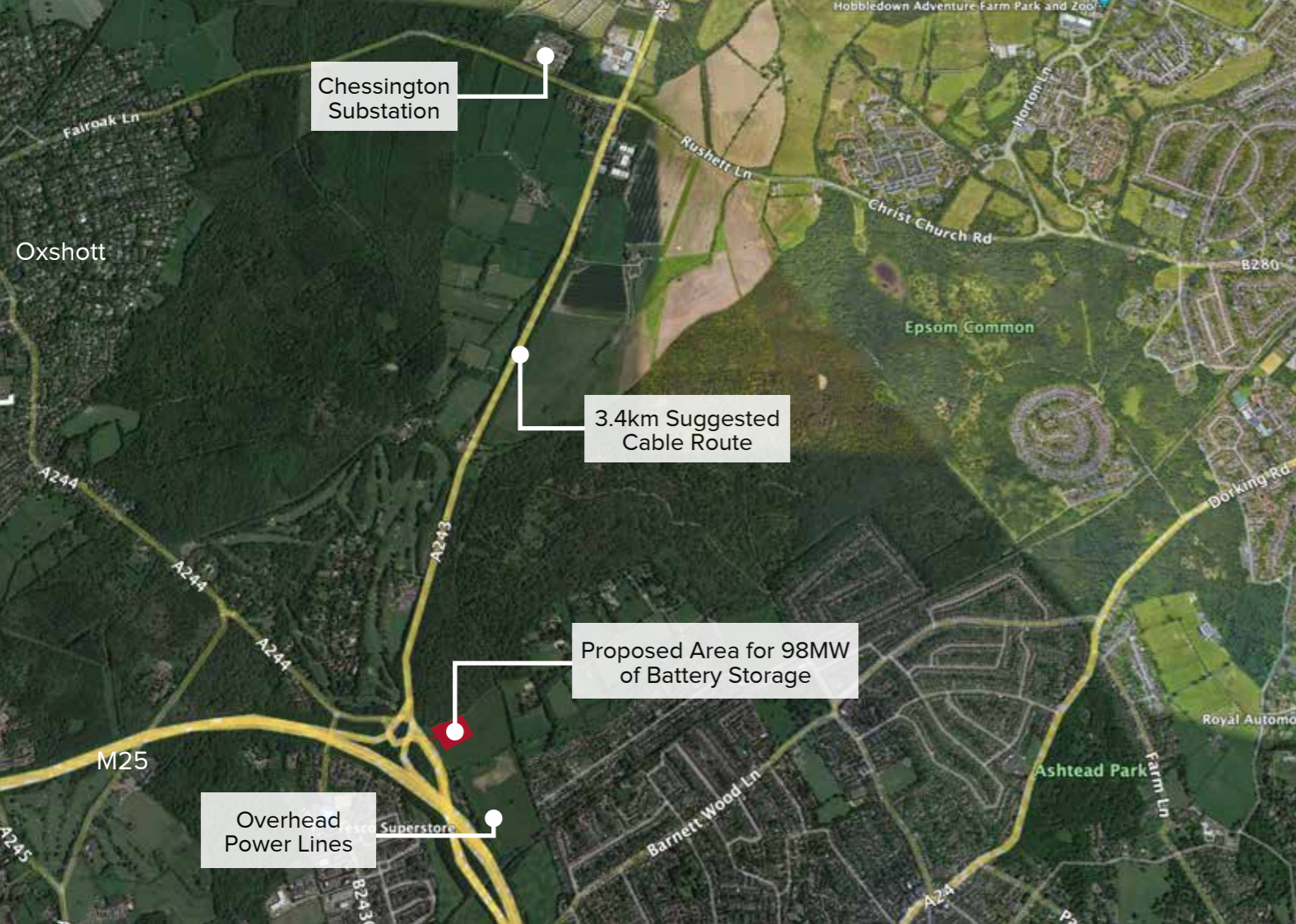


# Introducing Rye BESS by Bluestone Energy



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of scheme design

Invitation to public consultation event on **Monday 12 December**  
from **2pm to 7pm** at the Parish Hall, St George's Christian Centre,  
Barnett Wood Ln, Ashted, KT21 2DA.



