

THE PROJECT AT A GLANCE

SET-Nav
Strategic Energy Roadmap

FINAL CONFERENCE
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SET-Nav
Strategic Energy Roadmap



BACKGROUND

SET-Plan

Identify **strategic energy technologies** and **design roadmaps** to tackle the barriers hindering effective implementation across Europe.

Design an integrated roadmap to identify research and innovation challenges and needs of the EU energy system.

**“Energy Technologies and Innovation”,
COM(2013)253 final**

Complement a **technology-oriented view** with **socio-economic research**:

- To increase our understanding of the complex energy system
- improve our knowledge for policy development
- and engage civil society in the transition of the energy system.



SET-NAV: THE PROJECT AT A GLANCE

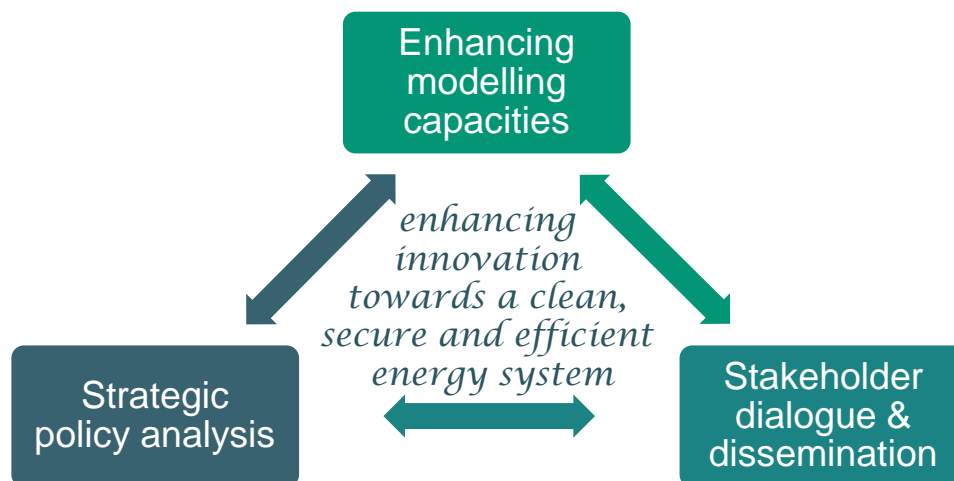


The overarching goal of SET-Nav is to support strategic decision making in Europe's energy sector, enhancing innovation towards a clean, secure and efficient energy system.



Two-stage process:

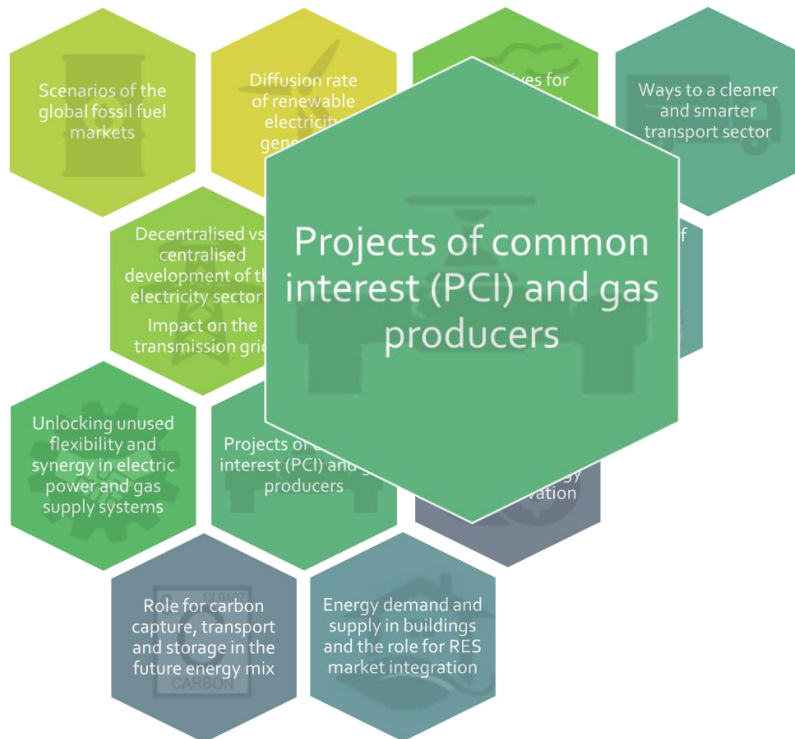
**Case studies →
Pathway analysis**



- Enhance **modelling capacities** to increase understanding of interactions and interdependencies between actors, technologies and policy interventions in Europe's energy system.
- Provide **model-based decision support** for enhancing energy innovation towards a clean, secure & efficient energy system - through strategic **policy analyses** tackling relevant technology and policy options, complemented by detailed comparative assessments of **energy transformation pathways**.
- Ensure a proper research orientation and a high impact through a continuous and in-depth **stakeholder involvement** and **dialogue**.



