

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

First ETIP SNET regional workshop, Zagreb, 19 September 2018

Nikos HATZIARGYRIOU, ETIP SNET Chair

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

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## From a fragmented EU advisory to an integrated framework



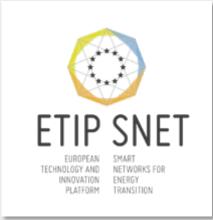






A new focus on innovation / implementation and on sector coupling

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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## ETIP SNET PLAN. 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.





## ETIP SNET PLAN. 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

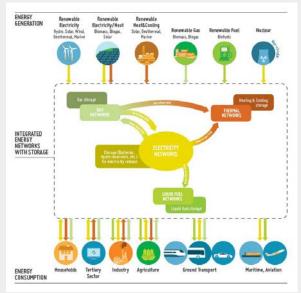
Framework

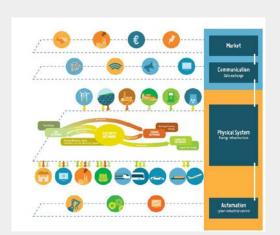
- Three pillars: environment, markets, security of supply
- The Vision statement
- Today ... Tomorrow
- Challenges and opportunities
- Storage and conversion transition

- 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.

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## PLAN. ENGAGE.

## Thank you for your attention

#### More information:



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