



Design and Access Statement

Proposed Use

The proposal is for the installation of ten high efficiency diesel and/or gas powered generators which are housed in insulated container units with five fuel storage containers, five 400/33kV 4MVA transformers and two switchgear containers.

The proposal will also incorporate a small scale solar PV installation with an output of 10kWp. It is intended that 40 off, 250W panels be installed on the roofs of the switchgear containers and a number of the generator containers. These will be used to provide power required for the on-site auxiliary equipment with any excess fed into the electrical network.

Amount

The number of generators dictates the space requirement of the site; in this instance ten generators are required to feed-back electrical power into the National Grid system.

Layout

The position of the plant has been chosen as it is in close proximity to the local electrical distribution network, thus minimising underground cable or overhead line runs.

Scale

The proposed equipment has the following dimensions (L, W, and H in metres):

Generator containers	12.2 x 2.4 x 2.9
HV Switchgear container	9.8 x 3.2 x 3.4
Transformers	3.4 x 3.4 x 2.5
Fuel Storage	5.5 x 1.8 x 2.0
33kV switchgear housing	4.0 x 4.0 x 3.4

Landscaping

The existing landscaping remains unaltered and no additional landscaping is proposed.

Appearance

The generators, switchgear and fuel store are housed in containers similar in style to a shipping container. These containers are polyester powder-coated in a white finish, RAL 9010.

The compound is to be enclosed with metal palisade and/or Jackson type wooden acoustic fencing where appropriate.

Access

Access into the compound will be by tri-fold gates and pedestrian gates. Access into the generator container is by three side personnel doors. Access to the switchgear containers is by two large doors on the side elevation and there is no access into the fuel stores. Access to the network operator's 33kV switchgear housing is via large double doors.