

Design and Access Statement

Northwick Power Generation Compound
Five Mile Drive
Moreton in Marsh,
Gloucester,
GL56 9TR



Prepared by Green Frog Power
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1. Design Concepts

a. Access

The replacement of the existing diesel generators with new larger gas generators will take place using the existing access road off Five Mile Drive. A crane will be commissioned to lift the engines out of the existing Northwick power generation No1 fenced compound and lowered onto an artic lorry. The artic lorry will be parked on the private track. This is a private track no other road users will be affected.

b. Character

The proposal is to replace the existing 18 diesel generators with 4 larger gas generators within 4 ISO containers. The generators are contained within the existing fenced compound and will be screened by the existing mature landscaping. The replacement engines will not visually impact on the character of the local area as it is dominated by solar farms, peaking plants and an electricity substation.

A new gas kiosk will be constructed next to the Intermediate gas main on the left hand side of the access track. From here an underground pipe will be taken to the compound. The gas kiosk detail is contained within the application documents and the location is indicated on the proposed plan. The kiosk will be green in colour and will blend into the landscape.

c. Community Safety

Due to the nature of this type of development, community safety is of very high importance.

As Northwick Power Generation No1 are supporting the National Grid, we are generating at high voltage and public safety and security is taken seriously.

All of our developments are sited behind 2.4m high metal security fencing with the appropriate signage to adhere to HSE regulations.

A security company has been appointed to ensure that nobody enters the site and to ensure community safety is maintained. CCTV and active detection methods are employed on the site.

d. Environmental Sustainability

This application is for the installation of replacement cleaner technology at the existing Northwick power generation No1 compound.

The generators will be integrated into the existing system within the compound and does not alter any characteristic of the current setup.

Flood Risk Assessment

This site is not affected by the Environment Agency flood map and therefore does not require a Flood Risk Assessment.

e. Movement to, from and within the development

As discussed previously in the report. The site is located adjacent off Five Mile Drive and surrounded by solar parks and mature landscaping.

All deliveries will use this route to remove the existing generators and to replace with 4 new gas generators. A lifting plan will be undertaken to ensure that the generators are taken out safely and the new ones are installed without causing interference upon the local road network.

2. Appraisal

a. Technical analysis

The generating compound exports 7.2MW to the local electricity grid and provides support when the system is under stress. The site is operated remotely by our head office.

The installation will not affect anything externally to the compound.

Northwick Power generation No1 propose to use the best available technology available in gas generation which is 4 to 5 times cleaner than diesel oil generation. We can be seen to help to reduce the impact on air quality locally as well as meeting the Governments targets.

b. Planning Policy

The site benefits from an existing permission No. 16/02902/NONMAT (18th July 2016) which permits the generation of power and erection of buildings associated with such use. The site has been operational since 2017. The site has an established use at this location.

The proposed application indicates a replacement generator layout for the site but the intended use, site boundaries and general arrangements remain largely unaltered.

3. Conclusion

The applicant is proposing to replace the current diesel generators with new larger gas generators into the already established Northwick power generation No1 compound located at Five Mile Drive, Moreton in Marsh, GL56 9TR.

The site benefits from a planning permission that permits generation of power at this location. The site became operation in 2017. The proposal will help support the local grid in that area and keep the lights on in the borough at all times.

The proposal does not alter the current fencing and the landscaping remains untouched and does not affect the character or visual impact of the local area.

The project has been approved by OFGEM, National Grid and National Grid Energy Distribution.