

### Welcome to the Virtual Community Consultation for Lochluichart Wind Farm Extension II

- Thank you for logging on to our first virtual 'Community Open Day'. In the following slides you will find a selection of information boards outlining the new proposal for changes to the consented Lochluichart Wind Farm Extension II.
- You will find all of the panels available to download from the website following the consultation period. Please take your time to study the information and please do not hesitate to contact us in one of the ways set up if you have any questions.
- We would be grateful if you could complete a 'Feedback Form' which can be found on the website.
- We will be hosting 2 live 'webinars' to discuss the project with you. Details of these sessions will be on the Consultation webpage.
- There are several other ways to obtain further information and to contact us:
  - Our website [www.lxxwindfarm.co.uk](http://www.lxxwindfarm.co.uk) will be updated with all the latest information. We will publish the planning application documents including the Environmental Statement on the website once the application has been submitted.
  - Email us at [info@lxxwindfarm.co.uk](mailto:info@lxxwindfarm.co.uk)
  - Ring the freephone number **0800 980 4299**
  - Write to us using **Freepost Infinergy Ltd.**



## How wind farms are changing

Wind farms are changing, and that's due to a number of different things:

- **New turbine technology:** Advances in technology are driving efficiency. In order to maximise the amount of energy a turbine can generate, by capturing as much wind as possible, longer turbine blades are being installed. In the UK, there have been new wind farm proposals coming forward which are considering turbines of 180m tip height, for example, Bad Fearn Wind Farm near Dunbeath and up to 200m tip height Sanquhar II Wind Farm in Dumfries & Galloway.
- **New design tools:** The tools we have available to us now to assess locations in terms of the technical requirements, particularly in relation to wind resource, have improved greatly over the years. All that feeds back into the design process and helps developers design the most appropriate wind farm for the site.
- **Market support:** All forms of new renewable energy technology are given financial support by the UK Government until they reach a stage where they can be economically viable without it. Onshore wind is now a more 'mature' technology, market support levels have now reduced considerably. This means that a wind farm designed today must be able to pay for itself through the sale of electricity and in order to do that, the most efficient design and turbines need to be utilised.

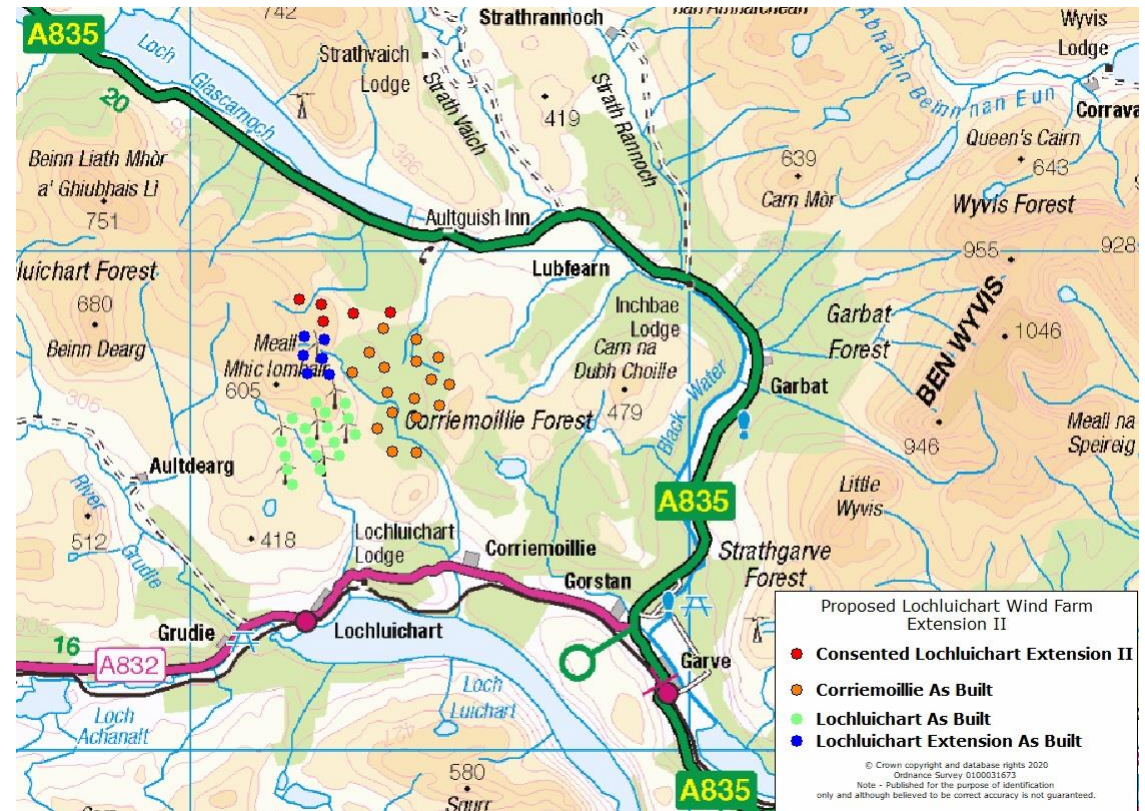
Lochluichart Wind Farm, Highland  
Image for illustrative purposes only



