



ETIP SNET

EUROPEAN
TECHNOLOGY AND
INNOVATION
PLATFORM

SMART
NETWORKS FOR
ENERGY
TRANSITION

WG5: INNOVATION IMPLEMENTATION IN THE BUSINESS ENVIRONMENT

TERMS OF REFERENCE

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Background for all Working Groups

In September 2015, the European Commission issued the SET-Plan Communication¹, addressing innovation in the context of the strategy of the Energy Union. Among the priorities highlighted, of particular interest for the energy networks community is the priority "**Number 4 – Increase the resilience, security, smartness of the energy system**"².

The European Technology and Innovation Platform for Smart Networks for the Energy Transition (ETIP SNET) was set-up to reflect the increasing need to consider the smart grids as an integral part of the energy system. The mission of the Platform is to guide research and innovation activities to support Europe's energy transition. The ETIP SNET will elaborate a vision and a Roadmap for R&I activities (and the associated Implementation Plans) for smart networks, storage and other sources of flexibility, and integrated energy systems, engaging all stakeholders. It will also look at customer participation and the impact of digitisation. It will identify innovation barriers, notably related to market design, regulation and financing.

A number of permanent Working Groups and a Member States/Regulators Group were set up in the ETIP SNET to ensure the involvement and contribution of all the stakeholders of the energy system as a whole, providing vision, inputs, guidance and continuous feedback for the development of the integrated R&I Roadmap. The Working Groups are set up to ensure the most adequate balance between the effectiveness of their work on the planned deliverables and the openness towards new subjects and new issues which may appear. The following Working Groups are established:

- ❖ WG1: Reliable, economic and efficient smart grid system
- ❖ WG2: Storage technologies and sector interfaces
- ❖ WG3: Flexible Generation
- ❖ WG4: Digitalisation of the electricity system and Customer participation
- ❖ WG5: Innovation implementation in the business environment
- ❖ WG6: National Stakeholders Coordination Group

WG1 to WG4 are dedicated to the different aspects of development of the energy system along its different main development paths; WG5 is focussed on technology transfer and impact enhancement, knowledge building through the analysis of results, knowledge sharing and application, analysis of applications and market uptake and identification of the actions to overcome the “valley of death” of innovation. The WG6 National Stakeholders Coordination Group, involves Governments and Regulators to ensure that all ETIP outcomes optimally complement national conditions and innovation directions, and to facilitate the uptake of ETIP outcomes into local/national policy. The following figure illustrates the main fields of activities of WG1 to WG4:

Domain	Working groups			
System	WG1: Reliable, economic and efficient smart grid system			
Technology		WG2: Storage technologies and sector interfaces	WG3: Flexible Generation	WG4: Digitalisation of the electricity system and Customer participation
Market				
Society				

¹ Towards an Integrated Strategic Energy Technology (SET) Plan: Accelerating the European Energy System Transformation" (C(2015)6317).

² Other priorities, such as priorities one and three for instance, will also impact the energy system transformation.

Mission of the ETIP Working Groups

Experts acting in the Working Groups (“WG Members”) will aim at providing strategic guidance about RD&I priorities and activities, ensuring the interaction and involvement of the entire expertise needs raised by the integration issues of the electricity system into the wider European energy system.

The Working Groups (WG) will also engage with the other ETIPs (roadmap and implementation plans) and the other European or International R&I coordination activities (e.g. ERA-Net SG+, GSGF, CEM initiatives, Mission Innovation, IEA TCPs such as ISGAN, DSM, HTS, 4E etc.).

The Working Groups will act in close coordination with the European CSA assisting the ETIP SNET in the development of the RD&I Roadmap and implementation plans (for the period Oct. 2016-Sept. 2020 the CSA is INTENSYS4EU).

