



# Environmental Management System



University of Liverpool Energy Centres





Report produced for University of Liverpool Energy Company Limited

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<b>Author</b>	Jihanna Bonilla-Allard	
<b>Reviewer</b>	Martin Ropka	

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## 1.0 INTRODUCTION

This Management System set out the considerations and operational details relevant to the operation of two Energy Centres, operated by the University of Liverpool Energy Company Limited (hereon referred to as ULEC), that house three natural gas fired boilers and three natural gas fired combined heat and power (CHP) engines on the main University of Liverpool campus. It details the nature of the site, relevant site and infrastructure works, methods of operation and environmental controls. It has been prepared in accordance with the following documents:

- The Environmental Permitting (England and Wales) Regulations 2016, and
- The Industrial Emissions Directive 2010.

The CHPs and Boilers supply heat and electricity to the main campus buildings of the University of Liverpool. The CHP engines produce electricity via the combustion of gas which in turn generates heat as a by-product. This heat will be harnessed and transferred into useable energy for hot water which is then piped across the campus. The operation of the boilers and CHP plant will follow demand to some extent and as such, the CHP plants will be operating at full load in times of high demand e.g. winter and reduced loads in periods of low demand e.g. summer. One of the boilers runs more often than the others, providing additional heat where required. The remaining two boilers are back-up for use in times of plant failure or in the extreme scenario that more heat is demanded than can be provided by the CHP engines and other boiler. Energy Centre 1 (NEC 1) is the most southerly of the two Energy Centres and houses the CHP engine which has a net thermal input rating of 11MW and the three boilers. This Energy Centre is a modern purpose-built building. The CHP engine and boiler plants in this building emit their exhaust gases through individual chimney stacks that are 48m high. Energy Centre 2 (NEC 2) houses the two CHP engines with net thermal input ratings of 4.5MW. This Energy Centre is a former boiler house. Each appliance in this building emits their exhaust gases through individual chimney stacks that are 29m high.

The natural gas which is combusted in the boilers will be piped directly onto site from three gas mains via gas boosters. The Energy Centres are operated in line with the requirements of the Industrial Emissions Directive (IED) and any permit requirements that are attached to the permit.

The operational layout of the facility is shown in the site layout plan (EPR\_002 Site Layout Plan).

## 2.0 SITE DETAILS

### 2.1 Site Address

University of Liverpool Energy Company Limited  
ULEC Energy Centres  
Ashton Street,  
Liverpool  
L69 7ZX

### 2.2 Operational Location

Site Grid Reference: SJ 35839 90499

### 2.3 Site Description

There are two buildings that make up the site located approximately 1km to the east of Liverpool city centre. Access to the site is via Ashton Street which runs in a north-south direction connecting West Derby Street with Brownlow Hill. The facility is situated in a highly urbanised area with hospitals, museums, university buildings and halls of residences surrounding it. This permit management system only considers the two Energy Centres operated by ULEC on Ashton Street.

### 2.4 Site Plan

Reference Drawing: ULEC\_Site\_Location\_Plan  
ULEC\_Site\_Layout\_Plan

### 2.5 Permits and Licenses

ULEC is currently permitted to operate a pair of Energy Centres that house three natural gas fired boilers and three natural gas fired combined heat and power (CHP) engines which provide heat and power to nearby University of Liverpool campus buildings. The aggregated thermal input of all appliances is 65MW and as such a Part A installation permit under Part A(1) (a) of the Environmental Permitting Regulations "*Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts*" is required. This installation permit is bespoke due to the presence of nearby ecological receptors. ULEC also hold a GHG Emissions permit which is verified annually through the UK Emissions Trading Scheme, regulated by the Environment Agency.

### 2.6 Exempt Activities

ULEC do not currently undertake any exempt activities on the site.

### 2.7 Planning Permission

There is full planning permission for the operations covered by this application, issued by Liverpool City Council under references 08F/0688 issued on 10<sup>th</sup> March 2008 and 12F/2799 issued on 13<sup>th</sup> February 2013. These serve the two separate buildings that house the boilers and CHP for which an environmental permit is being sought for their operation.

## 2.8 Aggregated Capacity

ULEC operates 3No. natural gas fired boilers and 3No. natural gas fired combined heat and power (CHP) engines, all of which are housed across two, immediately neighbouring Energy Centres. The boilers each have a net thermal input rating of 15MW. Two of the CHP engines have a net thermal input rating of 4.5MW whilst the third has a net thermal input rating of 11MW.