**This will mean that in the future, wind farm sites, whether they be new sites, extensions or the repowering of existing sites, will most likely have larger turbines in order to maximise the energy potential.**

## Overview of the proposed plans

- The proposal is to increase the height, and output, of the five consented turbines that will form an extension to the existing, operational Lochluichart and Corriemoillie Wind Farms.
- The proposal seeks to extend the lifetime of the consented development from 25 to 40 years.
- The proposed turbines would increase the maximum tip height from 133m to 149.9m when one of the blades is in a vertical position. Hub heights would increase from 76m to 83m.
- These 5 wind turbines would have an installed generating capacity of up to 24 megawatts (MW). At present there are various turbine models that suit this site. New and updated models matching the proposed dimensions will also be considered.
- Keeping turbine tip heights under 150m means there is no requirement for visible aviation lighting.



**Consented 5-turbine extension**

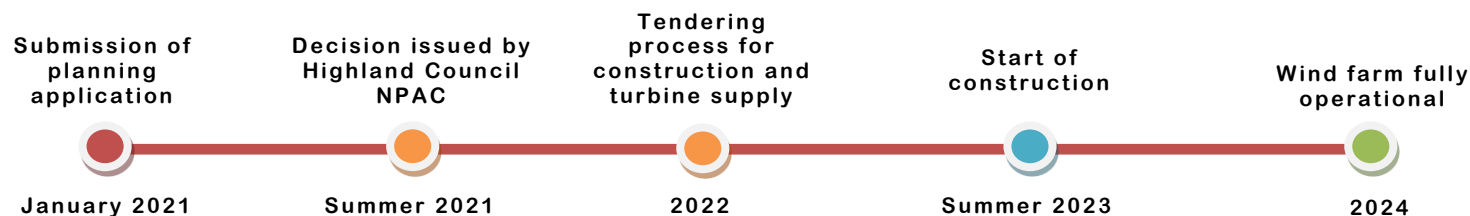
## Electricity & CO<sub>2</sub> equivalent

- Combined, five turbines with an installed capacity of 24MW would have the ability to produce enough green electricity to meet the annual demand of over 13,279 homes\*
- The wind farm would replace the emissions of over 24,841 tonnes of CO<sub>2</sub> each year\*

\*Source: Scottish Government Renewable Electricity Output Calculator. These calculations take the variable output of wind power into consideration and are considered industry standard (the accurate figures, based on the Scottish Government carbon calculator and based on 'all Fossil Fuels' being displaced, will be available as part of the LXX EIA Report).

## Next steps

- We are now planning to submit the new planning application for **Lochluichart Wind Farm Extension II** to the Highland Council early in the new year as a 'Major Planning Application'.
- The Highland Council will consult with NatureScot (formerly Scottish Natural Heritage) and SEPA as well as a number of other statutory consultees.
- An Environmental Impact Assessment Report (EIA Report) including all the results from the surveys will be submitted with the planning application. All documents will be uploaded to our website [www.lxxwindfarm.co.uk](http://www.lxxwindfarm.co.uk) under 'Downloads'.
- If you would like to receive a CD containing all the planning application documents or a hard copy of the Non-Technical Summary (NTS, a condensed version of the ES), please just drop us an email at [info@lxxwindfarm.co.uk](mailto:info@lxxwindfarm.co.uk) The CDs and the NTS are provided free of charge for as long as stock last.
- The timeline shown below gives an indication of possible timescales should the proposal be deemed acceptable and is subject to change depending on the planning process.



## Community Benefit

- This area has a well-established Development Trust, the Lochluichart Community Trust (LCT), and more recently formed Garve & District Development Company in place to help the community become more resilient and sustainable over the long term. Thanks to the community benefit from the Lochluichart and Lochluichart Wind Farm Extension projects, as well as funds from the Corriemoillie Wind Farm, many projects have already been developed and additional funds from this new extension would allow even more good causes to be supported locally.
- Whilst a comprehensive Community Needs Assessment has already been undertaken, if you have further ideas for projects, please do let us know by contacting us or one of the local organisations directly.
- For example, should the funds support:
  - Skills and education?
  - Business enterprise?
  - Tourism infrastructure, eg. More electric vehicle charging points along the NC500?
  - Energy saving measures for local people?
  - Affordable housing?
- Please feel free to write any ideas that you have on how community benefit could make a positive contribution to your local community on the online feedback form which you will find on the consultation webpage.