Organisation of the ETIP Working Groups

The WGs gather experts representing the widest community of stakeholders related to their area of expertise. The WG is coordinated by a Chair assisted by one or more vice-chairs. The ETIP SNET Chairs will present to the Governing Board a short list of candidates of WG chairs and vice-chairs taking into account a balanced view of representativeness of different stakeholders in the ETIP Executive Committee. The ETIP Governing board approves the chair and membership of each WG based on their expertise and representativity.

The WG Secretariat function is assured by the INTENSYS4EU project and provides a permanent logistical support to organise meetings, taking minutes and interacting with the Chairs on a permanent basis as well as following-up the execution of decisions taken. WG members are recruited through a call for experts addressed to the entire stakeholder community. Experts contribute to the WG on a voluntary basis and no reimbursement of expenses is foreseen. Decisions in the WG are normally taken by consensus (or through majority vote in cases consensus are not reached) and outcomes from the WG are reported to the ETIP SNET governing board by the Chairs.

Specific Objectives – WG5: Innovation implementation in the business environment

WG5 (Innovation implementation in the business environment) 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 so as to ascertain common tools and methods in shaping a universal and consensual approach, comparable and trustworthy;
- Create a common platform for analyzing developments in technologies, judging results, qualifying and quantifying progress made with technologies, systems and solutions;
- 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;
- Create a platform for identifying progress with means of being supportive for deployment throughout the European Union aiming scalability and replicability to the highest degree possible. This platform should be capable of analyzing results from projects throughout EU irrespective of who has financed them and limited only with confidentially bound information;
- Review the relevant BRIDGE reports that identify the economic, social, technical, legal, etc. barriers which may slow down business model deployment (impacting scaling, replication, deployment);

- Search for innovative solutions that will maximize the benefits of the innovation process (evolution of the industry with a stronger presence in the world economy, improve efficiencies in all spheres of the economy, enrich the options of end users in managing their energy needs, strengthen the solutions that lead to a carbon free economy etc) that EU achieves through R&I activities in the area of Energy.

Key targets and performances Indicators

- *TBD with the WG chair*

Year 1 activities

- Establishing an active WG5 through an open invitation to all stakeholders in line with the general working arrangements agreed within ETIP SNET. The objective would be to identify a core group of members that will be capable of putting together a yearly plan and implementing it in line with the needs and objectives of ETIP SNET and in parallel create a pull of experts in specific areas that will be consulted as and when specific issues arise that their assistance and contribution are considered of crucial importance and need.
- Analyse all the Specific Objectives of WG5 for further elaboration and prioritization. The members will be asked to give content to these objectives with the possibility of enhancing in certain areas and limiting others. The consensus reached will be transformed into a detailed work plan with timeline for deliverables.
- Within the first year the WG5 will liaise with the other WGs in order to identify the areas that they expect support in fulfilling their objectives. This work will clarify objectives and work content of the WGs so as to avoid duplication and maximise coordination and support actions.
- WG5 will transform the expected deliverables agreed with the others WGs as a work roadmap for year 1 as a minimum. The detailed plan will be presented to the Governing Board of ETIP SNET following agreement with the rest of the WGs.

Annex 1: Key input documents

- Strategic Energy Technology Plan - Towards an Integrated Roadmap: Research and Innovation challenges and needs of the EU energy system [https://setis.ec.europa.eu/system/files/Towards%20an%20Integrated%20Roadmap_0.pdf]
- Communications of the EC COM(2015) 80 final: A Framework Strategy for a Resilient Energy Union with a Forward-Looking Climate Change Policy [<http://www.eea.europa.eu/policy-documents/com-2015-80-final>]
- Communications of the EC C(2015) 6317 final: Towards an Integrated Strategic Energy Technology (SET) Plan: Accelerating the European Energy System Transformation [https://setis.ec.europa.eu/system/files/Communication_SET-Plan_15_Sept_2015.pdf]
- SET Plan – Declaration on Strategic Targets in the context of an Initiative on Energy Systems [draft]