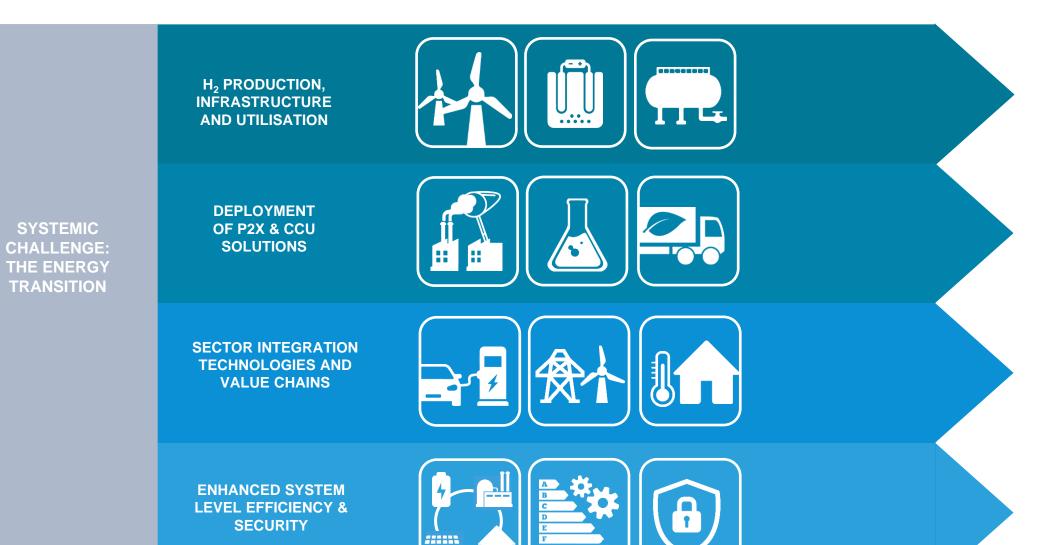
Market shaping activity plan for GreenE²













H₂ PRODUCTION, INFRASTRUCTURE AND UTILISATION



Timeline 2022

What needs to be shaped?

How?

FACILITATE DEVELOPMENT OF AN ENABLING BUSINESS ENVIRONMENT

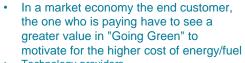
- Regulation
- Technical standards
- Infrastructure
- Value chains & networks

NEED 1



NEED 1

· Regulations on distribution of Hydrogen or similar forms and grid injection limitations across countries. Influencing EU regulation, regulatory discussions and development



Technology providers





NEED 2

 Similar safety rules for H2 in EU level. Safety and security very important issues in hydrogen economy

ACTIVATE POSITIVE SPIRIT ON THE MARKET

- Understandable terminology
- Symbols for raising awareness
- Active media for information sharing
- Customer preferences and behaviour



NEED 3 Fees and taxes



NEED 3

Identify market segments in which "Going Green" is good business

NEED 4



NEED 4

• We need to link this with fees, taxes and the competitiveness

NEED 5



NEED 5

New wind power projects dedicated to hydrogen production?



2025









DEPLOYMENT OF P2X & CCU SOLUTIONS



Timeline 2022

What needs to be shaped?

How?

FACILITATE DEVELOPMENT OF AN ENABLING BUSINESS

- Regulation
- Technical standards
- Infrastructure
- Value chains & networks

ENVIRONMENT

NEED 1



NEED 2



NEED 3



NEED 1

- Engage private sector in the preparation work of new legislation by e.g., co-producing policy recommendations and white papers with industries to support the public authorities in their work. Address key missing items or restrictions from the current regulation.
- Join relevant roundtables for regulation in Europe to influence EU-level regulatory discussions and development.

NEED 2

- Take in best practices from international projects and create clear instruction for permitting for local authorities
- Organize sharing and learning sessions with regions

NEED 3

- Engage industries and rescue services into co-creation and sharing of best practices
- Take in learnings from international projects



ACTIVATE POSITIVE SPIRIT ON THE MARKET

- Understandable terminology
- Symbols for raising awareness
- Active media for information sharing
- Customer preferences and behaviour

NEED 4



NEED 4

· Create customer attraction methods for green solutions by utilizing e.g., advertisement & communication campaigns and also price incentives Openly disseminate co-created safety protocols for hydrogen







2025







SECTOR INTEGRATION TECHNOLOGIES AND VALUE CHAINS



Timeline 2022

FACILITATE DEVELOPMENT OF AN ENABLING **BUSINESS ENVIRONMENT**

- Regulation
- Technical standards
- Infrastructure
- Value chains & networks

What needs to be shaped?

NEED 1

NEED 2

NEED 3

NEED 4

NEED 5

NEED 6

How?

NEED 1

· Research organizations: Value chain analyses, e.g., side streams, waste heat utilization, etc.

NEED 2

 Aggregators between the existing actors – every stakeholder should win

NEED 3

- RDI projects, promote digitalization
- IT startups based on utilization of big data, IoT, etc.

NEED 4

- · Digital platform, requires RDI.
- Smart EV charging as first step, V2G follows

NEED 5

Centralized / distributed heat pumps & storage

NEED 6

Messages to decision-makers. Big picture needed

GreenE2 Comms group + Energy industry associations

ACTIVATE POSITIVE SPIRIT ON THE MARKET

- Understandable terminology
- Symbols for raising awareness
- Active media for information sharing
- Customer preferences and behaviour

NEED 7

NEED 8



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NEED 7

• Easy to use products, market communication about benefits, practical examples

NEED 8

- Demand-response, incentives to customers for using their premises / buildings as heat storage
- EV-batteries as flexibility assets of the power grid
- Local energy communities & efficient urban solutions



2025









ENHANCED SYSTEM LEVEL EFFICIENCY, RESILIENCE & SECURITY



Timeline 2022

FACILITATE DEVELOPMENT OF AN ENABLING BUSINESS ENVIRONMENT

- Regulation
- Technical standards
- Infrastructure
- Value chains & networks

What needs to be shaped?

NEED 1

Creating an enabling environment for data exchange

NEED 2

Understand end user needs regarding telecom standards from energy market

NEED 3

Identify owners for cyber physical systems

NEED 4

Transparency, forecasting and clear roles forenergy market

NEED 5

Flexibility

NEED 6

Data Forecasting

NEED 1

- Develop standards eg. Gaia X
- Identify revenue generation streams and business models

NEED 2

How?

• Better collaboration with telecommunication researchers and energy experts

NEED 3

· Governance and regulations

NEED 4

• Digital twin pilots for Finnish energy ecosystem

NEED 5

· Platforms for integrating prosumers

NEED 6

Usage of data for managing volatility

ACTIVATE POSITIVE SPIRIT ON THE MARKET

- Understandable terminology
- Symbols for raising awareness
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- Customer preferences and behaviour

NEED 7

Communication about flexibilit



NEED 7

- Create a communication plan and strategy for prosumers
- Models for forecasting consumption, production and pricing