## Introducing Bluestone Energy Rye BESS

Bluestone Energy is proposing to develop a Battery Energy Storage System (BESS) located on land to the east of M25 Junction 9 and the A243 southbound, Leatherhead.

This 98MW BESS facility will provide a backup supply to stabilise the National Grid via UK Power Network's main substation at Chessington.



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### Why Do We Need Battery Energy Storage Systems (BESS)?

The project is in an early stage, so we would like your views on the development proposals.

BESS allow renewable energy to be efficiently stored and supplied to the grid when it's needed. With BESS we can use renewable energy to power our homes and businesses when the wind stops blowing and the sun isn't shining.

BESS facilities store electricity when demand is low or there is over-supply and release it back to the grid when demand is high. Moreover, they can provide 'system security', supplying energy during electricity outages and thus minimising disruption and costs.



## The Site

The proposed development would be located on land owned by Merton College to the east of M25 Junction 9 and the A243 southbound, Leatherhead. The proposed location for the battery storage site is currently grassland.

The total site area is approximately 5 acres, however this area will be subject to environmental surveys and assessments which will be used to refine the design.

The development will include the construction of a battery storage compound within secure 2.4m high fencing. Within the fence perimeter, the battery storage containers, inverter units, load banks, transformers, DNO and customer control rooms and a customer switchroom and storage container will be installed.















Development will also require a new temporary access to be created for the construction and maintenance of the site.

Once operational, there will be minimal traffic generated by the proposals. The proposed development is temporary (40 years). The site will be restored to prior use once the proposed development has been decommissioned.

**LEGEND:**

- PROPOSED SITE
- DNO ACCESS
- MAINTENANCE ACCESS
- SITE ACCESS
- 2.4m PALISADE FENCE
- HV-ELE-HV PROPOSED UIG CABLE ROUTE
- EXISTING VEGETATION
- PROPOSED VEGETATION

**SITE INFRASTRUCTURE:**

	132kV DNO SUBSTATION		CUSTOMER SWITCHGEAR
	SECURITY GATE		CUSTOMER CONTROL ROOM
	CCTV CAMERA		SPARE PARTS
	TWIN SKID (TX)		TRINA ELEMENTA BATTERY UNIT
	POINT OF CONNECTION		PCSK INVERTER
	AUX TRANSFORMER		15m COMMS MAST
	DNO CONTROL ROOM		BATTERY INTERFACE CABINET



## The Benefits

- Introducing BESS into the energy mix allows the electricity network to “balance” generation against demand, support the UK’s urgent need for energy security.
- The BESS would support the UK’s urgent need to transition to a low carbon future, hitting its target of cutting carbon emissions by 78% by 2035.
- BESS maximise the use of renewable energy sources and reduce the need for expensive imported gas and polluting fossil fuel power plants.
- It would help National Grid to use renewable energy to power our homes and businesses when the wind stops blowing and the sun isn’t shining.
- It will provide flexibility through rapid charge or discharge of electricity to allow the National Grid to regulate electricity supply and demand whilst minimising greenhouse gas emissions.
- It will assist Mole Valley District Council to reduce greenhouse gas emissions in line with local, national, and international targets.
- The proposed scheme would not require any government subsidies.

## Getting to Net Zero

Unveiled before crucial UN COP26 climate talks, which the UK hosted in Glasgow in 2021, the government has announced its target to make Britain’s electricity system “net zero carbon” by 2035, a key component of its pledge to reach net zero carbon dioxide emissions by 2050. Put simply, Net Zero means that we will put no more greenhouse gases into the atmosphere than we take out.

Renewable Energy has the single largest role in achieving this target as low carbon technologies such as solar and wind have matured, and can replace existing coal and gas power plants. Draft Government Policy (EN-1) makes clear that as a nation we need to transform the energy system, tackling emissions while continuing to ensure secure and reliable supply, and affordable bills for households and businesses.

