

## Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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**Bridgend County Borough Council**

**Bridgend Life Centre Energy Centre  
Angel Street  
Bridgend  
Wales  
CF31 4AH**

Permit number

**PAN-013165**

# **Bridgend Life Centre Energy Centre**

## **Permit number PAN-013165**

### **Introductory note**

#### **This introductory note does not form a part of the permit**

The main features of the permit are as follows.

This permit will allow the operator to operate:

- One new medium combustion plant (MCP) which is also a Tranche B Specified Generator (SG) between 1 and <50MWth but aggregated to <50MWth, which were put in operation on or after 20/12/2018 at a specified location; and

This permit will allow the operator to operate one 1.14 MWth input natural gas fuelled Combined Heat and Power (CHP) engine. Emissions are discharged to the environment through a flue which runs up the existing flue support to the eastern site of the Leisure Pool building. The plant is permitted as one 1.14 MWth new MCP and Tranche B SG as the unit produces electricity and was put into operation after 20 December 2018. The purpose of the site is to supply domestic hot water and heating to Bridgend County Borough Council Civic Offices via a new below ground district heating network. The plant also generated low voltage electricity which is fed via a new low voltage private wire electricity supply into the Bridgend Life Centre complex as well as to the Civic Offices.

There are no Sites of Special Scientific Interest (SSSIs) within 2.0 km of the plant. The plant is within 5 km of Kenfig / Cynffig Special Area of Conservation (SAC) and Glaswelltiroedd Cefn Cribwr / Cefn Cribwr Grasslands SAC. The closest residential receptors are within 100m south east of the stacks location.

The status log of the permit sets out the permitting history, including any changes to the permit reference number.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application PAN-013165	Duly made 26/08/21	Application for a new MCP and Tranche B SG permit
Schedule 5 Notice	27/08/21	Request for amended air dispersion modelling assessment
Additional information received	08/09/21	Information supporting Schedule 5 request provided
Permit determined	13/10/21	Permit issued to Bridgend County Borough Council

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

**PAN-013165**

The Natural Resources Body for Wales (“Natural Resources Wales”) authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

**Bridgend County Borough Council** (“the operator”),

whose principal office is

**Bridgend County Borough Council  
Civic Offices  
Angel Street  
Bridgend  
CF31 4WB**

to operate one Medium Combustion Plant and Specified Generator at

**Bridgend Life Centre Energy Centre  
Angel Street  
Bridgend  
Wales  
CF31 4AH**

to the extent authorised by and subject to the conditions of this permit.

Signed	Date
<b>Holly Noble</b>	<b>13/10/2021</b>

Authorised on behalf of Natural Resources Wales

# Conditions

## 1 Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, so far as is reasonably practicable, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

## 2 Operations

### 2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1, table S1.1 (the “activities”).

### 2.2 The site

- 2.2.1 No MCP shall be operated beyond the site of the grid reference specified for it in schedule 1, table S1.1 of the permit.

### 2.3 Operating techniques

- 2.3.1 The activities shall be operated using the techniques and, in the manner, described in schedule 1, table S1.2.

## 3 Emissions and monitoring

### 3.1 Emissions to air

- 3.1.1 There shall be no point source emissions to air except from the sources and emission points listed in schedule 3, table S3.1.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.

### 3.2 Monitoring

- 3.2.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit, or at a greater frequency if notified to the operator in writing by Natural Resources Wales:
- (a) point source emissions specified in table S3.1.

- 3.2.2 Monitoring shall not take place during periods of start up or shut down.
- 3.2.3 The first monitoring measurements shall be carried out within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.
- 3.2.4 The operator shall maintain records of all monitoring including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, test and surveys and any assessment or evaluation made on the basis of such data.
- 3.2.5 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme specified in condition 3.2.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales

## **4 Information**

### **4.1 Records**

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
  - (b) be made as soon as reasonably practicable;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - (d) be retained, unless otherwise agreed in writing by Natural Resources Wales, for at least 6 years from the date when the records were made.
- 4.1.2 The operator shall maintain convenient access, in either electronic or hard copy, to the records, plans and management system required to be maintained by this permit.
- 4.1.3 The operator shall maintain a record of the type and quantity of fuel used and the total annual hours of operation for each MCP and/or Specified Generator.
- 4.1.4 The operator shall maintain a record of any events of non-compliance and the measures taken to ensure compliance is restored in the shortest possible time

### **4.2 Reporting**

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4, table S4.1;
  - (b) for the reporting periods specified in schedule 4, table S4.1 and using the forms specified in schedule 4, table S4.2; and
  - (c) giving the information from such results as required by the forms specified in those tables.

### **4.3 Notifications**

- 4.3.1 In the event:
- (a) of a breach of any of the permit conditions the operator must immediately—
    - (i) inform Natural Resources Wales, and
    - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

- (b) of a breach of any of the permit conditions which causes a significant degradation of local air quality, the operator must immediately suspend the operation of the activities or the relevant part of them until compliance with the conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

  - (a) any change in the operator's trading name, registered name or registered office address; and
  - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

  - (c) any change in the operator's name or address; and
  - (d) any steps taken with a view to the dissolution of the operator.

