

Design Rationale

Assessments are currently being undertaken to review the design and appraise how the facility's mass, siting, orientation, form and colouration would be perceived.

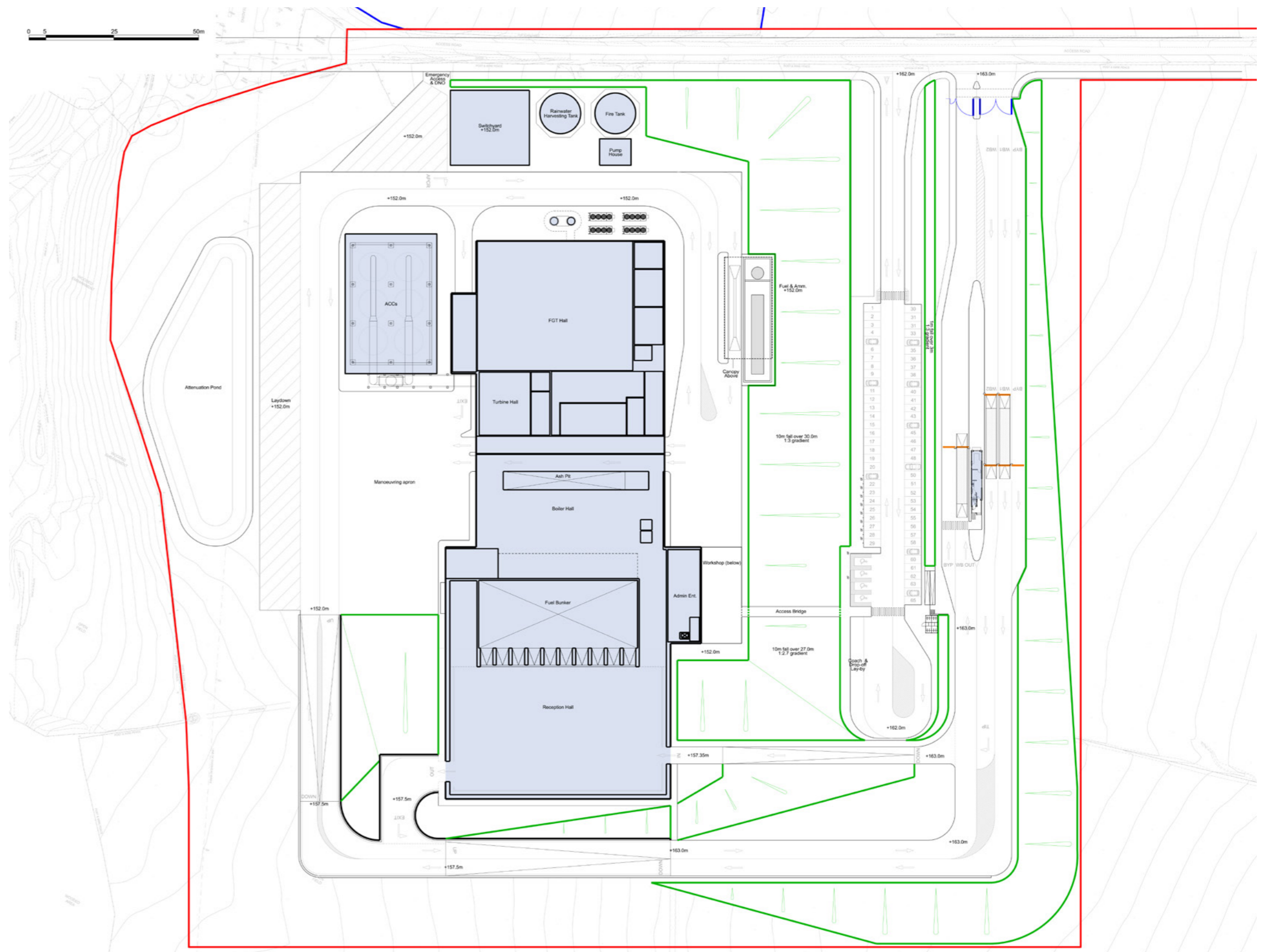
There are numerous small wind farms and individual wind-turbines representing established vertical structures within the study area, as well as high voltage overhead powerlines within and beyond the study area. In terms of the proposed stack, it is apparent that it is characteristic and consistent with existing, local vertical structures.

Disused quarries influence the landscape and the dismantled railway line between Stonehouse and Blackwood / Kirkmuirhill is still legible in the landscape, particularly where embankments and bridges are present. Historic mapping reveals that there was a quarry at Overwood, served by the Overwood Mineral Branch, which extended past Cander-Mains and Dovesdale Farm. The former quarry is now an inert landfill and the William Hamilton & Sons waste transfer facility represents an established larger scale building in the same visual envelope as the proposed ERF.

A broadly north-south orientation of the proposed development aligns with the form of the William Hamilton & Sons waste transfer facility and results in a narrower building envelope when viewed from the residential and recreational receptors to the north and north-west, associated with Stonehouse.

The proposed finished floor levels and local landform enable the proposed development to sit beneath the landscape backdrop and perceptible skyline when viewed from the north east (Carlisle Road).

There is a clear opportunity for the colouration and external façade treatments to respond to the layers of the local landscape. From certain locations the intervening fields are seen as narrow bands with intervening belts of hedgerows that offer a distinct change in colour and texture. The proposed development visualisations presented in the virtual exhibition clearly indicate how the use of a local colour palette and linear façade blocks assist in reducing the perceived mass and visibility of the development during typical climatic conditions.



Site Layout Plan (Click image to enlarge)

The facility is expected to comprise of the following elements:

- Fuel reception hall;
- Fuel store;
- Boiler house including the main elements of the process;
- Flue gas treatment hall;
- Ash storage building;
- Turbine hall;
- Heat station;
- Substation;
- Stack;
- Air cooled condensers
- Administration building including the control room;
- Gatehouse;
- Workshops and stores

Operating Hours

The Overwood ERF will operate twenty-four hours a day, seven days a week, with occasional offline periods for maintenance. However, proposed HGV delivery hours are 6am – 10pm Monday to Saturday and 10am – 4pm on Sundays.