

# OUTLINE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN: PROPOSED BATTERY ENERGY STORAGE SYSTEM

CELLARHEAD SUBSTATION | WETLEY ROCKS



**PREPARED BY**



Sirius Planning | 4245 Park Approach |  
Thorpe Park | Leeds | LS15 8GB

**PREPARED FOR**



Sirius Renewable Energy | 4245 Park  
Approach | Thorpe Park | Leeds | LS15 8GB

---

**REPORT NUMBER**

SRE1138/CEMP

**REPORT STATUS**

FINAL

**REVISION**

-

**REPORT DATE**

January 2022

---

**WRITTEN & PREPARED BY**

Dan Elvin | Senior Planner

---

**REVIEWED & APPROVED BY**

David Baker | Development Director

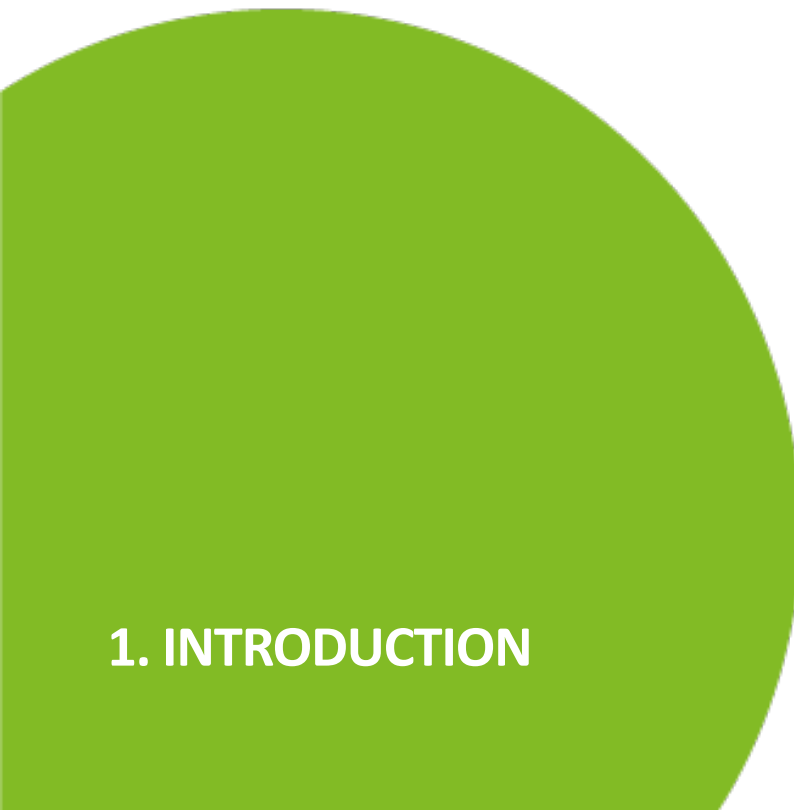
---

**AUTHORISED BY**

*Sirius Planning*

## CONTENTS

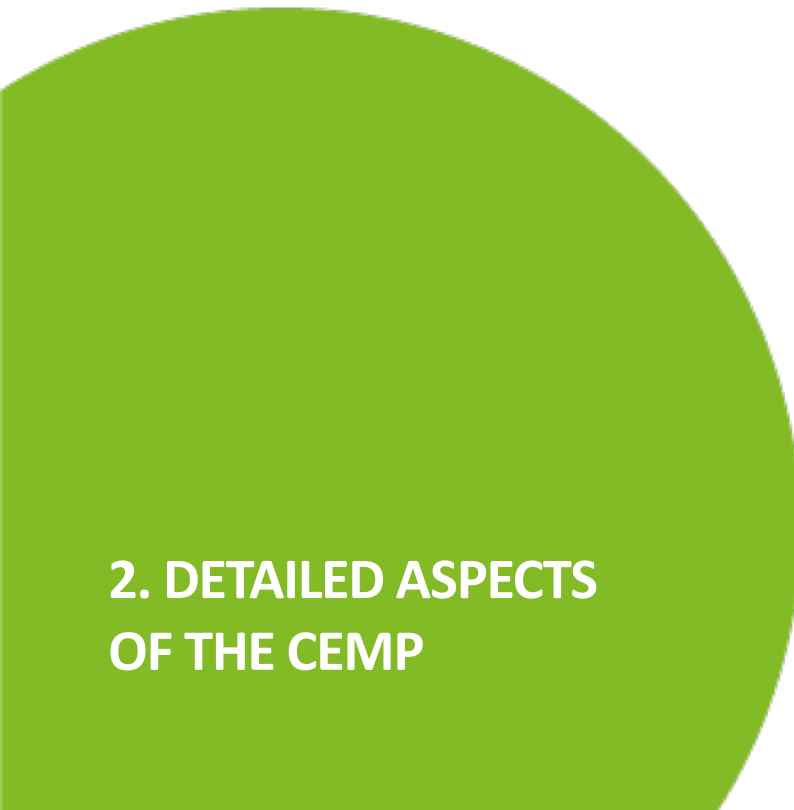
|                                           |   |
|-------------------------------------------|---|
| 1. INTRODUCTION .....                     | 4 |
| 1.1 INTRODUCTION .....                    | 5 |
| 2. DETAILED ASPECTS OF THE CEMP .....     | 6 |
| 2.1 SAFETY AND SECURITY .....             | 7 |
| 2.2 NOISE.....                            | 7 |
| 2.3 AIR QUALITY .....                     | 7 |
| 2.4 ECOLOGY .....                         | 7 |
| 2.5 LIGHTING.....                         | 8 |
| 2.6 GROUND CONDITIONS.....                | 8 |
| 2.7 CONTAMINATED LAND .....               | 8 |
| 2.8 WATER POLLUTION .....                 | 8 |
| 2.9 WASTE .....                           | 8 |
| 2.10 LOCAL COMMUNITY RESPONSIBILITY ..... | 9 |



## 1. INTRODUCTION

## 1.1 INTRODUCTION

- 1.1.1 This Outline Construction Environmental Management Plan (CEMP) has been prepared by Sirius Planning on behalf of Sirius Renewable Energy, in support of a planning application for a 280MVA battery energy storage system at Cellarhead, Rownall Road, Wetley Rocks.
- 1.1.2 This Outline CEMP covers the management of construction activities across the estimated 18 month construction period. The CEMP will address the following issues associated with construction works:
- Safety and Security;
