



Energy Statement - Response to Barnsley Core Strategy Energy Policies

Planning Application for the Development of Houghton Main Renewable Energy Park (comprising a Timber Resource Recovery Centre and an Anaerobic Digestion Facility) Including Associated Infrastructure

Land off Houghton Main Colliery Roundabout, Park Spring Road, Houghton Main, Barnsley

Peel Environmental Management (UK) Limited and Houghton Main Waste Limited

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Project:	CRM.066.001
Location:	Land off Houghton Main Colliery Roundabout, Park Spring Road, Houghton Main, Barnsley
For:	Peel Environmental Management (UK) Limited
Status:	FINAL
Date:	May 2014
Authors:	Lee Searles, Director of Planning
Reviewer:	Kevin Parr, Director

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Response to Barnsley Core Strategy Energy Policies

1 Introduction and Background

2 Barnsley Metropolitan Borough Council (BMBC) has requested an Energy Report to accompany the application to demonstrate how the proposed REP will address Barnsley Core Strategy Policies CSP2 and CSP5. This short statement sets out how the proposal will address these requirements.

3 Policy CSP2

4 Policy CSP2 sets out Barnsley's policies to promote sustainable construction in new developments and it has three main elements in relation to non-residential developments:

- Development will be expected to demonstrate how it minimises resource and energy consumption, compared to the minimum target under current Building Regulations legislation.
- Proposals for new development will demonstrate how they are located and designed to withstand the longer term impacts of climate change.
- All non-residential development will be expected to achieve at least BREEAM standard of 'very good' or equivalent.

5 The proposed REP contains two renewable energy plants. Each will utilise the power they generate to run themselves and as such the facilities will run on renewable energy. Therefore in terms of Policy CSP2, the proposed REP will minimise resource and energy consumption.

6 The location of the proposed REP is almost wholly within flood risk zone 1 and as such is considered to be at low risk of flooding. A small amount of development located in the western corner of the site, falling within flood risk zone 2, is of low vulnerability. It is designed to be resilient to flooding and also to maintain capacity within the flood plain through being raised above the ground. Sustainable design features of the proposed development include rainwater harvesting facilities and a comprehensive sustainable urban drainage scheme to manage surface water

7 With regard to building energy efficiency, a key requirement of the management of energy facilities is to dissipate excess heat created from the generation process. The design approach has therefore sought to incorporate key operational requirements into building design.

8 The Design and Access Statement accompanying this application describes the sustainable design components of the scheme. The design of the office and welfare accommodation areas will conform to the requirements of Part L of the Building Regulations ensuring high standards of energy efficiency. Cladding materials would be selected with reference to the current BRE's Green Guide to Specification to ensure that the materials used meet suitable environmental and sustainability standards.

9 The introduction of energy saving design would be of particular importance in the design of the administration and office spaces. At these locations energy efficiency would be achieved



through the use of high insulation materials, glazing and use of power saving measures such as intelligent lighting systems etc.

- 10 Materials with high recycled content will be sourced that are highly durable and have a long life expectancy. In terms of the cladding materials, at the end of their lifespan the high glass, steel and aluminium content means they can be continually recycled. It is these qualities that enable them to achieve an A and A+ rating in the British Research Establishment's (BRE) Green Guide to material specification. This, in turn, assists the REP as a whole in achieving a BREEAM (British Research Establishments Environmental Assessment Method) rating of 'Very Good'. The materials chosen would be decided in appraisal of the balance of life span, ease of maintenance, environmental impact through embodied carbon content and their renewable sources of production.

11 Policy CSP5

- 12 Policy CSP5 sets out BMBC's approach to securing renewable energy in new developments.
 - All developments containing more than 1000 square metres of non-residential floorspace will be expected to incorporate decentralised, renewable or low carbon energy sources and other appropriate design measures sufficient to reduce the development's carbon dioxide emissions by at least 15% for applications submitted up to 2015.
 - Where it is not appropriate to incorporate such provisions within the development, an off-site scheme, or contribution to such may be acceptable.
- 13 The proposed REP is a renewable energy generation development. The two facilities will process waste materials to generate heat and 23 megawatts of power which will be available for local users. In combination, the energy generated by this development, in tandem with its ability to utilise heat and power to meet its own needs, means that the requirements of this policy will be fully met on-site. In addition, the development will have the potential to deliver heat and power off-site to local users.

14 Conclusion

- 15 The proposed REP will directly provide renewable energy and heat to local users and will make a direct contribution to the lowering of carbon dioxide emissions. The design of the development will incorporate sustainable design and construction to adapt to the effects of climate change and achieve relevant building regulations requirements. Appropriate non-process elements of the scheme will achieve very good BREEAM standards. The proposed REP fully meets the requirements of Barnsley Core Strategy Policies CSP2 and CSP5.



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