

British Gas, Oxford: Non-Technical Summary

This application is for an environmental permit for the operation of one diesel generator at the British Gas Oxford Site at 2600 John Smith Drive, Oxford Business Park (South). The application is made in the name of BG Gas Holdings Ltd

The one generator has a thermal input of 1.951 MW_{th} and is fired with ultra low sulphur diesel. The generator will operate for no more than 500 hours per year. The unit is primarily used to provide emergency power to maintain the site electrical systems in the event of an interruption in the electricity supply to the site. A secondary use is to be able to provide flexible and efficient emergency generation capacity to support the local electricity distribution system by providing additional temporary generation at times of peak demand or to provide grid-balancing services that compliment the intermittent nature of the increasing levels of renewable energy sources supplying the national grid.

The generator is deemed to be a Tranche B generator under the Specified Generator controls as a capacity market agreement is held and as such, the generator is required to satisfy an exhaust gas NO_x emission limit of 190 mg/m³. This is achieved using abatement equipment fitted to the exhaust ductwork which comprises a selective catalytic reduction system using an Ad-blue (dilute urea solution) dosing system. The cleaned exhaust gases from the generator is discharged directly to the atmosphere via a dedicated exhaust stack with a release height of 5m.