STAGE 1: CASE STUDIES



11 case studies: Each dedicated to tackle one or more challenges of the SET-Plan

Example: Projects of common interest and gas producers; relation to different challenges

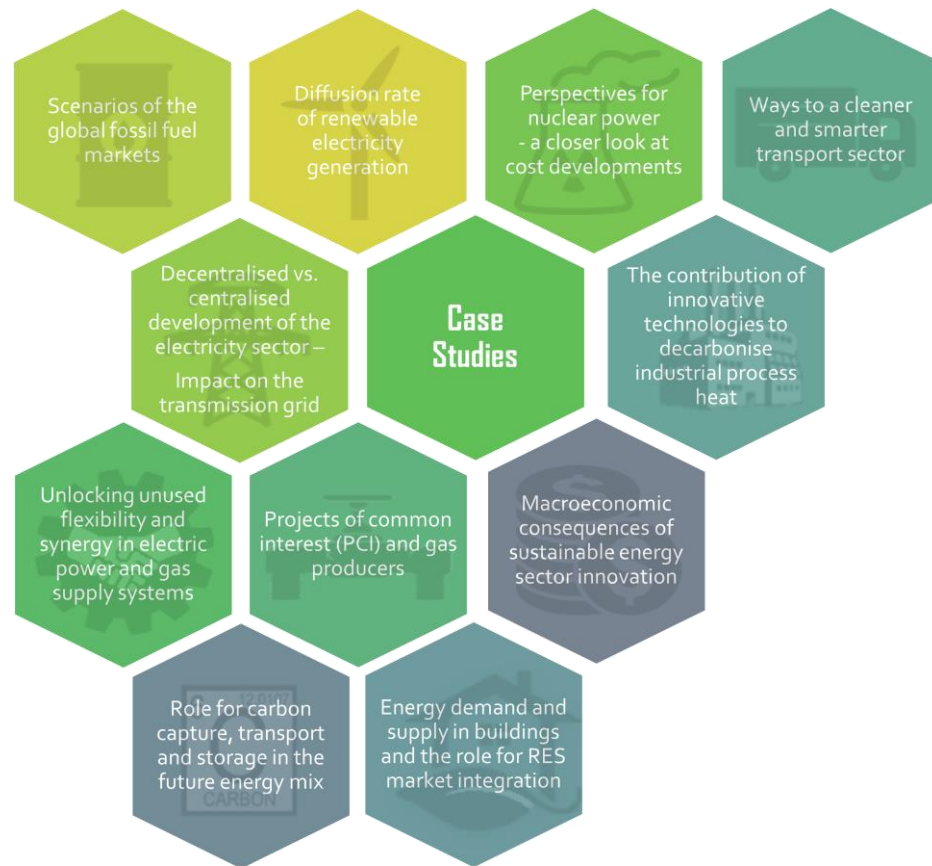
System optimization

- Modernizing the EU electricity grid and establishing synergies between the various energy networks
- Providing the energy system with flexibility, security and cost-effectiveness

Secure, cost effective, clean, and competitive supply

- Accelerating the development of renewable electricity and heating/cooling technologies

CASE STUDIES: OUTCOMES / RESULTS



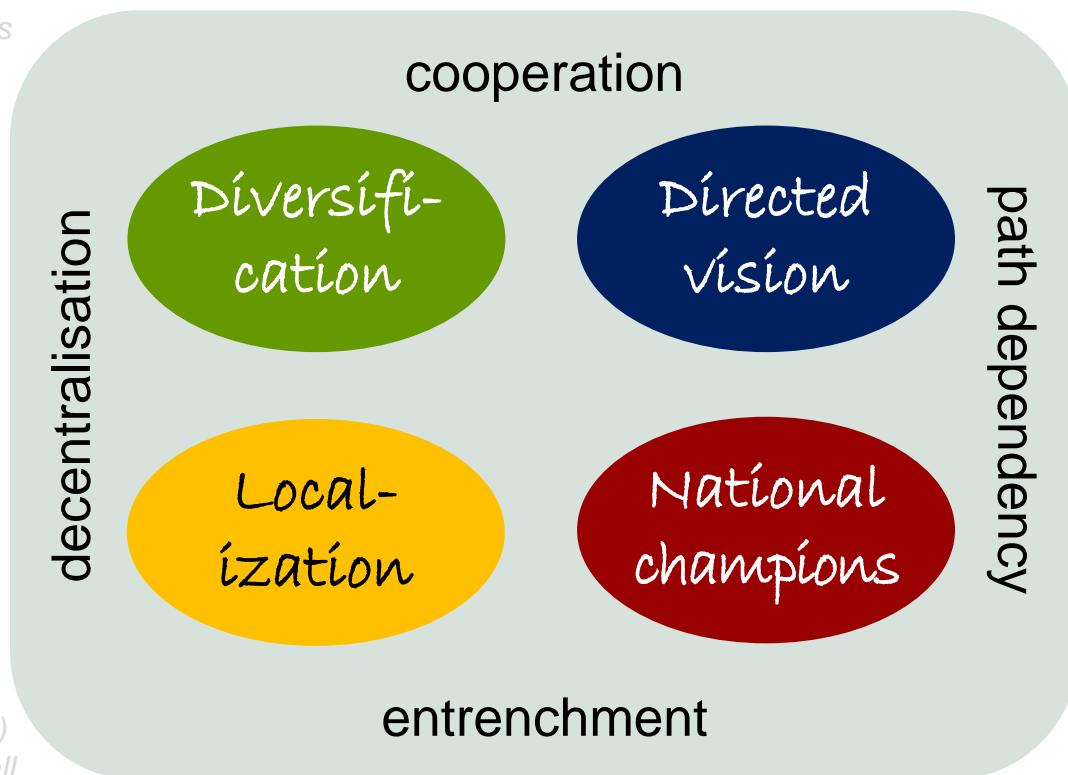
- **Case study conception and elaboration completed.**
- **Case study works provide useful and interesting specific results and insights on the challenges in focus**
- **Challenges encountered in case study elaboration:**
- To align with ongoing policy developments (e.g. recent decisions on 2030 GHG / RES / EE targets) some case studies required an update/refreshment and took consequently longer than planned



