

Verity Allen

Subject: FW: CEMP etc for NYM_2023_0454
Attachments: CEMP.pdf; Habitat creation and management plan Solar array.docx; SNG24_WBR_V2.1-merged.pdf

From: Young, Petra
Sent: Thursday, April 25, 2024 11:31 AM
To: Emily Jackson
Subject: CEMP etc for NYM_2023_0454

Hi Emily,

Please find attached the CEMP for the solar panels for A Room That Sings.

We can confirm that we have contracted DigVentures to carry out a watching brief and will produce a report similar to the one attached for the adjacent art installation.

Please let me know if you require any additional information or if there is anything else I need to do.

We hope to start the works as soon as possible.

Kind regards

Petra

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Forestry England

NYMNP

25/04/2024

Construction Environmental Management Plan

Solar Array - 'A Room That Sings' Cross Cliff

April 2024
Forestry England



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1 Introduction

1.1 This Construction Environmental Management Plan (CEMP) has been produced by Forestry England (the applicant) for the works associated with the installation of ground mounted solar array at Cross Cliff, Dalby Forest. This will supply power to 'A Room That Sings' Art installation covered by a previous planning application, NYM/2021/0822/FL.

1.2 The purpose of the CEMP is to ensure that any potential environmental effects associated with the road construction are minimised during the works and to provide a framework which will ensure that environmental legislation is complied with. The CEMP provides information on the overarching environmental principles and procedures which will be adhered to throughout the course of the works and is supported by the following documents:

- [Appendix 2 Solar Array Location Plan](#)
- [Appendix 3 SOLAR Panel drawing-01](#)
- [Appendix 6 Solar array ecological assessment 2023](#)
- [Appendix 4 Design statement Solar Panels Singing Room](#)

1.3 It is estimated that the works will take approximately 2 weeks to complete.

2 Project overview

2.1 The agreed planning application, NYM/2021/0822/FL included a solar array. The location of the array had to be moved due to the proximity of an underground gas main. In agreement with the utilities company it was moved to the current proposed location. Its purpose is to supply power to 'A Room That Sings' Art Installation in line with the environmental objectives of the project.

3 Construction programme and project timescales

3.1 A detailed construction programme will be confirmed with the contractor to accommodate the environmental and ecological constraints.

3.2 Construction is planned to commence in May 2024. The construction is planned to take approximately 2 weeks.

4 Roles and responsibilities

Environmental policy

4.1 The appointed contractor will be required to minimise consumption of natural resources and materials, to maximise recycling and to limit pollution and disturbance in the course of the works. The following measures will be encouraged:

- Minimise the use of natural resources through conserving energy and ensuring efficient running and maintenance of equipment and machines.
- Seek methods of working that minimise materials usage and limit waste.
- Minimise environmental disturbance (noise, dust, pollution) and control and treatment of discharges where appropriate.
- Encourage environmental awareness of all personnel.

4.2 The appointed contractor will also be required to ensure that industry Codes of Practice, Government Guidelines and appropriate Regulations are adhered to. Where relevant, these are specified within this document.

Ecology

4.1 The purpose of the CEMP is to minimise the effects of the construction on the environment, public access, and any ecologically sensitive areas.

4.2 The area for the solar array falls within the area being cleared for the Biodiversity Net Gain, as assessed by the FE Ecologist and agreed with NYMNP

4.3 The frames for the panels will be fixed by means of ground screws, to remove the need for any concrete foundations.

4.4 The timings of the construction will be during June.

Waste management

4.5 At this stage there are no planned waste arisings from this work, that will not be used for reinstatement of the borrow pit.

4.6 In addition to any waste generated as a direct consequence of the works, waste generated by site personnel will also need to be carefully managed.

Fuel and other materials storage

Fuel

4.7 Where re-fuelling of plant is required, this will take place in a designated area away from potential contamination of a water course, within the FE forest block.

4.8 Storage of fuel on site will be in a locked compound in a bunded tank away from water courses. A spill kit with sand, earth or other commercial products will be located close to the refuelling area with a fire extinguisher in each machine.

