**CENTRICA DISTRIBUTED ENERGY & POWER (DE&P)**

**CORNWALL LOCAL ENERGY MARKET PROJECT**

**Pre-qualifying Questionnaire - technical and economic modelling, analytical and software support to the Cornwall Local Energy Market Project**

**Background**

Centrica plc’s Cornwall Local Energy Market project (LEM) is a part EU funded pioneering initiative involving the development of a virtual marketplace that will trial providing participants (homes and businesses) with a platform to buy and sell energy and flexibility both to the grid and the wholesale energy market. The project will also be installing new generation and energy storage technology, which will allow us to explore how individuals and businesses interact with the technology.

The £19m three year trial is being delivered in partnership with the local distribution network operator Western Power Distribution, alongside National Grid and University of Exeter. It is being funded by Centrica and the British Gas Energy for Tomorrow Fund alongside a £13m grant from the European Regional Development Fund (ERDF).

We believe this hugely exciting project will provide major findings that can inform the Government, National Grid and regulators about how the UK can best develop new and effective markets for flexible energy. Further details, including a short film, are available on our website:  [https://www.centrica.com/about-us/what-we-do/distributed-energy-and-power/building-new-energy-future.](https://www.centrica.com/about-us/what-we-do/distributed-energy-and-power/building-new-energy-future)

**Requirement**

Centrica plc wishes to appoint a specialist energy consultancy that shall provide expert support to deliver Technical Modelling, Analysis and Software Engineering support for the residential project for the entirety of the programme (until March 2020). This Pre Qualifying Questionnaire is intended to identify suitable consultancy firms to invite to submit proposals for the tender.

The process will include selecting the specific properties for the residential DSR[[1]](#footnote-1) project based on specific knowledge of Cornwall’s property profile, actively involved in supporting the procurement of microgeneration and storage technology for residential application, manage and utilise monitoring data collection from all residential properties, modelling of data to inform the project and wider business with different use case scenarios, and collaboration with other work streams within the project and wider business units.

The outcome of this work will assist the project in delivering the outputs and demonstrating the learning outcomes to the funder and Centrica plc, along with providing evidence for future value propositions in the residential sector.

The Contractor should be able to commence work in August 2017.

**Required outputs**

**The Contractor will be responsible for:**

1. showing evidence of experience in engaging with generation and storage products for residential application, and able to bring extensive contacts within this sector to the project.
2. having skills in engineering and economics along with the ability and experience to provide economic modelling and analysis alongside technical applications in conjunction with relevant industrial experience.
3. having had experience of working on similar projects – working with residential participants and installing microgeneration and storage technologies along with monitoring data collection and analysis.
4. being prepared to work alongside the technical team and within the timescales of the Cornwall LEM team.

**Pre-Qualification**

Responses to the following Pre-Qualifying Questionnaire are requested to be submitted by

12:00, Wednesday 5 July 2017.

**PQQ Returns to:**

[Kim.Worthington@centrica.com](mailto:Kim.Worthington@centrica.com)

Successful Pre-Qualification Applicants will then be provided an Invitation to Tender, following receipt of a signed NDA that will be issued by Centrica plc.

**Please do not send any other information with this PQQ. We will request this at ITT stage.**

**Evaluation**

Centrica reserves the right to interview the provisionally selected firm/s and amend or alter the process as it sees necessary, subject to giving reasonable notice.

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| |  | | --- | | **COMPANY DETAILS** | | **Company Name** | | **:** | | **Registered Address** | | **:** | | **Company Registration Number** | | **:** | | **Name of Proposed Contracting Entity** | | **:** | | **Address** | | **:** | | **Postcode** | | **:** | | **Contact Person** | | **:** | | **Telephone Number** | | **:** | | **Position** | | **:** | |

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| |  |  |  | | --- | --- | --- | | **CONFLICTS OF INTEREST** |  |  | | **Before considering submitting any proposal, please ensure you would be sufficiently able to act from a conflict of interest perspective noting that relevant third parties include National Grid, Western Power Distribution, Exeter University and ECCO International. We are willing to discuss any issues around this as necessary and, where possible, will seek to accommodate any proposals you have for managing potential conflicts.   Please confirm Y/N if you have any potential conflicts with the following parties in relation to supporting Centrica on the Cornwall Local Energy Market project:** | **YES** | **NO** | | **National Grid** | □ | □ | | **Western Power Distribution** | □ | □ | | **Exeter University** | □ | □ | | **ECCO International** | □ | □ | | **Where you have answered ‘Yes’ to any of the above, please give details of your intended plans for managing any such conflicts:** |  | | | **Residential projects** | **YES** | **NO** | | **Does your organisation have relevant demonstrable experience of working with residential projects installing microgeneration or storage technology in homes in the UK?** | □ | □ | | **Please provide two brief examples of relevant experience (no more than 50 words per example. Bullet points are acceptable)** |  |  | | **Technical expertise** | **YES** | **NO** | | **Does your organisation have relevant demonstrable experience in providing technical expertise in relation to procuring monitoring equipment, microgeneration and/or storage technology for residential application?** | □ | □ | | **Please provide two brief examples of relevant experience (no more than 50 words per example. Bullet points are acceptable)** |  |  | | **Does your organisation have relevant demonstrable experience in providing technical expertise in relation to installing monitoring equipment, microgeneration and/or storage technology for residential application?** | □ | □ | | **Please provide two brief examples of relevant experience (no more than 50 words per example. Bullet points are acceptable)** |  |  | | **Modelling** | **YES** | **NO** | | **Does your organisation have relevant demonstrable experience in providing modelling for residential demand side response?** | □ | □ | | **Please provide two brief examples of relevant experience (no more than 50 words per example. Bullet points are acceptable)** |  |  | | **Does your organisation have demonstrable experience in providing modelling to demonstrate C02 savings, for a number of technologies for residential application?** | □ | □ | | **Please provide two brief examples of relevant experience (no more than 50 words per example. Bullet points are acceptable)** |  |  | | **Software** | **YES** | **NO** | | **Does your organisation have relevant demonstrable experience in providing software engineering to be able to write and send command signals to electrical items e.g appliances?** | □ | □ | | **Please provide two brief examples of relevant experience (no more than 50 words per example. Bullet points are acceptable)** |  |  | | **Does your organisation have demonstrable experience of solution architecture, including the technical integration of different technology platforms and software development expertise to deliver working solutions?** | □ | □ | | **Please provide two brief examples of relevant experience (no more than 50 words per example. Bullet points are acceptable)** |  |  | |

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| **References** |
| **Please provide the names and contact information for two referees who can corroborate the experience you have listed above** |
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| |  | | --- | | **DECLARATION** | | The preceding questions have been completed using the best and most accurate information available at time of the reply and it is agreed that all responses can be substantiated, if required to do so. It is agreed that the information supplied in this questionnaire may subsequently be used as grounds to exclude or remove the Applicant from the tender process. | | Signed: ………………………………………………….. | | Authorised Signature ………………………………………………….. | | For and On Behalf of: ………………………………………………….. | | Position of the Applicant: ………………………………………………….. | | Date: ………………………………………………….. | |

1. Demand Side Response [↑](#footnote-ref-1)