TERMS OF REFERENCE
Distribution & Market Facilitation Committee
WG Technology

CHAIR:
Maximilian URBAN (AT)

SECRETARIAT: Paul WILCZEK

Vice-CHAIR: TBC

Group Rationale

The core purpose of this group is to identify and analyse the potential of technologies to foster business improvements and profitability. Further, it seeks to spell out pathways for new technologies to increase value propositions and reduce risks for DSOs. The group will consider both short term, interim solutions as well as longer term solutions involving new hardware, grid designs, communications and control devices with modified system design, control and operation.

The implementation of the resulting technological developments can then be accommodated in standards. Therefore the Subgroups *Distribution System Aspects, Distribution Network Assets* and *Smart Grids Management* are hosted in this Working Group, chaired by **Anthony Walsh (IE), Wouter Vancoetsem (BE)** and **Pierre-Jacques Le Quellec (FR)** respectively.

The implementation of the resulting technological developments will then be accommodated in standards. More in detail, we can define four areas of work for this WG:

- Electrification
  Electric vehicle, smart grid, smart cities, decentral & renewable generation, local energy communities, balancing, non-/frequency ancillary services, storage flexibility;

- Innovation
  Storage flexibility, demand side response/management, internet of things, project funding;

- Digitalisation
  Demand side response/management, internet of things, active network management, smart grids, data management with market-, grid- and customer data, information security (cyber security), data privacy;

- Smartness
  Storage flexibility, demand side response/management, internet of things, active network management, smart grids, microgrid, smart EV-charging, prosumer market participation,

resilience of networks, security of supply as well as issues related to the use of SF6 in DSO networks.

WG Members

The membership of the WG is open to representatives of national associations and technology officers in DSO companies with knowledge of the latest technological trends affecting the DSO sector including R&D&I professionals. Knowledge of the European and national standardisation procedures is desirable as well as experience in system operation and/or automation, and expertise on cyber security, digitalisation issues and on EV infrastructure.

Transversal Eurelectric Cooperation

The WG Technology closely cooperates with:

- The Customers & Retail Services Committee on interoperability and data ownership issues
- The Electrification & Sustainability Committee on smart charging and integration of electric vehicles and their charging infrastructure into the electricity grid, in particular with WG e-mobility.

European and international liaison

DG Energy (ENER), DG Mobility and Transport (MOVE), DG Research, European Parliament's Industry, Research & Energy (ITRE), Transport & Tourism (TRAN), Environment, Public Health & Food Safety (ENVI) Committees, CENELEC, ACER, NRAs, ENTSO-E and DSO relevant organisations.

Work Programme

The Chairmanship along with the Secretariat, on a yearly basis and towards the end of each year, submits a work programme proposal with clearly defined priorities for consideration to the WG, together with appropriate justification on added-value. These priorities shall be in line with the Board's priorities, the respective Committees' work programme and take into account the foreseen resources available at the Secretariat side. Following this process, the Chairmanship along with the Secretariat delivers for approval a final proposal to the respective Committee.

eurelectric

Annex Work programme 2018-19

Deliverable	Deliverable Type	Anticipated Start Date:	Anticipated Delivery Date:	Stakeholders/External parties to be influenced
Electric Vehicle (smart) charging infrastructure Develop and maintain the mandate of the DSO participation in WG e-Mobility, along the following 4 priorities: 1.1 Describe the current situation of EV and recharging infrastructure in the EU in the context of the Clean Mobility Package prospects. 1.2 Define the technical infrastructure requirements to meet EC prospects. 1.3 Take the Eurelectric Model (WG e-Mobility) for DSO participation in the deployment and management of recharging infrastructure. 1.4 Detail the regulatory requirements and estimate the investment needs.	Member state analysis and report	5/2018	10/2018	EC, European Parliament, ACER, ENTSO-E, in cooperation with the Eurelectric WG Electro-Mobility; closer liaison with the DSO-experts taking part in the WG e-Mobility (at present member representative from LUX, NL, UK, CH).
Customer/prosumer/flexibility platform for marketing and handling/control the flexibility. Energy Communities. Analyse the technological needs and costs for implementation	HTF Flexibility report of the DSO associations committee	11/2018	3/2019	DSO associations, DG Ener, in coordination with C&RS Committee
Data Management (TSO DSO data: market; grid; customer). Analyse the technological needs and costs for implementation	TSO-DSO-platform report on TSO-DSO data management	3/2019	8/2019	DSO associations, DG Ener, in coordination with C&RS Committee
Cyber Security Assessment of implementation	Report	9/2019	12/2019	EC, European Parliament, in coordination with WG

of NIS guidelines across Europe. Establish Eurelectric position on Cyber Security focusing on technological implementation and complementing WG IF work which will focus on process related aspects of cyber security when developing the Network Code.				IF on NC work
If required				
Storage technologies and opportunities for DSOs	Report/Position paper			