

# Hazelmead Community Energy

Battery Installation - Invitation to Tender





**Project Background** Hazelmead Community Energy (HMCE) has been set-up to deliver a solar PV microgrid for the Hazelmead Community Housing Scheme that comprises 54 properties built to AECB standards in Bridport, Dorset. The scheme has full planning and is being developed by Bridport Cohousing (http://bridportcohousing.org.uk/) and Bournemouth Churches Housing Association. This tender package covers the battery elements of the work and other packages are being tendered in parallel.

## Tender Timelines The tender timelines are as follows:

- Tenders Out: 17<sup>th</sup> June 2020
- Tenders Back: 2nd July 2020

### **Hazelmead Development Timelines**

- Finalising Main Contractor/ Funding Sep 2020
- Expected Battery installation March 2021

**Other Details** The selection of the successful contractor will be based on an objective assessment of the received quotes with a 40% weight given to cost, 20% to quality and 40% to confidence.

Please send the tender to damon@cepro.co.uk

#### General/background

- This tender is for delivery of a fully functional Battery Energy Storage System as part of a microgrid. The whole development is treated as a communal private grid and is designed accordingly.
- Initial design work has been undertaken to create the below specification and design.
- Ensure compliance with all CDM & HSSE & Building Regs & Appropriate Industry Standards
- Respondents MUST be accredited partner installers from their chosen battery system manufacturer

#### Specification of Battery Energy Storage System

- We require a system with minimum 500kW/1110kWh.
- You must complete the full list of work activities found in the manufacturers "Construction Checklist"
- Suitable GRP Controls cabinet Novated supplier EnclosureTec
- Suitable G99 relay with integral battery meter Novated supplier Macklins
- Equipped with revenue generation FFR controls cabinet eg. A Limejump control panel
- Three phase DB cabinet for local power distribution eg. Schneider Acti 9
- Battery system fully connected to the (out of scope) main distribution board
- Provision of G99 testing on site (DNO to witness) and compliance certificates and labels
- All online monitoring and metering connected and working properly
- All electrical elements required to pass the manufacturers commissioning process successfully

#### Out of scope or by others

- Provision of concrete pad/plinth appropriated specced and sized by others
- DNO formal Export connection offer/agreement by CEPRO
- Installation of the grid connection and Schneider main distribution board by others
- Site O+M manual by CEPRO
- G99 witnessing by WPD

Items requested in the quote

- A pricing spreadsheet has been provided. Please adhere to this format when responding.
- Please price on the basis that the installation would be carried out in March 2021
- Exclude the cost of any work to support the WPD grid application in your main installation price
- As necessary provide any supporting design information bearing in mind the specification.
- Provide details of any equipment you are specifying and warranties where this differs or is not provided by this specification
- Please provide details of your standard payment schedule e.g. deposit etc

Other/ Further Details

- It is expected that the contracting would be completed including initial deposit for battery purchase by October 2020.
- Your client will be Hazelmead Community Energy Limited (reg 11917573).



#### Battery enclosure fencing (out of scope of this contract)





# Example project





Figure. Battery Controls Equipment

Here we see an example installation. Note the following differences to the Hazelmead spec:

- 1. This system is 100/170 kW/kWh
- 2. Fence arrangement differs
- 3. Plinth arrangement differs
- 4. Main DB is out of scope of this package

This project took 10 person days on site to install

