

EU R&I policy to support wind energy



ETIPWind Workshop

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1



Energy Union: 5 Pillars

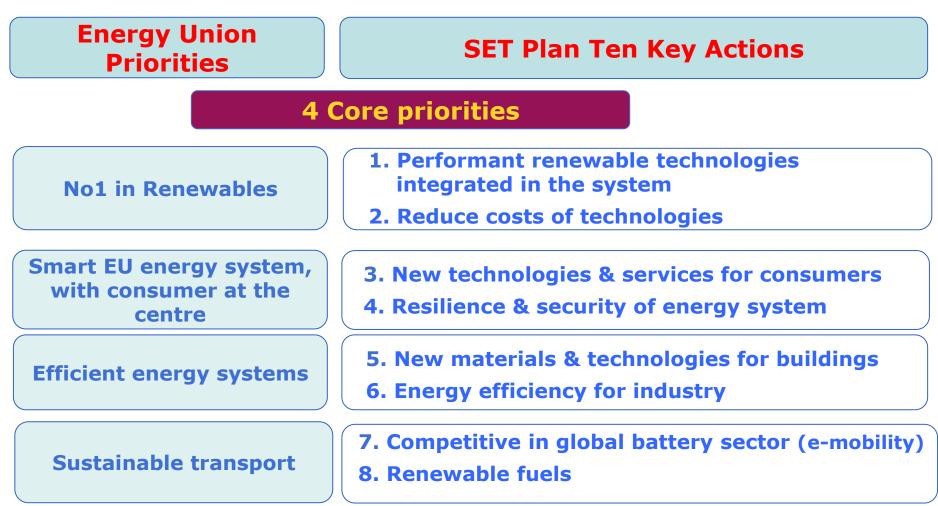
1. Energy security, solidarity and trust



- **2.** A fully integrated European energy market
- **3.** Energy efficiency contributing to moderation of demand
- 4. Decarbonising the economy
- **5.** Research, Innovation and Competitiveness
- ⇒ the Strategic Energy Technology Plan (SET Plan) as a key implementing pillar











SET Plan prioritisation

For each of the 10 Key Actions

- **1.** A few targets proposed by the EC using the Integrated Roadmap
- 2. Large consultation among the stakeholders and 32 SET-Plan countries
- **3.** A meeting between all to decide on the final targets
 - 'Declaration of Intent'







For Global leadership in offshore wind

- Reduce the levelised cost of energy* (LCoE) at final investment decision for fixed offshore wind by improvement of the performances of the entire value chain to
 - → Less than 10 ct€/kWh by 2020 and to
 - → Less than 7ct€/kWh by 2030
- 2. Develop cost competitive integrated wind energy systems including substructures which can be used in deeper waters (>50m) at a maximum distance of 50 km from shore with LCoE* of
 - → Less than 12 ct€/kWh by 2025 and to
 - → Less than 9 ct€/kWh by 2030







Common backbone of ETIPs

Overview

- Key governance structures to implement the SET Plan
- Independent and self-financing stakeholder fora
- Industry-led and innovation driven covering the whole innovation chain

Role

- Develop and implement R&I Agendas
- Provide strategic insights into market opportunities and needs
- Support the selection and monitoring of priority SET Plan R&I Activities
- Cover technological and non-technological aspects
- Address the need for system integration
- Systematically identify pathways to exploit research results
- Identify and communicate the SET Plan results and success stories
- Mobilize stakeholders to implement the R&I Activities

Cooperation with countries and the EC

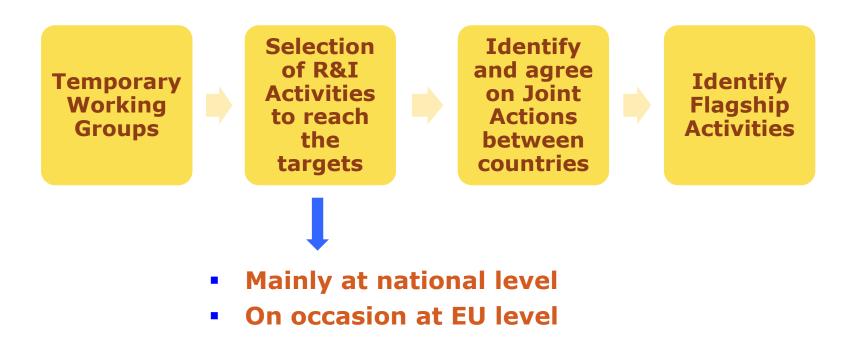
Confined to precise tasks and goals







Implementation Plans



Off-Shore wind is already an example: MoU to be signed by 10 European countries around the North Sea



EU Support

EU funds for wind energy



NER300.com Finance for installations of innovative renewable energy technology and CCS in the EU



→ EFSI - European Fund for Strategic Investment EUR 315 billion

- → ESIF European Structural and Investment Funds
 - EUR 46 billion Research & Innovation
 - EUR 45 billion low cost economy



EU Support

EU funds for wind energy

Innovative Financial Instrument for First-of-A-Kind Energy Project

Valley of Death" from demonstration to comercialisation

Inno**√**Fin EU Finance for Innovators



A first response: InnovFin Energy Demo Projects (EDP)

Launched on 15 June 2015 by EC (RTD) and EIB, **Energy Demo Projects** (EDP) has been designed to address a higher level of risk than that currently covered under InnovFin, allowing projects which are initially non-bankable but are close to generating cash flows to benefit from the risk finance envelope.

Inno**/**Fin Energy Demo Projects

COP21 30 Nov. 2015





European countries: DE, DK, FR, IT, NO, SE, UK 2 June: European Commission joined - 21st partner NL expected for COP22

- Double Governmental Investment in Clean Energy R&D over 5 years ~ \$ 30 billion per year by 2021
- Link with Breakthrough Energy Coalition, i.e. Private investors