

BARNINGHAM RENEWABLE ENERGY PROJECT

Provisional Scheme for Community Generation of Renewable Electricity

Barningham Net Zero Community Interest Company has been investigating the potential for renewable energy in the Barningham area and to date we have:

- Undertaken a survey of local energy consumption
- Evaluated 11 local sites for potential generation of electricity from wind turbines and/or solar photovoltaic (PV) panels
- Held preliminary discussions with landowners
- Confirmed the grid capacity to enable export of electricity
- Reviewed planning considerations and engaged with Durham County Council planning department
- Had an outline scheme designed and obtained budget quotes from suppliers

Following our review of potential sites in the local area, we concluded that there is **no** site currently available that is suitable for wind turbines.

Two sites have been identified for potential installation of solar PV panel arrays – the community owned Bull Acre and a field at the Saw Mill that is owned by Barningham Estate. The scheme would generate electricity which we could sell at advantageous rates to local businesses providing income for parish residents. Installation of 3-phase power would be necessary both to enable export of “our” electricity to the grid and to safeguard the reliability of future increased electricity supply to residents as we all move away from carbon fuels.

Barningham Energy Project Zoom Meeting *Provisional Scheme – Presentation and Question Session*

Wednesday 10th February, 7:30-8:30pm

Joining link will be available at www.barninghamnetzero – News and Barningham Net Zero CIC Facebook page.

.....continued overleaf.....→→

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Power line connection from Saw Mill to Coach House

Purpose:

- connection to enable direct supply to Coghlan's and Millbank Arms
- export of electricity via new 3-phase connection

Site 2 – field at Saw Mill

Technology: Solar Photovoltaic

Generation potential: up to 400kW

Land owner: Barningham Estates

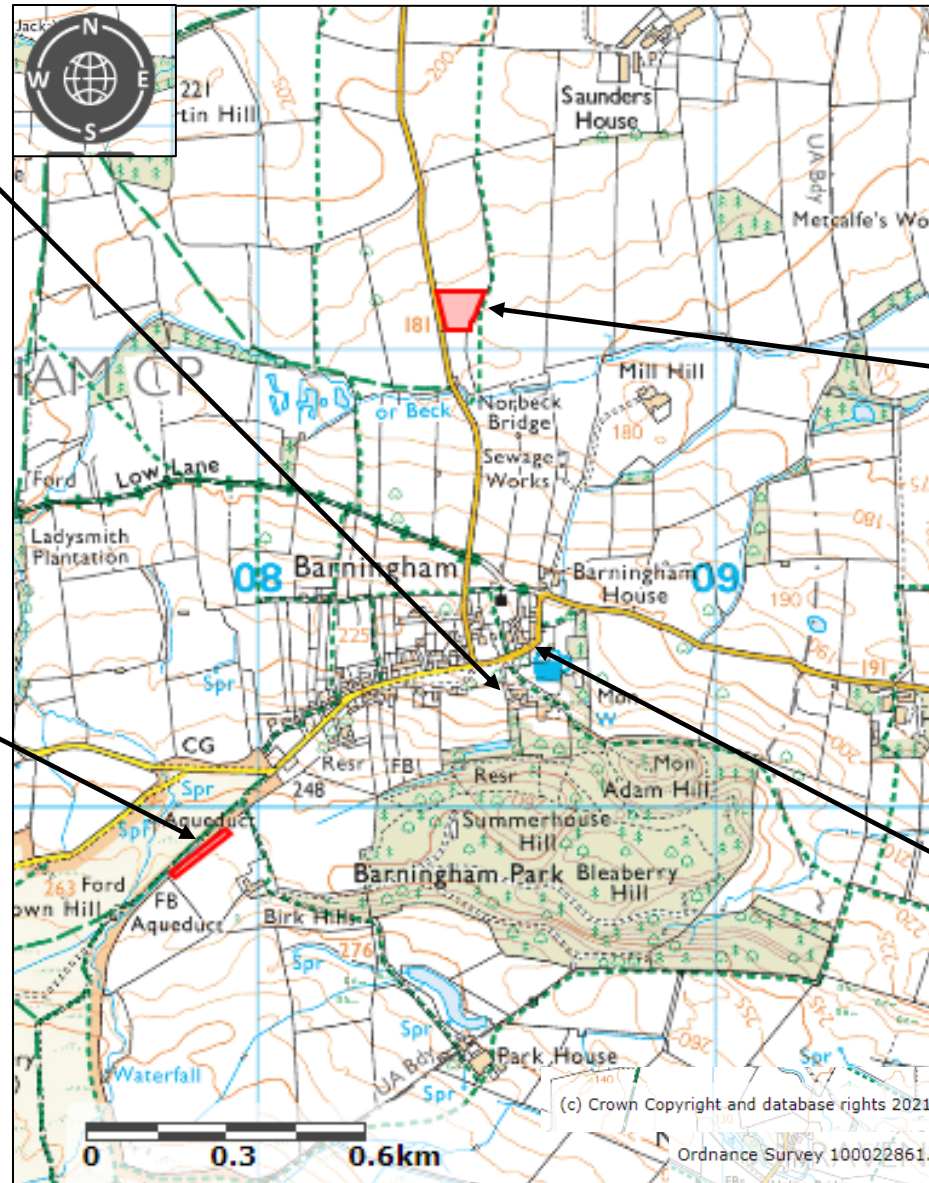
Change in land use: none - grazing can continue at same stocking density

