

## THE ROLE OF RESERVE IN THE EUROPEAN TECHNOLOGY & INNOVATION PLATFORM SMART NETWORKS FOR ENERGY TRANSITION – ETIP SNET

6 February 2019, Mihai PAUN

European Technology & Innovation Platforms (ETIPs) have been created by the European Commission in the framework of the new Integrated Roadmap Strategic Energy Technology Plan (SET Plan) by bringing together a multitude of stakeholders and experts from the energy sector. The ETIP Smart Networks for Energy Transition (SNET)<sup>1</sup> role is to guide Research, Development & Innovation (RD&I) to support Europe's energy transition, more specifically, its mission is to:

- Set-out a vision for RD&I for Smart Networks for Energy Transition and engage stakeholders in this vision.
- Prepare and update the Strategic Research and Innovation Roadmap.
- Report on the implementation of RD&I activities at European, national/regional and industrial levels.
- Provide input to the SET Plan action 4 which addresses the technical challenges raised by the transformation of the energy system.
- Identify innovation barriers, notably related to regulation and financing.
- Develop enhanced knowledge-sharing mechanisms that help bring RD&I results to deployment.
- Prepare consolidated stakeholder views on Research and Innovation to European Energy Policy initiatives.

Since 2016, key energy system players in Europe, represented through their EU associations, platforms and national stakeholders, have started a strong and unique cooperation under the umbrella of ETIP SNET- the European Technology and Innovation Platform Smart Networks for Energy Transition, which includes:

**TSOs** (ENTSO-E), **DSOs** (EDSO, EURELECTRIC, CEDEC, GEODE), **Flexible electricity producers** (EPPSA, EU TURBINES, WindEurope, ETIPWind, SolarPowerEurope, ETIP PV, EGEC, ETIP Deep Geothermal, CogenEurope...), **Research and Academia** (EUREC, EERA, EUA...), **Storage stakeholders** (EASE, EUROBAT, HEA), **Gas and heat network player** (RHC+ ETIP, Euro Heat and Power, EUROGAS, EHA...), **transport sector** (EGVIA) **Consumers** (SmartEn, ANEC), **ICT and digital network providers** (ESMIG, Digital Europe, EUTC..), **Equipment suppliers** (T&D Europe, Europacable, Orgalime) as well as **EU Member States** active in the SET Plan and regulators.

**Thanks to the invaluable contribution from all the above-mentioned stakeholders, ETIP SNET issued its common European vision towards 2050 on Integrating Smart Networks for the Energy Transition:**

- What will our European energy systems look like in 2050 to achieve the energy transition and to reach a near zero-carbon footprint?
- How can the European energy transition meet Europe's society goals: protecting the environment while creating efficient energy markets and ensuring security of supply?
- What RD&I challenges and opportunities does this transition bring?
- How do grids, conversion and storage contribute and what are their roles?
- How should Energy systems be organised to work efficiently?
- How will digitalisation enable the transition?

<sup>1</sup> <https://www.etip-snet.eu/about/working-groups/nscg/>

The Vision 2050 aims at answering these questions and set out the path to shape Europe's energy transition in the decades to come.

There are five Working Groups under ETIP SNET:

**WG1 - Reliable, economic and efficient smart grid system**

**WG2 - Storage technologies and sector interfaces**

**WG3 - Flexible Generation**

**WG4 – Digitisation of the electricity system and Customer participation**

**WG5 – Innovation implementation in the business environment**

**NSCG - National Stakeholders Coordination Group**

Mihai PAUN – Vice-President of the Romanian Energy Center (CRE) and leader of the Regulatory, Legal issues & Business Models for RES activities within the RESERVE Project is actively involved in the activities of the WG5. He represents and share the views and results of RESERVE Project in terms of innovation, regulation and Business Models. Results of other projects in which the Romanian Energy Center is partner addressing the progress made with new and innovative technologies, economic, social, technical, legal solutions for new business developments are also shared with the members of the WG5.

Work Group 5 adopts a helicopter view of the activities carried out in the projects within the perimeter of the ETIP about the energy transition in order to:

- Build homogeneity in the analysis of projects, work done and lessons learned Create a common platform for analysing the progress made with technologies through-out the EU and facilitate their scalability;
- Build a methodology to judge system needs in the energy transition capable of identifying tangible needs for building on progress made and give feedback to the other WGs for populating their R&I needs in the years ahead;
- Review the relevant BRIDGE reports that identify the economic, social, technical, legal, etc. barriers which may slow down business model deployment;
- Search for innovative solutions that will maximize the benefits of the innovation process that EU achieves through R&I activities in the area of Energy.