Noise and vibration

4.9 Noise and vibration associated with the works will be predominantly associated with vehicles and plant equipment.

4.10 The nearest property is 350m away, but the contractor will still implement the best practicable means to minimise disturbance, including:

- the use of low vibration methods where practicable.
- the use of silenced equipment and machinery.
- the use of modern plant which emits lowest levels of noise and vibration where possible.
- careful selection of equipment location.
- undertaking regular plant maintenance.

Dust

4.11 Its not anticipated that dust will be an overriding issue due to the time of year of the works, following on from Winter. If dust is a concern during construction, dust suppression with water would be implemented.

Flood risk assessment

4.12 The site does not fall into any flood risk zones.

Surface water drainage and water pollution prevention

4.13 The small area of hard standing under the solar panels will drain to the edges and onto the surrounding ground.

4.15 The key good practice measures associated with prevention of water pollution which will be implemented are set out below.

- Works will be planned and managed carefully, detailed within the contractors Method Statements to ensure that the risk of pollution incidents is reduced as far as possible.
- Procedures will be adhered to for storage of fuel, oils and other potentially contaminating materials as detailed in paragraphs 4.7 to 4.8 above.
- A plan for dealing with spillage incidents will be designed by the appointed contractor prior to the works commencing and this will be adhered to should any incident occur, reducing the effect as far as practicable.
- Within the construction site and on all operating plant, there will be the provision of spill containment equipment including absorbent material.

4.16 Any pollution incidents will be reported to Forestry England as soon as it is safe and possible to do so.

Vehicle and plant operation and maintenance

4.17 Any plant being operated on site (i.e., excavators, dumpers) would be required to have a current Certificate of Thorough Examination and Certificate of Conformity.

4.18 Any vehicles and plant onsite will be required to be operated by competent, certified personnel.

Working hours

4.19 Site hours are anticipated to be 07.30am to 17.00pm Monday to Friday.

Programme of works

4.20 The works are anticipated to last for 2 weeks. If weather conditions are poor (wet), works may be halted temporarily to protect ground conditions.

Health and safety

4.21 The site is adjacent to an official cycle route and close to a PROW. There will be appropriate Chp8 signage to advise of passersby of the work site and the site will be fenced off from the public. Where the duct is to be placed under the forest road, the work will be carried out with a banksman to warn the operator of approaching members of the public.

4.22 All personnel working onsite will be given a site induction or 'toolbox talk' which will discuss health and safety and environmental issues associated with the works. This will cover emergency procedures, site waste management, identifying site risks, discussing required Personal Protective Equipment (PPE) and an overview of any other housekeeping measures required when working in remote locations. The induction will be carried out by the appointed contractor. A record of all site inductions will be maintained by the appointed contractor.

4.23 Each site visit by Forestry England staff will generate a site visit report form, which will record all persons present on site, whether contract conditions are being met, work progress, items discussed and any actions arising. Completion of actions arising will be noted on the following site visit report form.

4.24 Any safety incidents will be reported to Forestry England as soon as it is possible.

4.25 Specific health and safety risks, control measures and requirements associated with the specific works required will be detailed in the method statements and risk assessments carried out by the contractor upon contract award.

5 Implementation, Managing, Monitoring, Compliance and Reporting

5.1 Communication throughout the works will be essential for the implementation of the CEMP and the safe and efficient running of the project. Formalised communication and implementation of the CEMP will consist of the site induction, toolbox talks and site visit reports (as detailed in Section 4). The induction and toolbox talks will include specific information in relation to any environmental sensitivities which have been identified. Any new issues arising or suggested modifications to working practices will be raised at site visit meetings and the decisions and rationale for these will be recorded on site visit report forms. Personnel will be encouraged to communicate closely to ensure that activities run smoothly throughout the duration of the works programme.

5.2 The appointed contractor will be responsible for managing, monitoring and compliance with the CEMP and will report to the Forestry England Project Manager. Should any alterations to the CEMP be required, this will be documented and communicated to all personnel through briefings, safety alerts and emails as appropriate.

