Date: 9th of September 2019

REQUEST FOR INFORMATION

ADVANCED DISTRIBUTION MANAGEMENT SYSTEM
(SOFTWARE, LICENCES, HARDWARE)

1. Introduction

DELGAZ GRID provides power and gas distribution to companies and individuals, in a certain area of Romania. Romanian authorities ordered the implementation of a national plan for smart metering infrastructure (SMI) by the concessionaire DSOs to comply with Law no. 123/2012 ("Energy Act"). In this context, DELGAZ GRID will continue with smart metering infrastructure development to meet its obligations resulted from regulatory framework and digitalization of the grid. Therefore, DELGAZ GRID is interested in implementing, as part of its digital infrastructure, an ADMS, with the aim to beneficiate of:

a. A complete model of distribution grid and a common user interface shared to all functions and roles having attributions in supervisory, control and optimization of safe operation of distribution electric grid;
b. Proactive guidance of operators, in safe conditions, during extreme situations and while running activities in connection with consumers resupplying upon outages;
c. Enabling distribution operators to manage network loading at peak times, and to optimize the network for improved asset utilization and overall network efficiency and reliability.

2. Disclaimer

All costs for preparing and submitting a response to this RFI are to be borne by the supplier. DELGAZ GRID is under no obligation to reimburse any supplier for any costs associated with preparing and/or submitting a response to this RFI. This RFI does not commit DELGAZ GRID or any official of it to any specific course of action (e.g. issuing a Request for Proposal to the supplier). DELGAZ GRID reserves the right to cancel this RFI at its discretion.

3. Confidentiality

This Request for Information (RFI) is both confidential and proprietary to DELGAZ GRID and its associated companies. DELGAZ GRID reserves the right to recall this RFI in its entirety or in part. Vendors cannot, and agree that they will not, duplicate, distribute or otherwise disseminate or make available this document or its parts without the expressed written consent of DELGAZ GRID and will also keep as confidential the fact that this RFI was issued. Confidentiality also applies in the situation that the vendor does not intend to respond to this RFI. Notwithstanding the foregoing, vendor may make this document available to those employees who have a need to know its contents in order to participate in the preparation of vendor's response to this RFI. DELGAZ GRID reserves the right to distribute the vendor's responses to this RFI to its employees and advisors on a basis to building knowledge on the subject matter and develop latter strategies for SMI implementation. DELGAZ GRID shall retain all copies submitted.

4. Purpose of this Request For Information (RFI)

The purpose of this RFI is for DELGAZ GRID to understand the availability and functionalities of solutions available on the market, identify potential vendor for ADMS, as defined in the RFI Form – section 5 Description of solution, understand its capabilities and build tentative budget for the acquisition of such a solution. ***The information provided by the vendor as a response to this RFI is non-binding, however we would very much appreciate a reasonable price sizing, as much close to competitive prices as possible, in order to can suitably forecast the required funds for this huge investment***.

5. Context and Objectives

DELGAZ GRID is currently providing electricity to approx. 1.46 million consumers throughout its distribution grid. Currently, the DSO uses for network management the following facilities:

- SCADA for MV and HV;
- An independent application for outages management (MI) for handling outages in HV and MV levels, planned and unplanned maintenance (monitoring outage areas, calculation of SAIDI / SAIFI, etc).

On the other hand, DELGAZ GRID is operating the following IT systems or has under implementation the following management systems:

- Ticketing system which provides communications with clients for managing faults (LV level), planned and unplanned maintenance;
- Workforce management system (FSMS), interfaced with Ticketing system, provides handling of tasks within operation and maintenance division;
- SAP – ERP for management of assets;
- SAP – ISU for management of clients, which includes a module CICO that is interfaced with Ticketing system;
- GIS;
- MDM / MDC system, under implementation (estimated transfer to operational by 2022 latest).

6. Expected services

Please see details in RFI Form, section 5 Description of solution.

Please provide the prices for the functionalities and capacities / modules, as described in respective Form, as they include all implementation services required for design, manufacturing, customization, delivery, installation, commissioning, testing, training and introduction into operation, as well as either warranty and post-warranty.

In case of hardware estimations, in system capacity, please include all required equipment to provide referred configuration operation (servers, storage, interfaces, any equipment considered necessary for functioning). In case of software, in software requirements, please include the cost of licenses for installing and operating applications, standard software, database software, storing various data, for various operational configuration as described in Supplier response form.

7. Expected integration with the current and future IT architecture

Please see details in RFI Form, section 5 Description of solution.

