LOGAN PM
Energy Project Management

Design & Access Statement
Dyce Energy Storage

A report to

Aberdeen City Council

Issue	Reason
1	For submission, January 2022
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1 INTRODUCTION

The developer proposes a battery energy storage system at Raiths Industrial Estate, Kirkton Road, Dyce. This document sets out the design principles and concepts that have been applied to the development and how issues relating to access to the development have been dealt with.

1.1 Planning application

This document supports an application to Aberdeen City Council by Intelligent Land Investments Group plc for consent under the Town and Country Planning (Scotland) Act 1997 for construction of a battery energy storage system at Raiths Industrial Estate, Kirkton Road, Dyce AB21 0BG. The proposal is described as Dyce Energy Storage.

The application seeks consent for the installation of an energy storage system with a generating capacity of up to, and not exceeding, 50 megawatts. The development would consist of containers containing batteries and associated equipment, an access track, electricity meter building, fencing and new planting. Figures 1 and 2 show the site location and layout.

1.2 Site description

The proposed development site is a currently vacant plot within the industrial estate, adjacent to other industrial units and to the boundary of Aberdeen Airport. Immediately to the north is farmland. The development would be accessed from an existing access on Kirkton Road.

The site lies around 1.5km north west of the town of Dyce. The nearest dwellings are around 270 metres from the proposed plant, at The Mews on Pitmedden Road, and around 400 metres to the north at Dyce Drive and Pitmedden Road.

The Dyce – Kintore railway lies around 200 east of the site.

2 DESIGN

The design principles were to deliver a safe, effective and efficient facility, whilst minimising external impacts and maintaining viability.

The location of the development was selected to be in a position with access to the national electricity grid – the facility would be connected to the nearby Dyce grid substation by buried cable. The site itself is well set back from sensitive receptors: houses, public roads and paths.

The area around the site is a mix of industrial facilities, the open space of the airfield and agricultural land. Major roads, a railway, and town of Dyce are nearby.

Given the surrounding context, the energy storage facility form of metal containers, cabinets and transformers and prefabricated building is considered appropriate.

The location close to the existing substation provides for efficient operation whilst giving separation from residents. The site and design chosen is compatible with surrounding land uses.

A turning area was necessary for visiting vehicles and this was placed at the south end of the site to minimise land take.

The site layout has been developed to give a compact footprint assisting efficiency and minimising the land take. Standard container units allow maximum efficiency and effectiveness by allowing final selection of internal equipment at late stage in an area where battery technology is progressing rapidly. The layout takes account of existing infrastructure around it.

3 ACCESS

The facility will be accessed from Kirkton Drive by an existing wide and recently built industrial access. This will provide good level access to all parts of the site. This will be a new facility and will comply with current relevant legislation and standards.

The site will normally be operated remotely without personnel on site and so will not be a permanent place of work. Only authorised personnel with relevant training will work on the site.

The facility will undergo regular maintenance and monitoring as part of its operation, including the access.

There is no existing public access to the land which is a vacant industrial plot. So no change to existing public access is proposed.

4 CONCLUSIONS

The developer proposes a battery energy storage facility at Kirkton Drive, Dyce. The developer has considered design and access issues in relation to the development.