## 2.9 Directly Associated Activities

The associated activities with the Energy Centres and boiler and CHP operations are:

- Water pumps
- Gas boosters
- Pressurisation units
- Plate Heat Exchangers
- Side stream filtration
- Water softening
- Engine cell ventilation

## 3.0 OPERATIONAL OVERVIEW

### 3.1 Permitted Activities

The Energy Centres will comprise of three natural gas fired CHP engines and three natural gas fired boilers that supply heat and electricity to the main campus buildings of the University of Liverpool. The CHP engines produce electricity via the combustion of gas which in turn generates heat as a by-product. This heat will be harnessed and transferred into useable energy for hot water which is then piped across the campus via plate heat exchangers. The operation of the boilers and CHP plant will follow demand to some extent and as such, the CHP plants will be operating at full load in times of high demand e.g. winter and reduced loads in periods of low demand e.g. summer. One of the boilers runs more often than the others, providing additional heat where required. The remaining two boilers are back-up for use in times of plant failure or in the extreme scenario that more heat is demanded than can be provided by the CHP engines and other boiler. Energy Centre 1 (NEC 1) is the most southerly of the two Energy Centres and houses the CHP engine which has a net thermal input rating of 11MW and the three boilers. This Energy Centre is a modern purpose-built building. The CHP engine and boiler plant in this building emit their exhaust gases through individual chimney stacks that are 48m high. Energy Centre 2 (NEC 2) houses the two CHP engines with net thermal input ratings of 4.5MW. This Energy Centre is a former boiler house. Each appliance in this building emits their exhaust gases through individual chimney stacks that are 29m high.

The natural gas which is combusted in the boilers will be piped directly onto site from three gas mains via gas boosters. The Energy Centres are operated in line with the requirements of the Industrial Emissions Directive (IED) and any permit requirements that are attached to the permit.

Other activities that take place inside the Energy Centres include side-stream filtration and water softening.

The operational layout of the facility is shown in the site layout plan (ULEC Site Layout Plan).

### 3.2 Hours of Operation

The CHP engines and boilers will be capable of operating 24 hours a day, 365 days a year i.e. 8,760 hours a year. The CHPs will operate as the lead heat and electricity source with the boilers operating as back-ups.

### 3.3 Staffing

The ULEC Energy Centres has 1 staff member as a minimum at any one time and a maximum of 10 staff members. This will be a combination of employed staff, and external contractors. ULEC shall ensure that there are sufficient employees who are suitably trained and have demonstrated competency present onsite to manage and operate the Energy Centres. Manufacturer training is provided to staff where applicable.

#### 3.3.1 Site Manager

The Site Operation Lead will be permanently based at the Energy Centres and will be the site manager and primary onsite contact. As site manager, the Site Operation Lead will be



responsible for managing and coordinating contractors and onsite work, monitoring performance and plant operation, general housekeeping, facilitating audits and liaising with the Energy Services Team and Maintenance Team when required.

### *3.3.2 Other Staff*

The Director of Estate Management and Board Director for ULEC will be ultimately responsible for the operation of the plant. The Energy services team (including the Carbon and Utilities Manager) and Maintenance team are also responsible for the operation of the plant. Other staff members include Engineering Maintenance Contractors and other contractors (such as welders) as required.

The Carbon and Utilities Manager and the Energy Services Team Lead will be responsible for the environmental permit and any reporting to the Environment Agency.

All contractors will report to the Primary Onsite Contact (the site operation lead). The Primary Onsite Contact will then report to the Engineering Maintenance Hub Manager and also reports to the Energy Services team (Carbon and Utilities Manager).

### *3.3.3 Staffing Hours*

Core hours for the Energy Centres staff is 9am-5pm, Monday to Friday. Call out staff and contractors will work on an as required (25/7) basis. Staff numbers will be maintained at a level sufficient to operate and supervise the site effectively and throughout periods of employee sickness and holidays.

### *3.3.4 Staff Training*

Each person, whose duties affect the process shall be trained, instructed, and supervised commensurate with those duties, such that he/she is competent. Training records for personnel who affect site procedures, operations and quality shall be maintained.

All staff - internal or external - are required to be gas safe and competently trained. External contractors, including those engineers on long term service contract for the plant, are required to annually provide evidence of gas safe and competency. Gas safe is also picked up through the Gas Safety Group which meets quarterly. Compliance in training is ultimately looked after by the Head of Engineering and Maintenance Operations.

