

## The New Strategic Energy Technology Plan: Accelerating the European Energy System Transformation





Commission

# History: The SET Plan in 2008

#### > A first broad coalition of stakeholders

#### Link to policy agenda

#### **Objectives for 2020**

- 20% reduction of CO2 emissions (ref. 1990)
- 20% share of renewable energy [of EU energy consumption]
- 20% improvement in Energy Efficiency

#### Focus on technologies





## 2013: Communication on Energy Technologies and Innovation

## **Key Principles**

New policy challenges

#### **Objectives for 2030**

- 40% reduction of CO2 emissions (Ref. 1990)
- 27% share of renewable energy [of EU energy consumption]
- 27% improvement in Energy Efficiency
- From technology sectors to energy system
- Keep technology options open
- Reinforce the implementation of actions beyond EU-funded projects





#### "Towards an Integrated Roadmap", December 2014

- Active consumer
- Demand focus (energy efficiency)
- System optimisation
- Supply
- New integrated approach going beyond technology silos

Strategic Energy Technology (SET) Plan

Towards an Integrated Roadmap: Research & Innovation Challenges and Needs of the EU Energy System



First time – a comprehensive European energy R&I agenda for solutions to cost-effectively accelerate the energy transition

https://setis.ec.europa.eu/set-plan-process/integrated-roadmap-and-action-plan



Commission

# EU Budget availability 2014-2020

## Horizon 2020 – Overall budgets



Total budget H2020: EUR 74,83 B€

Budget of the Energy Challenge: EUR 5,69 B€ Twice that of the period 2006-2013

35% of the total H2020 budget is climate action relevant

# Energy R&I Challenges

European Commission





# **The Integrated SET Plan priorities**





## The Integrated SET Plan management



### 1. Strengthened cooperation

- Between Members States [EU 28 + Iceland, Norway, Switzerland and Turkey]
- Between Stakeholders
  - Opening to new actors
  - Direct interactions between all relevant stakeholders

### 2. More coordination between Members States

More joint actions involving Member States, with or without EU funding



## The Integrated SET Plan management

## 3. Transparency, indicators and periodic reporting

**Method** 

- Annual KPIs:
  - Level of investments public and private sector
  - o Trends in patents
  - $\circ$   $\,$  Number of researchers active in the sector  $\,$
- Every 2 years, progress will be measured:
  - Technology developments
  - Cost reduction
  - Systemic integration of new technologies
- Yearly State of the Energy Union Report
- 4. Monitoring and knowledge sharing
  - Strengthening SETIS (Strategic Energy Technology Information System)

https://ec.europa.eu/jrc/en/news/new-strategic-energy-technology-plan-set-plan-communication



## The Integrated SET Plan CONCLUSIONS

- Clearer prioritisation
- Precise strategic targets in priority areas
- Better identification of gaps, duplication and synergies at EU and national level
- Action-orientation
- Energy systems approach
- Technical, socio-economic, legal, financial issues





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