  - Noise;
  - Air Quality;
  - Ecology;
  - Lighting;
  - Ground Conditions;
  - Contaminated Land;
  - Water Pollution;
  - Waste;
  - Local Community Responsibility.
- 1.1.3 The Outline CEMP will be monitored regularly throughout the duration of the works to ensure best practice is followed.



## **2. DETAILED ASPECTS OF THE CEMP**

## 2.1 SAFETY AND SECURITY

- 2.1.1 An appointed Site Manager will have the responsibility of Health and Safety on site. Duties may include providing a daily update to a Health and Safety Board identifying potential hazards. All visitors to the site will be required to sign in and adhere to on-site Health and Safety practices. All personnel working on site will be required to wear the appropriate Personal Protective Equipment (PPE) including a high visibility vest or jacket, steel toe cap boots, and a hard hat as well as any other activity-specific safety wear.
- 2.1.2 Security fencing will surround the site throughout the 40 year operational life of the proposal. It is proposed to erect this fence at the start of construction works to ensure that the site is secure during this phase.

## 2.2 NOISE

- 2.2.1 It is proposed that deliveries of materials will be made during the following hours:
- Monday to Friday: 0730 to 1800;
  - Saturdays: 1000 hours to 1300; and
  - Sundays and Bank Holidays: No deliveries.
- 2.2.2 Deliveries will be carried out within the hours above. Under exceptional circumstances, both working and deliveries outside of these hours may be required.
- 2.2.3 Any additional noise arising as a result of construction activities will largely be due to vehicle movements, and from plant and machinery operating on site. Due to the distance between the site and any nearby residential properties, and the limited number of properties between the site access and the A52 to the south (via the proposed construction traffic route) it is not anticipated vehicle movements will result in a significant adverse noise impact.