Energy Services staff are appropriately qualified and/or trained in energy and carbon compliance, vis-à-vis regulation and statutory permitting.

## **3.4 Site Identification Board**

In conformance with permitting regulations, ULEC shall display a clear, all-weather, easily readable Site Notice at or near the entrance to the site. The Site Notice shall contain the following information:

- Company name
- Permit number
- Permit holder's name
- Emergency contact number

- Permit holder's telephone number
- Statement that the site is permitted by the Environment Agency (EA)
- EA national telephone numbers

The identification board shall be regularly inspected. In the event of damage or defect, the board shall be repaired or replaced within three working days.

### 3.5 Site Security

Site security is maintained through the presence of 24-hour contract security, CCTV cameras and access control.

### 3.6 Relevant Convictions

In the unlikely event of the permit holder or a relevant employee being convicted of any relevant offence, full details of the conviction shall be provided to the Environment Agency within 14 days. Details of any appeals shall also be reported to the authority.

### 3.7 Maintenance of Financial Provision

ULEC shall make financial provisions to meet the requirements and obligations of the Permit.

### 3.8 Reporting to the Environment Agency

All reporting required by the following shall be carried out in accordance with *OP04 - Environmental Permit Reporting*. These correspondences shall include the reference number and the name of the permit holder. This shall include but is not limited to:

- Relevant convictions
- Change of operator's or holder's details
- Notification of preparatory works
- Commencement or cessation of waste operations
- Site performance

### 3.9 Permissible Abnormal Operations

In the event of abnormal operations – where the plant is non-operation due to unplanned urgent maintenance or breakdown – ULEC would escalate to the ULEC board. The Energy Centre's boilers provide back-up heat in the event that none of the CHPs are operational.

## 4.0 SITE ENGINEERING

### 4.1 Access and Parking

Access to the site is via the main entrance, off Ashton Street. Parking facilities are provided adjacent to the site.

### 4.2 Operational Area

Access to the site is via Ashton Street which runs in a north-south direction connecting West Derby Street with Brownlow Hill. The facility is situated in a highly urbanised area with hospitals, museums, university buildings and halls of residences surrounding it. Energy Centre 1 (NEC 1) is the most northerly of the two Energy Centres and houses the CHP engine which has a net thermal input rating of 11MW and two boilers. This Energy Centre is a former boiler house. Each appliance in this building emits their exhaust gases through individual chimney stacks that are 29m high. Energy Centre 2 (NEC 2) houses the two CHP engines with net thermal input ratings of 4.5MW and one boiler. This Energy Centre is a modern purpose-built building. Each CHP engine and boiler plant in this building emit their exhaust gases through individual chimney stacks that are 46m high.

### 4.3 Site Office

A hard copy of the Environmental Permit and Management System will be held in the site office for reference. Toilets and washing facilities are provided for staff and visitors.

The following information and equipment will be kept in the site office:

- Environmental Permit;
- Management System;
- Emissions Management and Monitoring Plan;
- Environmental Risk Assessment;
- Current Site Diary;
- First aid kit;
- Conditions of site use for employees, visitors and contractors;
- EA inspection forms;
- Internal inspection sheets/monitoring forms;
- Accident book and first aid kit.

### 4.4 Drainage and Containment System

All operations take place on an impermeable concrete surface and the CHP engines and the boilers are housed indoors, also on an impermeable concrete surface.

### 4.5 Natural Gas Boilers

#### 4.5.1 *Technology details*

The technological specifications of the natural gas fired boilers are presented in Table 1 below. The boilers have been designed according to BS EN 12953.



**Table 1: Natural Gas Boiler Technical Specifications**

Natural Gas Boiler Technical Specifications	
Make	Danstoker
Model	TVB-H-15-Combination/TVB-H-15
Net Thermal Input Rating	15MW
Max. Rate of Fuel Consumption	12,535 kwh/hr (Boiler 1) 56 kwh/hr (Boilers 2 and 3)
Control System	Rationtronic 6000 burner controller
Variable Heat Load	0-13MW (Boiler 1). 0-12MW (Boilers 2 and 3)
Stack Height	29m (NEC 1), 46m (NEC 2)

#### 4.6 CHP Engines

The technological specifications of the natural gas fired CHP engines are presented in Tables 2 and 3 below:

