



CENTRICA DISTRIBUTED ENERGY & POWER (DE&P)

CORNWALL LOCAL ENERGY MARKET PROJECT

Invitation to Tender to provide technical and economic modelling and analytical support to the Cornwall Local Energy Markets Project

Please see end of this document for instructions on how to download the full Invitation to Tender. This will be released from Tuesday 30 May 2017 onwards.

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. We 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 Exeter University. 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 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 [here](#).

Requirement

Centrica wishes to appoint a specialist energy business that can provide expert support for Centrica to deliver Technical Modelling and Analysis for the residential project for the entirety of the programme (until early 2020).

The process will include selecting the specific properties for the residential DSR¹ 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 business case scenarios, collaborate with other individuals within the project and wider business.

The outcome of this work will assist the project in demonstrating the learning outcomes to the funder and Centrica, along with providing the business case for ongoing residential DSR projects along with insight into potential residential propositions.

¹ Demand Side Response



Required outputs

The Team

The supplier team will:

1. show evidence of experience in engaging intimately with similar suppliers,
2. have an engineering background with the ability and experience to provide economic modelling and analysis, along with relevant industrial experience.
3. have had experience of working on similar projects – working with residential participants and installing microgeneration technologies along with monitoring data collection and analysis.
4. Be prepared to work alongside the technical capabilities and timescales of the Cornwall LEM team.

Tasks and Deliverables

Task	Deliverable	Completed by
1. Property Specification and Selection		
Specify the homes for Cornwall LEM	Using property data and modelling tools generate a hierarchy of properties and technology mix that maximise the Cornwall LEM objectives	Aug 2017
2. Procurement support for technology purchase and installation		
Actively involved with the procurement process for technology - input into the PQQ & ITT specification for each technology	Will provide feedback to PQQ and ITT specification	July-Aug 2017
	Prepare answers for technical queries during the procurement process	Aug-Oct 2017
	Respond to any questions that may arise from companies that have been invited to tender throughout the process, within 48 hours	Aug-Oct 2017
Assess the responses from a cost, technical, software integration and compatibility and delivery perspective	Will assess and score all tender responses along with other members of Cornwall LEM team	Sept-Oct 2017
3. Installation oversight and technical specifications		
Will be technical link for installers	Will be able to respond to and provide clarification on any technical queries throughout	Aug 2017 – Dec 2019



	the process of installation, in relation to Cornwall LEM	
4. Data Monitoring, Modelling and Reporting		
Monitoring & Data collection	Ensure monitoring equipment is installed and transmitting data to provide constant data collection	Nov 17 – Dec 2019
	Manage all data and regular collation and reporting for Cornwall LEM	Nov 17 – Dec 2019
Modelling of data	Significant data modelling submitted for the project and to the wider business. Modelling to demonstrate CO ² savings, in depth residential scenarios demonstrating effectiveness of DSR, proposed business cases that can be submitted to the wider business to develop new business opportunities	Aug 17 – Dec 19
Collaborate with other professionals to define data exchange standards where any gaps	Specifically working very closely with colleagues within Connected Homes including HIVE and MyEnergyLive, along with other areas including IS	Aug 17 – Dec 19
Help design, document and maintain system processes	Specifically with Centrica's other system processes including the Virtual Power Plant (VPP) for residential requirements	Aug 17 – Dec 19
5. Technical Support for integration of installed systems to VPP²		
Support technical integration of installed technology into VPP	Support technical solution specifications to ensure that all technology installed can receive signal to switch on/off as required	Aug 17 – Dec 19

Fees

A budget of £195,000 has been set aside for this piece of work for the project between now and completion of the project in early 2020.

Please note that travel costs for 1-2 team members to attend full day meetings in the Cornwall or Windsor (or London) areas (no more than once a month as an average) should be assumed and included within your fees.

The supplier should be available to commence work in July 2017.

² Virtual Power Plant



Tender timescales

Activity	Due Date
Advertise Invitation to Tender	Thursday 25 May 2017
ITT sent to interested parties	From Tuesday 30 May 2017 up to questions deadline date
Questions Deadline	Friday 2 June 2017 17:00
Deadline Tenders Submitted	Monday 12 June 12:00
Tender evaluations	Tues-Weds 13-14 June 2017
Winning bidder notification	Wednesday 15 June 2017
Losing bidder notifications and feedback	Monday 19 June 2017
Due diligence and background checks	Week beginning Monday 12 June 2017
Contracting	Week beginning 3 July 2017
Contract starts	Week beginning 10 July 2017
Contract ends	January 2020

Register your interest and request the full Invitation to Tender:

To register your interest please send the following details to: cornwall@centrica.com

With the subject line:

Request for ITT for Tech Modelling and Analytical Support

And the following text:

Please send me the link to the ITT for Technical and Economic Modelling and Analytical Support for the Cornwall LEM Residential workstream. My details are as follows:

Name:	
Company:	
Email address:	
Phone:	

Your link will be sent to you from Tuesday 30 May 2017 onwards up to the questions deadline of Friday 2 June.

Please do not submit any questions by email. The online procurement platform contains a questions facility.

Thank you. We look forward to hearing from you.