



ETIP SNET

EUROPEAN
TECHNOLOGY AND
INNOVATION
PLATFORM

SMART
NETWORKS FOR
ENERGY
TRANSITION

PLAN.
INNOVATE.
ENGAGE.

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

Fourth ETIP SNET regional workshop, Riga, 7 December 2017

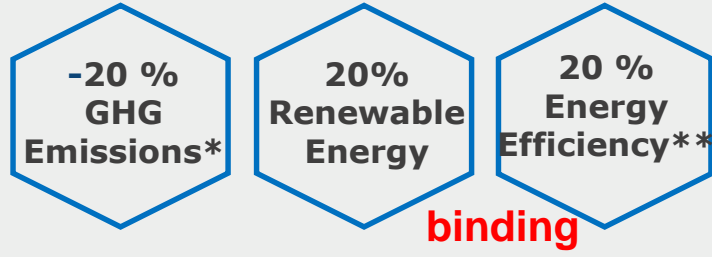
Konstantin Staschus, Ph.D., ETIP SNET Governing Board vice-Chair
Chief Innovation Officer, ENTSO-E; Director, Ecofys/Navigant



- ▶ **EU policy framework**
- ▶ **The ETIP-SNET: a new platform addressing the energy system as a whole**
- ▶ **Purpose of the workshop**

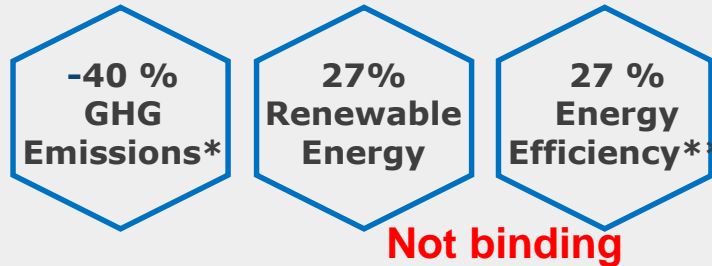
European R&I energy policies

▶ 2008: The SET Plan



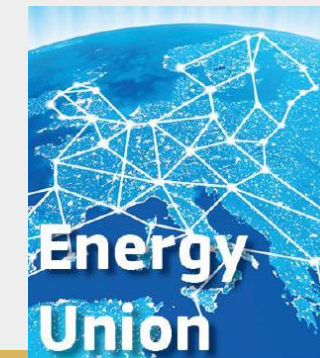
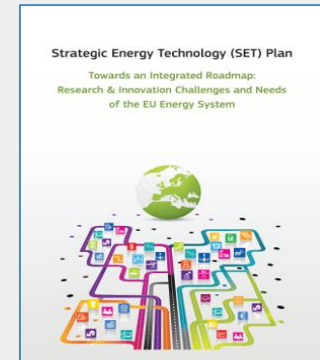
▶ 2014: Towards an Integrated Roadmap

- Individual Technologies → Energy system
- Policy challenges
 - Consumer at the centre
 - Energy efficiency (demand)
 - System optimisation
 - Technologies (supply)



▶ 2015: Energy Union – Priorities

- Energy security, solidarity and trust
- A fully integrated European energy market
- Energy Efficiency (EE) first: moderation of demand
- Transition to a low-carbon society: decarbonising the economy,
- **Research, Innovation and Competitiveness**



SET Plan key actions



1. Performant renewable technologies integrated in the system
2. Reduce costs of renewable technologies
3. New technologies & services for consumers
4. **Resilience & security of energy system**
5. New materials & technologies for buildings
6. Energy efficiency for industry
7. Competitive in global battery sector (e-mobility)
8. Renewable fuels
9. Set up R&I activities applying CCS and CCU
10. Maintain safety level & improve efficiency in nuclear energy



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Outline

- ▶ EU policy framework
- ▶ **The ETIP-SNET: a new platform addressing the energy system as a whole**
- ▶ Purpose of the workshop

From a fragmented EU advisory to an integrated framework



A new focus on
innovation /
implementation and
on sector coupling



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 mission

- ▶ **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



Governing Board
(30+ members representing key European stakeholders)

Exco (9 members)



Experts coordination
via Working Groups
(5 permanent WGs)



National stakeholders coordination
(Ministry representatives, funding agencies, regulators, national platforms)



ETIP SNET Secretariat
(Intensys4EU)*

* Intensys4EU is a coordinating consortium formed under the European Commission's Horizon2020 initiative which supports ETIP SNET in delivering RD&I monitoring reports, Roadmaps and implementation plans.



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



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Purpose of regional workshops

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

- Region 1: PT, ES, FR, UK, EI
- Region 2: DK, SE, FI, NO, LT, LV, EE
- Region 3: IT, SL, KR, MT, HU, RO, BG, GR, CY
- Region 4: BE, NL, LU, DE, PL, CH, AT, CZ, SK, HU

Region 4; Aachen (Germany), 18-19 September 2017

Region 1: Lisbon (Portugal), 28-29 September 2017

Region 3: Cyprus, 23-34 November 2017

Region 2: Riga (Latvia), 7-8 December 2017





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**Thank you for your
attention**

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