In any other case:

  - (e) the death of any of the named operators (where the operator consists of more than one named individual);
  - (f) any change in the operator's name(s) or address(es); and
  - (g) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

## 4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

# Schedule 1 – Operations

**Table S1.1 activities**

National Grid Reference and or activity reference/ emission point	Activity listed in the EP Regulations	Description of Medium Combustion Plant and/or Specified Generator	Fuel	Operating hours limit per annum
Activity Reference AR1 Unique Identifier: Veolia V-0450AG-070-NG-50-250_ct70 NGR: SS 90303 79389	Schedule 25A – Medium Combustion Plant and Schedule 25B – Specified Generator	1 x1.14 MWth input Combined Heat and Power engine	Natural gas	Not limited
Emission Point 1 NGR: SS 90306 79383				

**Table S1.2 Operating techniques for Specified Generator and Medium Combustion Plant as detailed in Schedule 7**

**Description**

Each MCP/specified generator must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this

The operator must keep periods of start-up and shut-down of each MCP/generator as short as possible

There must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993

Where secondary abatement is required to ensure compliance with the NOx ELV it must be met within 10 minutes from when the generator commences operation or within 20 minutes when the generator was a Tranche A and is now a Tranche B

The stack must be vertical and unimpeded by cowls or caps.

The operating regime of the generator must be in line with document reference Bridgend Town Heat Network Application dated 18/02/2021 submitted as part of permit application PAN-013165.

## **Schedule 2 – Waste types, raw materials and fuels**

This schedule is not used.



## Schedule 3 – Emissions and monitoring

**Table S3.1 Point source emissions to air – emission limits and monitoring requirements**

Emission point as referred to in table S1.1	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method <sup>Note 1</sup>
Emission Point 1 NGR: SS 90306 79383	Combined Heat and Power Engine fuelled on natural gas	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	95 mg/m <sup>3</sup>	Periodic (average over one hour)	Within 4 months of the issue date of the permit or when the MCP is first put into operation whichever is later then every 3 years thereafter	MCERTS BS EN 14792
		Carbon monoxide	No limit set	Periodic (average over one hour)	Within 4 months of the issue date of the permit or when the MCP is first put into operation whichever is later then every 3 years thereafter	MCERTS BS EN 15058

Note 1: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O<sub>2</sub> content of 15 % for engines.

## Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

**Table S4.1 Reporting of monitoring data**

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.2.1.	Emission Point 1	Every 3 years	1 January

**Table S4.2 Reporting forms**

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	13/10/21

## Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

### Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

**(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution**

**To be notified within 24 hours of detection**

Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

**(b) Notification requirements for the breach of a limit**

**To be notified within 24 hours of detection unless otherwise specified below**

Emission point reference/ source	
Parameter(s)	
Limit	

<b>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

<b>(c) Notification requirements for the detection of any significant adverse environmental effect</b>	
<b>To be notified within 24 hours of detection</b>	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

## Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of the operator

## Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by Natural Resources Wales under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“combined heat and power” (CHP) or Cogeneration means the simultaneous generation in one process of thermal energy and electrical or mechanical energy.

“EA TGN M5” means the ‘Environment Agency Technical Guidance Note M5: Monitoring of stack gas emissions from medium combustion plants and specified generators’ guidance published on Gov.UK.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“first put into operation” means that the plant must have been fired with its design fuel up to its full load. This can be, but does not have to be, during commissioning.

“limited operating hours MCP” means an MCP that meets the requirements of paragraph 8 of Part 2 of Schedule 25A of the EP Regulations.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“medium combustion plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants.

“operating hours” means the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“specified generator” has the meaning given in paragraph 2(1) of Schedule 25B of The EP Regulations.

“tranche A generator” has the meaning given in paragraph 3(3) of schedule 25B of The EP Regulations.

“tranche B generator” is any generator that is not a Tranche A generator.

“year” means calendar year ending 31 December.

## Schedule 7 – Annex 1 of MCPD

<b>1. Rated thermal input (MW) of the medium combustion plant.</b>	1x 1.14 MWth input new Medium Combustion Plant and Tranche B Specified Generator
<b>2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant).</b>	CHP engine
<b>3. Type and share of fuels used according to the fuel categories laid down in Annex II.</b>	Natural Gas 100%
<b>4. Date of the start of the operation of the medium combustion plant or, where the exact date of the start of the operation is unknown, proof of the fact that the operation started before 20 December 2018.</b>	03/01/2022
<b>5. Sector of activity of the medium combustion plant or the facility in which it is applied (NACE code).</b>	D35.1.10 – Production of Electricity
<b>6. Expected number of annual operating hours of the medium combustion plant and average load in use.</b>	8100 Hours, 100% Average load in use
<b>7. Where the option of exemption under Article 6(3) or Article 6(8) is used, a declaration signed by the operator that the medium combustion plant will not be operated more than the number of hours referred to in those paragraphs.</b>	N/A
<b>8. Name and registered office of the operator and, in the case of stationary medium combustion plants, the address where the plant is located.</b>	Bridgend County Brough Council, Civic Offices, Angel Street, Bridgend, CF31 4WB Site address: Bridgend Life Centre Energy Centre, Angel Street, Bridgend, Wales, CF31 4AH

END OF PERMIT