

PLAN. INNOVATE. ENGAGE.

ETIP SNET (<u>European Technology and Innovation Platform</u> for <u>Smart Networks for Energy Transition</u>): for an innovative and successful European energy transition

Second ETIP SNET regional workshop, Helsinki, 3 October 2018

Maher CHEBBO, ETIP SNET Vice-chairmen

Presentation of the ETIP SNET

- Purpose of the workshop
- Presentation of the Agenda of the workshop

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From a fragmented EU advisory to an integrated framework









A new focus on innovation / implementation and on sector coupling

2016



Main objective is to address the innovation challenges in **energy system** and **market evolution** necessary for achieving climate protection and **renewables integration** with affordability and security of supply ... beyond smart electricity grids (whole energy system)

ETIP SNET's Missions

- 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.



ETIP SNET's Stakeholders



Transmission System Operators (TSOs)



Distribution System Operators (DSOs)



National Representatives



Research & Academia



Storage (technology and services providers)



Consumers (aggregated and not aggregated)



Thermal Generation (flexible)



Renewable Energy Sources Generation



ICT, Network and Software providers



Equipment manufacturers and suppliers (non-ICT)



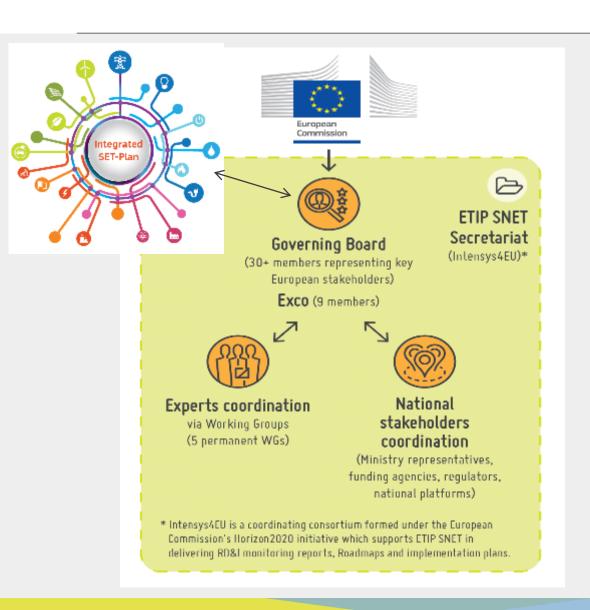
Interface to Other
Energy Carriers
(Heat, Transport, Gas, ...)



Regulators



ETIP SNET's Organisation





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



ETIP SNET Process



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2050 Vision Goal

A low-carbon, secure, reliable, resilient, accessible, cost-efficient, and market-based pan-European integrated energy system

supplying the whole economy and paving the way for a **fully CO2-neutral** and circular economy by the year 2050,

while maintaining and extending global European industrial leadership in energy systems during the energy transition.





The ETIP SNET NAME THE ETIP SNET Vision 2050

Goal 2050

The transition

RD&I Needs

RD&I Environment

Energy systems for European society Towards integrated energy systems

Building Blocks

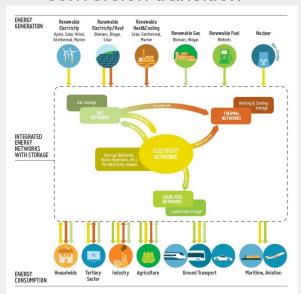
Framework

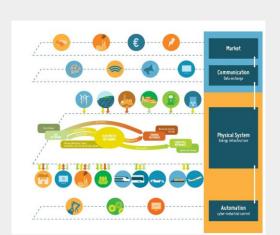
- Three pillars: environment, markets, security of supply
- The Vision statement
- Today ... Tomorrow
- Challenges and opportunities
- Storage and conversion transition

- Efficient organization
- Enabling energy markets
- Digitalization
- Infrastructure for integration

- European Industry
- Managing Economic Disruption
- Strategic Approach to RD&I









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The regional workshops

<u>Identity R&I topics</u> needed for the future, <u>lessons learned</u> and <u>deployment</u> <u>perspectives</u> (focus on findings of significant EU added value and addressing energy system integration issues) to <u>support the updating process of the ETIP SNET roadmap</u>

- South eastern region: Croatia 19-20 September (Zagreb university)
- Northern region: Finland 3-4 October (VTT)
- Central region: Belgium 11-12 October (Flux 50, service publique de Wallonie, cluster tweed)
- Western region: Spain 22-23 November (CIRCE)



http://www.etip-snet.eu/regional-workshops/



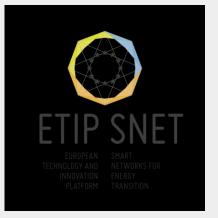
Contribution expected from the workshop participants

- ► To foster networking and exchange of positive and negative experiences between projects at EU and national/regional levels.
- ► To help the ETIP SNET detect national projects with strong EU added value and feed the monitoring process to appraise the coverage of the existing knowledge.
- ► To help the ETIP SNET identify the need for further specific R&I activities to be specified in the updated roadmap and next IPs.
- ► To help the ETIP SNET identify barriers to innovation deployment.
- ► To inform the ETIP SNET about good practices gained in pilots and demonstration activities (monitoring process).
- ► To inform the ETIP SNET about the implementation plans for the innovations so as to support knowledge transfer to all stakeholders.

Presentation of the ETIP SNET

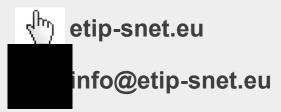
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Thank you for your attention

More information:





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