



Peak Gen Power Ltd
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Design and Access Statement

Application for Full Planning Permission for:

**Addition of Roof Mounted Equipment and Handrails to 3 Generators &
Installation of Integrally Bunded Ad-Blue Storage Tank Within Compound**

At Address:

**Peak Gen Power Ltd Compound, Booker Site, Hatfield Business Park,
Frobisher Way, Hatfield, Hertfordshire, AL10 9TR**

1. Existing Site & Previous Planning Permission

a) S6/2010/3155/FP

Planning permission reference S6/2010/3155/FP was granted by Welwyn Hatfield Borough Council for the PeakGen Power Generator Compound at Hatfield Business Park, Frobisher Way, Hatfield, Hertfordshire, AL10 9TR on 17th June 2011. The permission was granted for the installation of five diesel powered generators housed in insulated container units, with two no. fuel storage containers and one switch gear container and 2.5m acoustic barrier. The location of the site is as outlined on 'HAT01 Location Plan'.

The site was developed to have 3 containerised generator units and not the total 5 units that consent was provided for. Development of the site completed in 2011, with the containerised generating units and associated equipment commissioned and brought into service.

b) S6/2012/2163/FP

Planning permission reference S6/2012/2163/FP was granted by Welwyn Hatfield Borough Council for the PeakGen Power Generator Compound at Frobisher Way on 20th December 2012 for the erection and retention of solar panels at the generator compound (retrospective application).

2. The Requirement for Cleaner Generation

The generator units located at the PeakGen Power Generator Compound site are contracted by National Grid Electricity System Operator (NGESO) to balance the fluctuating power requirement in the UK's electricity network. The generators are signalled by NGESO to operate during periods of high system demand for electricity, or when there is a shortfall in supply.

The Secretary of State for Business, Energy & Industrial Strategy, Rt Hon Kwasi Kwarteng MP, has written to NGESO increasing the amount of generating reserve that is to be contracted in 2022: see Appendix 1 'Update to the Capacity Market Auction Parameters Letter BEIS 21.01.2022'. This is because there is an increasing number of traditional fossil-fuelled power stations are closing due to Climate Change legislation and an increase of renewable power sources, which are intermittent in generating electricity, particularly at times of low wind or little sun. The current cost of energy crisis is partially a symptom of the lack of reserve energy that is currently available in the market.

The generator units at the PeakGen Power Generator Compound have been contracted to provide reserve generation for NGESO in winter 2022. There is technology available to "clean" the exhaust emissions from the generators when they are in operation, specifically the nitrogen oxide emissions (NOx). Being able to install this technology and equipment onto the existing generators will enable cleaner generation and improved air quality when the units are in operation.

There is a limited outage season to be able to install the clean technology, the site must be commissioned and ready for service from 1st October 2022, in preparation for supporting NGESO with additional generation reserves during the cold winter months.

a. The Environmental Permitting (England and Wales) (Amendment) Regulations 2018

To support the transition to cleaner generation, the Regulations came into force in January 2018. The Regulations under paragraph 5 of Schedule 25B Environmental Permit Conditions: General, introduce a new requirement with effect from January 2019 that generating units such as those

installed by Peak Gen at Frobisher Way if generating electricity for certain NGESO agreements must be able to limit the emissions of nitrogen oxides to 190/Nm³. These agreements take the form of having available capacity to generate electricity to meet peak electricity demand particularly in times of shortfall of supply. This ensures security of supply of electricity across the UK.

3. Proposed Development

The applicant plans to operate all 3 of the generators currently located at the site at Frobisher Way for such NGESO agreements as mentioned in section 2a from October 2022. The generators have not previously been submitted into these agreements. To meet cleaner generation by reducing the NOx emissions from the generators, as well as meeting the requirements of the Regulations, it is necessary to add exhaust gas treatment to all generators, known as Selective Catalytic Reduction (SCR) which will convert the nitrogen oxides in the generator exhaust to nitrogen and water.

The addition of the SCR units requires some limited physical alteration to the 3 containerised generator units by adding some roof mounted equipment and associated handrails to support safe maintenance access. There will also be the addition of an integrally bundled Ad Blue storage tank within the generator compound. In all other respects, the appearance of the development will not change, and the mode of operation of the generators will also not change.

PeakGen will be ordering the equipment required for the SCR equipment for each containerised generator in February 2022, for install before 1st October 2022.

Following the grant of planning permission PeakGen will seek the necessary permits from the Environment Agency to operate the generator units in accordance with the Regulations.

4. Appearance

Drawings HAT02 "Site Layout with SCR" & HAT03 "Site Elevations with SCR" show the proposed additions of the SCR equipment on top of the existing generator units. The SCR equipment will add a height of 0.903m versus the existing equipment.

5. Landscaping

The existing landscaping and compound perimeter fence will remain unaltered and no additional landscaping is proposed.

6. Access

There is no change to the existing access arrangements.

7. Layout

There is no change to the existing site layout except the addition of the Ad Blue storage tank.

8. Planning Application

PeakGen Power Ltd makes this application for full planning permission to:

- a. Install the SCR units to the 3 containerised generating units by adding some limited roof mounted equipment and associated handrails to support maintenance; and
- b. Install an integrally bunded Ad Blue storage tank with 110% volume to the standard required by the Environment Agency Anti-Pollution Works Regulations within the generator compound

10/02/2022

Peak Gen Power Ltd