Utility Data Capture 2020

Overview

This proposal is for the renewal of the current metering software system and licensing for the for the year 2020-2021. This software system holds and stores half hourly kWh data for the Agency utility and metering infrastructure. There is a need to ensure continuity for license and supporting software system for the coming financial year. This is the software and licensing elements only as we are not looking to replace the hardware already installed onsite. All date from 40 meters and over a 10-year period must be included on the software.

Requirements

The requirement covers the need to continue to have a system in place to hold and collect numerous sets of site data for up to 40 meters and over a period of approx.10 years. It is this build up of data that is of concern and needs to be kept on a software system.

Any proposal must be compatible with the existing installed hardware systems which are already in place at the site. The hardware element involved installing channel loggers for the collection of pulsed output data from the site fiscal meters and sub meters. The electrical installation also included hardwiring loggers, calibrating infrastructure, wiring and consumables necessary to implement this function to NIBSC, as well as linking it to the existing BMS system. It should include the capability to automatically read and retrieve data from each meter. The dedicated hardware is already installed at the site, and we are not looking to replace any of this hardware.

It is mandatory requirement that the selected supplier must ensure that all systems are in place and actively working by 1st April 2020, in order to provide continuity with the data and reporting requirements onsite. Given the nature of the data capturing system requirement, your proposal must guarantee a seamless switchover without any lapse as the existing software holds the information required to meet reporting obligations and data sets covering the previous 10 years. Which provides the quality of data required for both comparison, analysis and corporate reporting requirements.

Current Metering Requirements:

- Main electricity meters x 2 plus one virtual meter
- Main gas meter x 1
- Main water meter x 1 (m^3 units)
- Sub electric meters x 29
- Solar PV meters x 7 plus one virtual meter

The information is sent from the existing installed hardware around site to the software system on a daily download into software. The data is required as half hourly kWh units (HH kWh). The data is automatically emailed from the NIBSC fiscal meters and from the NIBSC BMS via an automatic CSV format file of half hourly kWh data.

There is currently an existing dashboard function that should also be supported by any software again using existing systems in place.

Invitation to Quote

Quotations should include all associated costs to provide this service for one year:

1. Cost to transfer and hold approx. 10 years' worth of data from the stated meter sets
2. Cost of new software system
3. Training on the system
4. Ongoing annual cost to host the metering and software system
5. Existing hardware is to be used, but state any additional costs required for hardware
6. Support and provision of existing dashboard function
7. Any other costs associated with this proposal
8. Total inclusive cost to provide this service for one year (exc. VAT)

Mandatory Requirements:

- Contract to commence (without fail) on **1st April 2020**
- Bidders proposed software must be compatible with the onsite existing hardware and software specifications listed below
- Successful bidder must be capable and willing to work with incumbent provider to retrieve data for the preceding years from the current provider's databank.

Existing (onsite) Systems and Software Specifications:

Onsite Hardware Range:	Including the following but not limited to:
	Main meters pulsed output Elster A1700 and PRI Premier main electric meters, pulsed output meter for gas and water, 8 channel loggers, prewired cabinet, PSTN modem, pulse leads, 2 channel TX Telemetry, BMS data point connections, multi-log controller site licence, multi-log controller software
Onsite BMS System:	TREND Building Management System
Onsite operational dashboard function:	eZdash enhanced dashboard system