

SE Electrica SA, which represents and coordinates the activity of CIRED Romanian Liaison Committee, invites specialists from energy utilities companies, meters manufacturers, information and communication technology (ICT) implementers, representatives of energy consumers / energy producers / prosumers, researchers, academic people, and decision-makers in standardization, regulation and administration to share their expertise and best practices in the "Smart metering" Symposium in Sibiu. The Symposium deals with all the aspects related to Smart Metering systems implementation and their innovative services solutions offered to users in the future smart grids and has the main goal to encourage discussion and debates regarding the next four topics and a round table:

KEY DATES

Abstract submission:

18.09.2017

Authors notification:

02.10.2017

Submission of full papers:

25.10.2017

TEMPLATE ATTACHED

I. Best practices in Smart Metering implementation

- Status of the National roll-out Programs in the Smart Metering systems implementation in the World, in the EU and Romania
- Communication solutions used in Smart Metering systems implementation (standardization, best practices, etc.)
- Hardware systems and software solutions used to implement Smart Metering systems (standardization, best practices, etc.)
- Managing aspects related to the standardization and metrology of digital meters and those related to interoperability within Smart Metering systems
- CIM interoperability issues between the components of a Smart Grid (SCADA / DMS / OMS platforms, power quality monitoring platforms, SAD-R, SAD-U, MDM platforms of SM, EV charge management platforms, etc.)

II. Services, functionalities and tools provided by Smart Metering

- Services provided by Smart Metering systems to participants in the electricity market
- Functionalities of Smart Metering systems (Advanced Metering Infrastructure) - Best Practices in the World, in Europe and Romania
- Functionalities of Meter Data Management Systems - Best Practices in the World, in Europe and Romania
- Data models used in the European electricity market by the participating parties (TSOs, DOs, suppliers, customers, etc.) for electricity market
- Tools provided by Smart Metering systems for the flexibility of the electricity market (VPP, DR etc.)

III. Security and privacy data protection. Monitoring and management of measurement data

- Aspects of data encryption, cyber security and personal data protection (GDPR) in the use and handling of data from Smart Metering systems
- Cooperation between Smart Metering system users to harmonize the operation of H1(Home Display) / H2(Home Automation) interfaces with DLMS / COSEM
- Managing application integration aspects for Smart Appliances (Home Display / Home Automation, Home Energy Management Systems, Building Energy Management Systems, etc.) and IoT with Smart Metering Systems
- Use of Smart Metering systems in the forecasting and monitoring of technical energy losses and in the identification and localization of non-technical losses
- Protection of Critical Infrastructures against Cyber Threats

IV. Improving the Distribution operator-Client relationship through Smart Metering implementation

- Solutions provided by Smart Metering systems to improve customer information (web portal, messages, etc.)
- Improving the relationship between Distribution Operator and Customer (consumer, prosumer, producer) by using the facilities offered by Smart Metering systems
- The role of the Smart Metering systems in monitoring the key performance indicators of the energy distribution service (SAIDI, SAIFI etc, power quality of energy)
- Big Data, Analytics and Data Mining concepts in the processing of measurement data in order to take the information necessary for decision-making
- Call center/WFM, CIS and other IT&C applications for customer information

ROUND TABLE: *New challenges for DSOs - The Digital Transformation*

Motto: "... the current roll-out of smart meters and smart metering infrastructure in Europe will open up wide opportunities for connecting the smart homes, smart buildings and industry 4.0 with the energy grids."

The Digital Energy 4.0 - Patrick van Hove, European Commission

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Smart distribution



Smart metering



Internet of Things



Smart cities



CIRED -International Conference on Electricity Distribution- is the leading forum where the international electricity distribution community meets. CIRED works for the purpose of increasing the business relevant competencies, skills and knowledge of those participating in CIRED's activities. CIRED offers a biennial conference and exhibition where developments and best practices in technology and management of the technical side of electricity distribution are presented. Between conferences CIRED may organise specific Working Groups on current subjects of key interest to the electricity distribution community.

Information available at www.cired.net

The next CIRED events will be held: in Ljubljana, on 7-8 June 2018 (CIRED Workshop 2018) and in Madrid, on 3-6 June 2019 (CIRED 2019).