## 2.3 AIR QUALITY

- 2.3.1 Dust can be created from the movement of construction traffic and from general construction activities and particles can be carried by prevailing winds. Construction traffic carrying loose material will be covered to reduce dust generation. Weather and ground conditions will be observed on a daily basis throughout the construction phase. In the event that construction activities are required to take place during periods of high wind and dry conditions a water bowser will be provided for dust suppression on site if necessary and areas of concern can be 'dampened down' to prevent dust.
- 2.3.1 Measures will be taken to control air emissions. Plant and equipment will be maintained in accordance with manufacturers specification. All site personnel will be advised as part of the general induction of the requirement to minimise air emissions, vehicles and construction equipment shall be switched off when not in use (where practicable) to avoid unnecessary emissions and construction equipment will be properly maintained to ensure exhaust emissions comply with the appropriate regulations.

## 2.4 ECOLOGY

- 2.4.1 Site staff will check for protected species on site before construction work commences in accordance with any recommendations arising from the ecology assessment. The project ecologist will be contacted immediately if the presence of protected species is suspected at any time.
- 2.4.2 It is illegal to cause the spread of invasive plants (e.g Japanese Knotweed, Himalayan Balsam etc). If invasive plant species are discovered on site, the project ecologist will be contacted

immediately for specialist advice.

## 2.5 LIGHTING

- 2.5.1 To suit the rural setting of the site, it is envisaged that the lighting scheme will be low level and minimal and incorporate light units of low lux levels around the entrances to the containers and transformers. Lights will be on infrared motion activated sensors and will shine downwards to avoid light pollution and disturbance to nocturnal animals. The lights will only be activated by human presence, and will not be activated by animals.
- 2.5.2 During construction works it may be necessary to utilise temporary floodlights during hours of darkness. These will only be in operation during normal construction hours or in the event of an emergency.

## 2.6 GROUND CONDITIONS

- 2.6.1 The construction and maintenance of the BESS is to be undertaken in a way that seeks to avoid damage to the soils on site. The access roads will be constructed first (together with the security fencing).
- 2.6.2 Minor civil engineering works will be required for the installation of the sub-station. Localised excavation works will be required for cable trenches and the bases for the containers will be dug to a depth of c.0.3m, before being filled with crushed aggregates.
- 2.6.3 Engineering works will be required to dig the infiltration basin to be sited in the north western corner of the site, and to dig the drainage ditches either side of the site access.

## 2.7 CONTAMINATED LAND

- 2.7.1 The existing site comprises agricultural fields. There is no known previous use to suggest brownfield land or contamination will exist. It is therefore reasonable to assume that none of the land to which the proposal relates is contaminated.

## 2.8 WATER POLLUTION

- 2.8.1 There are no bodies of water on the site and it is not anticipated that any materials with the potential to cause pollution to local watercourses will be brought on to the site.
- 2.8.2 There is a reservoir located to the north east of the site (alongside the eastern boundary). Due to the topography of the site and the distance between the reservoir and on-site activities (c. 25m) it is not considered that any on-site activities have the potential to contaminate waters within the reservoir. Stockpiles of materials will not be located in proximity of the off-site reservoir. Materials will be stored in a designated area.
- 2.8.3 Wheel washing can impact on local watercourses. The site compound, parking area and turning areas are sited at least 10m from watercourses, drainage ditches and any bodies of water.
- 2.8.4 Foul water associated with the welfare cabin on site will be collected on a regular basis by the supplier of the cabin and disposed of in an appropriate manner via their usual means via a licenced contractor.

## 2.9 WASTE

- 2.9.1 Waste will be segregated, stored and disposed of at an appropriate waste management facility. Good operating practice and housekeeping will ensure that no litter will be allowed to blow across the site.

2.10 LOCAL COMMUNITY RESPONSIBILITY

- 2.10.1 The Site Manager will manage and co-ordinate on-site environmental activities and act as a point of contact for local residents. Liaison between the Site Manager and local residents will seek to ensure that any concerns are resolved quickly and efficiently.
- 2.10.2 The Site Manager will be responsible for briefing the Construction Environmental Management Plan to construction staff; fulfilling environmental obligations on site; attending to any on-site environmental incidents or concerns; reporting and monitoring any environmental incidents; and ensuring waste management procedures are followed.