Visual effects:

- visible in landscape from Barningham Moor bridleway above the site looking NNE
- visible from access track to Saw Mill and Park House farm
- not visible from W or N as hidden by 2m high stone wall

Additional planning issues:

- proximity to cairnfields on Barningham Moor (Scheduled Ancient Monument) – archaeological evaluation required
- ecology and biodiversity



Site 1 - Bull Acre

Technology: Solar Photovoltaic

Generation potential: up to 400kW with transmission in and out of Barningham via an existing 3-phase connection point nearby

Land owner: Barningham Parish

Change in land use: none - grazing can continue at same stocking density

Visual effects:

- visible in landscape from Low Lane looking N
- slightly visible from Norbeck Bank

Additional planning issues:

- tree and hedgerow assessment for retention and protection
- ecology and biodiversity

Upgrade of existing electricity supply to the village

Purpose:

- upgrade of existing single-phase system to 3-phase to provide a more reliable electricity supply for current business use and increased future demand in village
- export of electricity to national grid

GIVE US YOUR VIEWS!

We are keen to hear the views of everyone in Barningham and the surrounding area regarding the proposed community energy scheme.

Please return the enclosed comment form to Steve Ottevanger, Elim Cottage, Barningham or e-mail us at: info@barninghamnetzero.com.

If you have any questions please contact Barningham Net Zero via the above e-mail or you can telephone Ewan Boyd at Teesdale Environmental Consulting: 01833 640327.

WHAT HAPPENS NEXT

Two activities remain to complete the Stage 1 Feasibility Study.

Sustainable heating and cooking solutions

Our consultant is investigating the feasibility of sustainable heating and cooking solutions. This is an important project activity in light of the Energy Survey finding that use of fuel oil is the largest local contribution to greenhouse gas emissions.

Community Energy Scheme Financial Analysis

The final task is for the consultant to complete a financial analysis of the renewable electricity generation scheme. The analysis will include:

- Implementation cost and payback period
- How the scheme could be funded, for example, by a loan, share offer or partnering with an electricity company
- Operation, maintenance and organisation requirements
- Financial benefit to the local community, including potential level of payments to households and establishment of a community fund for energy efficiency improvements

A further consultation with the community is planned once this information is available.

www.barninghamnetzero.com

Meeting the Climate Change Emergency in Barningham

Printed and published by the Barningham Net Zero Community Interest Company, Elim Cottage, Barningham