8. RFI Timeline

For the purpose of this RFI, DELGAZ GRID has established the following timeline for the completion of the RFI process. Potential vendors not responding by these due dates may be disqualified:

RFI Activity	Due Date
Issue RFI letter and send form to interviewed companies	09.09.2019
Submit RFI responses by interviewed companies	23.09.2019
Evaluation of responses	23-27.09.2019
Clarifications meetings at DEGR HQ - Iasi, Romania	30.09 - 02.10.2019

Neither deviation from the above program, nor extension of deadline or similar will be admitted. Thus, please be understandable and provide requested information within requested timeframe. All companies receiving this RFI are kindly requested to confirm receipt as soon as possible. Also, please identify one individual in your organization to coordinate your RFI questions and response as necessary. Based on the evaluation of the completeness and quality of your response, DELGAZ GRID may elaborate the decision to include such applications in its near-term investment plan.

9. Contact Details

All contact and questions with regards to this RFI must be made through the designated DELGAZ GRID contact person. Only information received from the designated contact person should be considered valid and binding. For the purpose of this RFI, please direct all responses and questions to:

Name & Position: Nicoleta Apostol – Supply Chain Global Category Manager
E-mail: nicoleta.apostol@eon-romania.ro
Phone number: 0728 555 092

10. Information Requested from Interested Potential Vendors

DELGAZ GRID requests that all the response to this RFI be submitted in the form of XLS template provided as a part of this RFI. The XLS template shall be filled in its entirety to the most possible extent and submitted in native XLS format (delivered with RFI documents).

DELGAZ GRID however appreciates and encourages the vendors to attach any supporting materials by e-mail in situation where vendor would like to provide additional information, such as more detailed description or presentation of the proposed solution, unique capabilities, credential, or service that are not expressly mentioned by this RFI. The information requested by this RFI must be submitted in the attached XLS form, covering Company overview, Relevant experience, Solution description and Prices, Additional comments.

In addition to filling in the attached excel form, please feel free to attach any important material / brochure that you consider important to provide an overview of your proposed product capabilities. The format of the additional materials attached is at your discretion (PowerPoint, Word, Excel, PDF) and please include a reference to the specific document in the XLS form, in the corresponding chapter.

11. Requirements for dimensioning the licenses. Info re. power installations volume required to be managed by ADMS-SCADA and DMS/OMS

The transport and distribution of electrical energy, on the territory of counties under the DELGAZ Grid license, is realized throughout contribution of:

- Seven (7) Stations of 400-220kV/110kV/MT, under management of Transelectrica;
- One hundred and twenty-seven (127) Stations of 110kV/MT, and seven (7) Sub-stations MV/MV, under direct management of DELGAZ Grid;
- Approx. fifty (50) Sub-stations of 110kV/MV, under management of several producers or consumers;
- Approx. fourteen thousand (14.000) PA/PT MV/LV;
- Approx. fifty thousand (50.000) switching equipment (switch/separators/CLPs).

The length of distribution grid under DELGAZ Grid administration is approx. of 54.000 km. Number of consumers supplied from DELGAZ Grid network is approx. of 1,5 million.

Currently, the SCADA system has integrated approx. 93 Stations of 110/MV, remotely controlled, and 30 Stations, remotely monitored, as well as 1.200 PA/PT (transformers), reclosers and separators, remotely controlled.

The distribution grid has topologies completely operational (modeled) for 110kV level and as much as 85% for MV level, and dispatchers may update equipment status manually for those not under remote control. In current state, the system utilizes approx. 100.000 variables in real time and 700.000 topologic variables.

The ADMS-SCADA license, which is subject of this RFI, shall be dimensioned to provide remote control of the following:

Network element	Final volume
Stations of 110kV/MV	200
Cells of 110kV aerial +Couples	1.000
Cells MV in stations	3.500
Transformers of 110kV/MV and MV/MV	300
PA/PT MV remotely controlled	12.000
Reclosers + Separators of MV remotely controlled	

In the database of the system shall be included all switching equipments and topology elements which form the distribution grid of 110 kV, MV and LV (down to the final consumer) under DEGR administration. The status of equipments which are not remotely controlled shall be updated manually by operators (dispatchers).

The number of transformers MV/LV that shall be modeled by DMS is estimated as much as 16.000. The number of switching equipments (separators, CLP) of MV that shall be included in the network model and which status shall be updated only manually is estimated as much as 38.000 (these will not be automated). The System shall allow modeling of the network to LV, down to the final consumers branching connection, including.

The number and profile of users for DMS and OMS shall be as below:

FOL	74
DEDL	37
DED	17
Regimes	5
SCADA	20
WFM (FSMS) programmers	37
Center manager	6
Technical coordinators	6
Incident inspectors	6
WFM (FSMS) programmers	37
Division support	6
PUR operators	18
External to Division	30
Call Center operators	36
Total	335