Energy storage systems play a vital role in delivering net zero commitments set at local and national level; the National Grid estimates that over 100GWh of energy storage will be required to meet the UK’s net zero target by 2050.



# Public Consultation

You are invited to provide feedback on our draft proposals in the following ways:

- 1 Attend our public consultation event on Monday 12 December 2022 from 2pm to 7pm**

You are invited to attend our public consultation event at which you can see our plans, learn more about our proposal and talk to the project team.

We're holding our public consultation event at the Parish Hall, St George's Christian Centre, Barnett Wood Ln, Ashted, KT21 2DA.

- 2 Fill in the feedback form that accompanies this public consultation brochure.**

Please read through this brochure and provide feedback to us by way of the free post feedback form.

- 3 Visit the dedicated public consultation website: [www.ryebess.com](http://www.ryebess.com)**

We have set up a dedicated public consultation website, where you can find further information about our draft proposals and provide feedback.



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# About Us

Bluestone Energy is a renewable technology developer based in the UK with a global reach. We are committed to supporting global net zero targets to help create a cleaner, greener, more sustainable world.

We originate and develop renewable energy projects across our core technology offering of solar PV, battery energy storage, on shore wind and EV infrastructure. Bluestone Energy's expertise is in land, grid, and renewable energy technology. We have built an enviable business, leveraging key relationships with Governments, Airports, Water Utilities, NHS, and Local Authorities.

This project forms part of a joint development agreement with Macquarie Asset Management's Green Investment Group to develop in excess of 2 GW of battery energy storage capacity throughout the UK.





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## Have Your Say

This brochure is part of the public consultation being undertaken before the planning application is submitted. The LPA will consult separately on the final design which is submitted as a full planning application.

Please take your time to consider the information within this brochure, and don't hesitate to contact a member of our team should you have any questions.

We would be grateful if you could complete the feedback form and provide your contact details for the purpose of informing the project design and our planning application. Feedback received will be included within a Statement of Community Involvement which will accompany the planning application.

For further information, please do not hesitate to email [feedback@alpacacommunications.com](mailto:feedback@alpacacommunications.com)



## Remain Informed

Please visit [www.ryebess.com](http://www.ryebess.com) where information about our proposals will be updated.

 **020 7499 2842**  [feedback@alpacacommunications.com](mailto:feedback@alpacacommunications.com)

 [www.ryebess.com](http://www.ryebess.com)

**Should you require this document in large print, audio or braille then please contact us at the details provided.**

## Feedback Form

To return your completed feedback form please tear it from the brochure and pop it in the post by **Saturday 31st December 2022**. Alternatively, you can return your form via email to [feedback@alpacacommunications.com](mailto:feedback@alpacacommunications.com).

Title:  Name:

Address:  Postcode:

Email:  Telephone:

- Has this leaflet been helpful in understanding our proposal?  Yes  No  Not sure
- Do you support the proposals you have read about within this brochure?  
 Fully support  Broadly support  Do not support  Undecided
- Please use this space to provide any comments on the proposal. We would welcome your feedback on all aspects of the emerging design shown in the brochure.

By filling-in this form you are agreeing that the Bluestone Energy Limited Project Team can hold and process your personal data in relation to this public consultation exercise only. Your data will be stored in line with the GDPR and will not be shared or publicised without your consent. **Your contact details will not be listed on the planning application documentation.**

**Freepost  
ALPACA COMMUNICATIONS LIMITED**

**FOLD HERE**

**Instructions**

To return your feedback form, please fold and put it in the post to us.

If you'd like more space to share your thoughts, send us an email, or just write your comments down and pop them in an envelope with 'FREEPOST ALPACA COMMUNICATIONS LIMITED' written on the front. You don't need any further address or stamp.

Any queries or problems? Get in touch via [feedback@alpacacommunications.com](mailto:feedback@alpacacommunications.com).