**Table 2: Jenbacher CHP Technical Specifications**

CHP Technical Specifications	
Make	GE Jenbacher
Model	GE Jenbacher reciprocating engine - JMS-620
Net Thermal Input Rating	11MW
Heat Efficiency	44.56
Power Efficiency	27.61
Max. Rate of Fuel Consumption	8,536 kwh/hr
Control System	Jenbacher DIANE XT controller.
Variable Heat Load	Up to 3.5MW
Stack Height	29m

**Table 3: Edina CHP Technical Specifications**

CHP Technical Specifications	
Make	Edina
Model	GS-N.I/ Edina reciprocating engine - 2020-E20
Net Thermal Input Rating	4.5MW
Heat Efficiency	44.56
Power Efficiency	27.61
Max. Rate of Fuel Consumption	5,297 kwh/hr (CHP2) 5,428 kwh/hr (CHP3)
Control System	TEM related with COMAP
Variable Heat Load	Up to 2MW
Stack Height	46m

##### 4.6.1 Gas Supplier

The gas supplier for the Energy Centre is Gazprom.

##### 4.6.2 Safety Mechanisms

The boilers and CHP engines are fitted with safety equipment which both serves to minimise residues from the combustion process, and acts as a fault output to prevent incidences such as the failure of waste gas cleaning systems.

Additionally, there is a boiler controller which continually samples flue products of combustion and trims the burner. This is in place to ensure efficient combustion within each boiler. Flue gas analysis is also regularly carried out on the CHP engines.

Furthermore, two spill kits are located in Energy Centre 1 and one spill kit in Energy Centre 2 in case of leaks or spills.

#### *4.6.3 Locations/Housing*

All the CHP engines and the boilers will be housed in one of the two Energy Centres. Energy Centre 1 (NEC 1) is the most northerly of the two Energy Centres and houses the CHP engine which has a net thermal input rating of 11MW and two boilers. This Energy Centre is a former boiler house. Each appliance in this building emits their exhaust gases through individual chimney stacks that are 29m high. Energy Centre 2 (NEC 2) houses the two CHP engines with net thermal input ratings of 4.5MW and one boiler. This Energy Centre is a modern purpose-built building. Each CHP engine and boiler plant in this building emit their exhaust gases through individual chimney stacks that are 46m high.

## 5.0 SITE PROCEDURES

Site operations are carried out as per Section 5.0. The operational procedures are deemed appropriate for the activities carried out on site.

### 5.1 Document Control

ULEC shall ensure that all documents covered by the management system are controlled in accordance with the operator's wider document control procedure.

### 5.2 Environmental Permit Reporting

ULEC shall ensure all reporting required by the environmental permit is carried out in accordance with the criteria and at the frequency stipulated within *EPR-OP04 Environmental Permit Reporting*.

### 5.3 Corrective Action

ULEC shall ensure any need for corrective action is carried out in accordance with the criteria and frequency stipulated within the operator's wider corrective/preventative actions procedure.

### 5.4 Environmental Incidents

ULEC shall ensure that any environmental incidents are handled in line with the operator's wider environmental incidents procedure.

### 5.5 Compliance Audit

ULEC shall ensure all documents which form part of the management system are reviewed at least annually as part of a yearly compliance audit, or sooner should one of the following situations arise:

- an environmental pollution event occurs; or,
- an element of the operation changes.

### 5.6 Management Review

ULEC shall ensure, following the compliance audit, a management review of the results of the audit are discussed by company directors on an annual basis. The management review should cover all aspects of the audit results, such as any complaints received at site or any pollution event occurring at site over the past year and put in place a management plan to remedy these situations from reoccurring. Records of the management review should be recorded and maintained.



## 6.0 POLLUTION CONTROL

### 6.1 Plant Maintenance

The site operates a strict maintenance regime and equipment used is of sufficient capacity to allow down time for routine maintenance and servicing as recommended by the manufacturer. Please refer to *EPR-OP01 Maintenance Schedule* for frequency and description of required maintenance.

No plant/equipment may be operated unless full instructions and training have been given by a person competent to do so.

Any newly arrived equipment is subject to scrutiny to ensure it meets the standards required by both the company and current legislation.