STAGE 2: PATHWAY DEFINITION

- heterogeneous actors
- coordination (beyond markets)
- digitalization (open IP)
- regulatory change
- disrupt incumbents

- local resources
- resistance to big infrastructure
- experimentation & diversity (many niches)
- digital winners-take-all

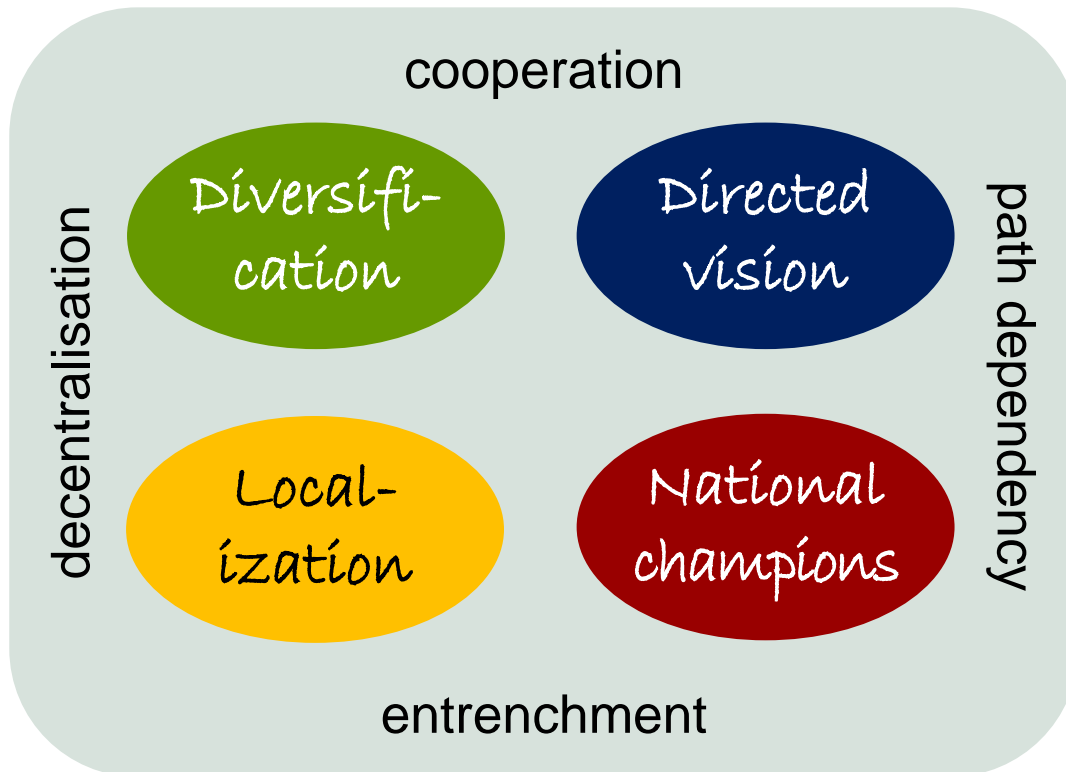


- EU/state-directed
- shared vision
- strong EU policy framework

- utilities & incumbents
- regulatory capture
- low transition costs



PATHWAYS: OUTCOMES / RESULTS



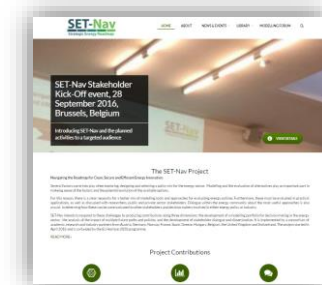
Status of pathway analysis:

- Pathway concept and related storylines derived (intensive discussions, incl. stakeholders/AB)
- Parameterisation derived
- Complex model interactions / intensive modelling works undertaken
- Pathway analysis completed



*Navigating the Roadmap for Clean, Secure
and Efficient Energy Innovation*

Thank you!



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