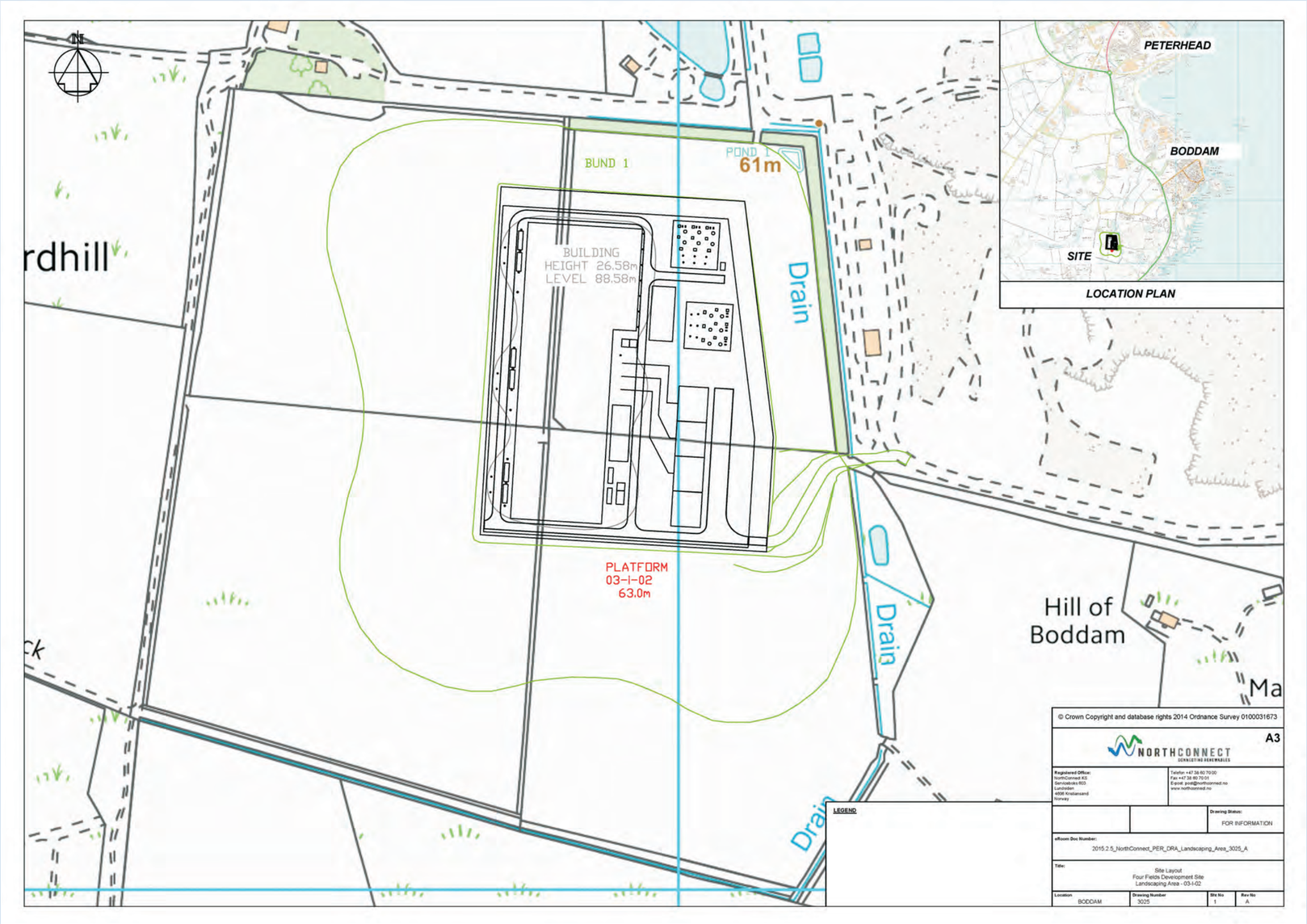
Converter Station

INTERCONNECTOR CONVERTER STATION

The proposed Converter Station in Scotland is situated to the South of Peterhead, west of Stirling Hill Quarry, near Boddam.

The majority of the equipment required will be housed in a building with a footprint of 190x58m. It should be noted that once a technology provider has been selected the dimensions of the building may be reduced. The building will be metal framed so that it acts as a Faraday cage, however, for aesthetic reasons it will have a curved sedum roof and be clad in a combination of red granite and opaque panels.

The main building includes the two converter halls and the inductor hall, where the electricity is converted between AC and DC.



In addition to the main building there will be:

- **A control building including offices and welfare facilities for staff.**
- **Auxiliary building to house operational spares and maintenance equipment.**
- **Coolers to cool the electrical equipment.**
- **Air Handling Units (AHU) which provide filtered fresh air to the converter and inductor halls to maintain operational temperature, humidity and a clean dust-free environment.**
- **Fire Pump House and water storage tanks to provide onsite fire suppression and water storage facilities.**
- **Gas Insulated Switchgear Building housing switchgear that allows the equipment to be isolated in event of a fault to allow safe access by maintenance personnel.**
- **Four Super Grid Transformers (SGT), to change the AC voltage level between the converter's working voltage and that required by the National Grid.**
- **Two auxiliary transformers to provide site power supplies.**
- **A sustainable urban drainage system (SUDS) to manage surface water runoff from the site.**
- **Parking spaces.**

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