Annual and any major maintenance is reported through quarterly reports made by the Carbon and Utilities Manager to ULEC Board of Directors. All purchase orders will carry description of works carried out; signed off by Carbon & Utilities Manager where required, or by Maintenance and Engineering Hub Manager where appropriate. Works carried out by Edina and Clarke are recorded in the monthly operational reports provided to ULEC.

### 6.2 Emissions Management

Management of emissions from operations at ULEC have been covered within *EPR-B04 Emissions Monitoring and Management Plan*.

### 6.3 Accident Management

Accident prevention as well as response measures are captured with the operator's Accident Management Plan. See *EPR-B03 Accident Management Plan*.

### 6.4 Spills

On the identification of a spillage, the following actions should be taken:

1. Ensure all appropriate PPE is worn e.g. gloves.
2. Where appropriate, refer to COSHH risk assessments and Material Safety Data Sheets (MSDS's).
3. Use the available spill kit within the site depot or on the transport vehicles to contain the spillage.
4. Prevent materials from entering drains or water courses.
5. Absorb the spillage with either the pads or granule packs found within the spill kit, where required.
6. Use the available shovel and brush to collect the material and place within the spill kit bin.
7. Notify a Manager of spillage and use of the spill kit.
8. The Manager will ensure that the spill kit equipment is replenished accordingly.
9. The Manager will arrange the disposal of the collected spilled material and retain any waste transfer or consignment notes.

All spillages will be dealt with immediately. All plant and equipment used on site will be

operated and maintained in line with *EPR-OP01 Maintenance Schedule*, with the objective of preventing environmentally harmful leaks and spills.

## 7.0 CONTINGENCY MEASURES

If a major incident occurs on site, that prevents the operation of the Energy Centres, the site will put the following procedures in place:

- The incident shall be recorded in the ULEC risk register. This is reviewed quarterly and escalated to the ULEC Board once per annum.
- The Environment Agency shall be notified of the incident.
- If the incident occurred because of a fault in the system, the system shall be checked and tested prior to reuse.



## 8.0 RECORDS

ULEC shall maintain records on site in line with *EPR-OP03 Recording Procedure* as well as the following sections.

### 8.1 Monitoring

ULEC shall undertake the monitoring as specified within *EPR-OP02 Monitoring Schedule*. ULEC shall maintain records of all the monitoring required, including records of the taking and analysis of samples, instrument, measurements, calibrations, examinations, tests and surveys and any assessments or evaluations made on the basis of such data.

### 8.2 Site Diary

A Site Diary shall be maintained and retained in the site office. It shall record visitors, non-routine activities and other incidents. The Site Diary should be checked periodically by the Permit Holder to ensure its correct use. The Site Diary shall be readily available for inspection. Examples of activities recorded in the site diary include:

- Names and times of technically competent managers on site,
- Any accidents resulting in injury,
- Any incident of fire,
- Any incident of spillage,
- Any incidents causing pollution to the environment, harm to human health or detriment to the amenities of the locality,
- Any machinery breakdown,
- Any deposit of unsuitable waste at the site,
- Incidence of litter, dust, pest, odour and noise problems,
- Results of various inspections for litter, odour, noise, birds, pests etc.

### 8.3 Water, Gas and Electricity Usage

The water, gas and electricity usage in the Energy Centre will be monitored using AMR metering which is fed through the BMS and eSight Energy management software.

The water, gas and electricity usage will be checked at least monthly (AMR daily reads). The water usage will also be checked via ADSM contracted services. A maintenance term contractor will record the gas reads, the Energy Services team will record electricity usage via BMS and eSight and a utility supplier software and the water usage will be recorded using the ADSM portal.

All parameters will be recorded on the eSight and ADSM portal.

### 8.4 Training Records

Training records, including gas safe and other competency records, are maintained through systems for which the Head of Engineering and Maintenance Operations is responsible. Contractors will require a site induction before going on site.

## 8.5 Complaints

All complaints made to ULEC shall be dealt with in a professional manner and will be fully investigated, with appropriate action taken as necessary. All environmental complaints will be fully investigated.

The operator shall record the following:

- Name and contact details of the person who expressed concern or made a complaint;
- Specific subject(s) of the concern or complaint;
- The source / location of where the complaint comes from;
- Date and time communicated to the producer and name of the person to whom it was communicated;
- Nature and date(s) of any actions and checks and who carried them out;
- Nature and date of any response to the person who expressed a concern or made the complaint; and
- Name of the person who communicated the response.



18 Manor Square, Otley, LS21 3AY

01943 468138

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