



HELLENIC ELECTRICITY DISTRIBUTION NETWORK OPERATOR S.A.

NOTICE OF CALL FOR TENDERS No ND-207

PROJECT: "Pilot Telemetry and Management System for the Electric Power Supply Demand by Residential and Small Commercial Consumers and Implementation of Smart Grids"

TECHNICAL DESCRIPTION OF THE PROJECT

Existing meters will be dismantled simultaneously with the installation of the new meters. The meters should come from at least two different manufacturers for each offered meter kind single phase (1P) or three phase (3P) with a minimum amount of meters / manufacturer 20%.

~~Interoperability and interchangeability between all meter types must be ensured.~~

Interoperability and interchangeability between all meter types must be ensured. Interoperability is "the ability of a system to exchange data with other systems of different manufacturers, as they are defined in article 3 of the INVITATION issue". Interchangeability is "the ability to replace a meter/communication device with another, of different manufacturer, as it is defined in article 3 of the INVITATION issue, without loss of the original functionality and without malfunction or loss of efficiency for the whole system".

For each of the aforementioned technologies, the system architecture shall include all the necessary communication media (modems, concentrators), as well as the metering data acquisition and management system.

The offer shall include all the costs for the communication links between the AMI/MDM systems and all the metering points, as well as the communication links between the primary and the backup system.

Requests for access to data of the MDM system shall have no significant or measurable impact on the normal operations of the MDM system.

It is further clarified that the Pilot Project utilize a local MDM "mirror" database that is updated in real time so that data requests do not adversely impact the scheduling or performance of the primary MDM database. This MDM mirror database shall be updated/ synchronized with the primary MDM database at least once per minute so that data can be used by other authorized systems.

The system architecture shall also feature:

- 30,000 devices (In Home Displays - IHDs) capable of displaying energy data (minimally KWh) in real time, every 30 seconds or more often..
- A consumer web portal that permits customers to access consumption/production data that is sourced from the MDM mirror database.
- A consumer mobile platform that permits customers to access consumption/production data that is sourced from the MDM mirror database.
- Support for communication via mobile infrastructure, including bidirectional texting capabilities.
- It is further clarified that HEDNO will approve the proposed technical functionalities for the development/implementation of the consumer web portal and the consumer mobile platform.

The Contractor shall submit in his offer, a plan with respect to the proposed technology as dictated by topography, network capability, meter density, and communication methodology. The Contractor, after contract award, shall review and update the initial plan using detailed data from site surveys, where required, to improve the initial design plan. Evaluation of the original design and any suggested modifications shall be reviewed and approved by HEDNO prior to any further works.