The room that sings – Solar array, Dalby Forest. NYM-2021-0822-FL



Biodiversity Net Gain - Habitat creation and management plan.

Target Habitat:		Scrub	
Condition Assessment Criteria	Targeted	Creation approach	Management Approach
<p>A The parcel represents a good example of its habitat type – the appearance and composition of the vegetation closely matches its UKHab description (where in its natural range).</p> <ul style="list-style-type: none"> - At least 80% of scrub is native, - There are at least three native woody species, - No single species comprising more than 75% of the cover (except hazel <i>Corylus avellana</i>, common juniper <i>Juniperus communis</i>, sea buckthorn <i>Hippophae rhamnoides</i> or box <i>Buxus sempervirens</i>, which can be up to 100% cover). 	Yes	<p>The area will be cleared of stock trees.</p> <p>Mixed native scrub will be planted in small mixed species groups at 1m spacing. Bare rooted or cell grown saplings will be used. The area will be screefed and each plant pit planted. This will be done between November 2024 and March 2025. Saplings will be protected with vole guards.</p> <p>Species planted will be an mix of hawthorn, blackthorn, hazel with some guelder rose and dog rose throughout.</p> <p>Groups will be spaced a minimum 2m apart to allow open space and scrub edge habitat between. This area will be sown with an appropriate wild flower seed mix.</p>	<p>The scrub trees will be monitored annually to assess success of establishment for the first 3 years and dead trees will be replaced as required.</p> <p>Monitor deer browsing and if excessive then a proportion of the scrub will be protected with deer guards to ensure quicker establishment.</p> <p>To assist successful establishment removal of pernicious weeds such as thistles or docks. These will be monitored and managed by spraying or topping as required.</p> <p>The scrub will be maintained at a height of less than 5m tall and any unplanted areas will be managed to retain open space and scrub edge habitat in between planted groups. All cutting works will be done outside of bird nesting season. Arisings will be stacked into habitat piles in the adjacent wood.</p> <p>Removal of spiral guards for recycling 5-10yrs after planting.</p> <p>The herb rich verge already present on site will be maintained free of scrub and will be cut on an annual basis in line with current management practices.</p>
B Seedlings, saplings, young shrubs and mature (or ancient or veteran) shrubs are all present.	Yes	N/A	<p>Scrub generally takes 15 years to reach maturity. At year 10 a cutting regime will be implemented to coppice/ cut back a section of the site every 3 years to ensure a mix of young and mature scrub is present. Species amenable to coppicing such as hazel will be coppiced, other species will be thinned or reduced in size to reduce density and increase structural diversity among the</p>

				scrub. All cutting will be done outside of bird nesting season. Arisings will be stacked into habitat piles in the adjacent wood.
C	There is an absence of invasive non-native species (as listed on Schedule 9 of WCA) and species indicative of suboptimal condition make up less than 5% of ground cover.	Yes	No invasive species are currently present on site.	The monitoring will include a check for invasive species – initial monitoring annually for the first 3 years and then every 5 years. If invasive species are recorded as present appropriate action to control and eradicate the species will be taken. Action depends of best practice guidelines for the species present.
D	The scrub has a well-developed edge with scattered scrub and tall grassland and or forbs present between the scrub and adjacent habitat.	Yes	The scrub to be planted will create and ecotone between the woodland and existing species rich verge. The saplings will be planted to leaving open space and edge habitat in between and a scalloped edge will be created alongside the verge to diversify microclimates available for invertebrate species.	Encroachment of scrub onto the herb rich verge will be monitored and managed as required. Any unplanted areas will be managed to retain open space and scrub edge habitat in between planted groups
E	There are clearings, glades or rides present within the scrub, providing sheltered edges.		Groups will be spaced a minimum 2m apart to allow open space and scrub edge habitat between. This area will be sown with an appropriate wild flower seed mix.	Any unplanted areas will be managed to retain open space and scrub edge habitat in between planted groups. Encroachment of scrub onto the herb rich verge will be monitored and managed as required All cutting works will be done outside of bird nesting season. Arisings will be stacked into habitat piles in the adjacent wood.