

100% Renewable

Energies for

Industries

www.re4industry.eu

At a

glance



RE4INDUSTRY

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Context

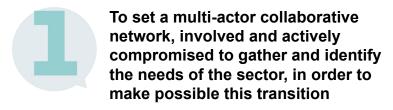
The EU has started a progressive decarbonisation with the aim to become carbon neutral by 2050. Energy Intensive Industries (EII) are expected to play an important role in this transition as they represent 24% of the final energy consumption, but a clear long-term vision and strategy is required in order to remain competitive while contributing to the decarbonization targets of the EU.

RE4Industry has been conceived under this framework with a twofold aim:

- to support Ell in the identification and integration of renewable energy (RE) solutions together with the definition of Action Plans for decarbonisation
- to transform the EU industrial landscape into a large market niche for the uptake of RE while defining the appropriate framework conditions for short- and long-term scenarios.



Goals



To show the RE technologies with more potential to be utilised by Ells or integrated in their industrial processes, and mark the path in the short (2030) and long term (2050)

- To identify, visualise and share success stories of Ells already adopting RE with the innovations
- To promote the early transition of Ells by means of a direct accompaniment within companies
- To achieve a common understanding and vision of the role that Ells have to play towards 2050 a RE consumers and potential RE promoters
- To promote a more favourable policy and market framework to allow the competitiveness of RE based Ells goods

- To ensure a growing interest and alignment of European society by means of a strong and coordinated communication campaign coherent with Ell sector messages
- To empower the sector and key organizations through knowledge transfer, strategic positioning and cross-border actions

SHORT-TERM VISION

2030

LONG-TERM VISION

TECHNOLOGY OPTIONS

- Conventional RE heating / power
- New RE (solar thermal, bio syngas)
- H2 (electrolysis / syngas)
- E-fuels (synthesis fuels from RE based hydrogeneration of CO2 captured)

ACHIEVABLE RATES

- CO2 balance ≤ 0
- RE use = 100%

CURRENT SECTOR NEEDS

- Scope to understand the future options on RE
- Implications for retrofitting to produce and adopt e-fuels
- Energy balances and key indicators of adopting each RE alternative (for an early decision making in shortmedium term)
- Expected costs for RE use

TECHNOLOGY OPTIONS

Conventional RE heating

- Biomass
- Bioenergy carriers
- Solar (high temperature)
- Geotherm

ACHIEVABLE RATES

- CO2 balance > 0 (reduced according to RE use)
- RE use <50%

CURRENT SECTOR NEEDS

- Existing options for retrofit
- Cases already implemented
- Lessons learned
- Insight in cost / economics
- Opportunities (e.g. for financing, long term RE contracting)
- · Positive social perception
- Influence for a better framework

2050

Vision

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RE4Industry actions



A strong engagement strategy following a multiactor approach



A dialogue with and within Ells and Ell organizations



A thoughtfully review of RE technologies and options for a 100% RE production by 2050



Insights into industry retrofitting and promotion of RE integration



Recommendations for the uptake of RE by Ells and advocacy



Multiplication and replication



A solid dissemination and communication strategy

RE4Industry Expert group: Regulations



As part of the RE4Industry Expert Group for regulations, you will be part of a sector oriented expert group, unique in its kind, all the while sharing your visions on the renewable sector at EU-level.

Your deep and extensive knowledge and background on the this side will contribute to the definition of a 100% renewable vision for European energy intensive industries.

Contribution

RE4Industry Expert group: Regulations



- Top notch consultation for the project offering a wider strategic perspective on an EU level and provide feedback on specific activities and strategic project reports.
- Participate in replication and dissemination activities of the RE4Industry project (e.g. in RE4Industry fora" which consists of meetings and workshops connected to events of relevance -like fairs, summits, or thematic weeks).
- Meet biannually through a telco. Physical meeting is envisaged by March 2022. A budget for the trips is foreseen.

RE4Industry Expert group: Regulations

The benefits of the Expert Groups

- Full and very first insights to all **project outcomes**, based on the work **performed** in some of the **major European energy intensive industries**;
- Opportunities for knowledge exchange and networking with high-level national and international actors;
- Open door for participation in future EU-funded projects;
- Full visibility at EU level, on our project website and all public ommunication materials and channels;
- Updates on tailored events, seminars or other actions based on your interests;
- Insights in opportunities and barriers for decarbonisation of energy intensive industries.

RE4Industry Expert group: Regulations

Specific Project Results of Interest:

TG Energy Intensive Industries

- Report on Barriers, Drivers and Opportunities for RE market (3/2023);
- Report on Success cases of integration of RE in Ells (2/2022);
- Case study highlights in RE adoption by 3 Ells in Steel, Aluminum and Chemical sectors (2/2023);
- Ells Sector status in EU report (2/2022);
- Mapping tool of the Ells per sector in Europe (8/2021);
- Handbook for transition towards 100% RE-based production of Ells (8/2023);
- Feasible technologies and requirements for RE integration (2/2023);
- RE4Industry Brochure (4/2023);
- Common vision for decarbonization of Ells in Europe and policy recommendations (2/2023).

RE4Industry Expert group: Regulations

Specific Project Results of Interest:

TG technology providers, ESCOs, engineering firms

- Report on Success cases of integration of RE in Ells (2/2022);
- Case study highlights in RE adoption by 3 Ells in Steel, Aluminum and Chemical sectors (2/2023);
- Ells Sector status in EU report (2/2022);
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RE4Industry Expert group: Regulations

Specific Project Results of Interest:

TG academia, researchers and R&D departments

- Report on Barriers, Drivers and Opportunities for RE market (3/2023);
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RE4Industry Expert group: Regulations

Specific Project Results of Interest:

TG relevant value chain actors and associations

- RE4Industry Brochure (4/2023);
- Common vision for decarbonization of Ells in Europe (2/2023);
- Policy recommendations (2/2023).

RE4Industry Expert group: Regulations

Specific Project Results of Interest:

TG policy actors

- Report on Barriers, Drivers and Opportunities for RE market (3/2023);
- Report on Success cases of integration of RE in Ells (2/2022);
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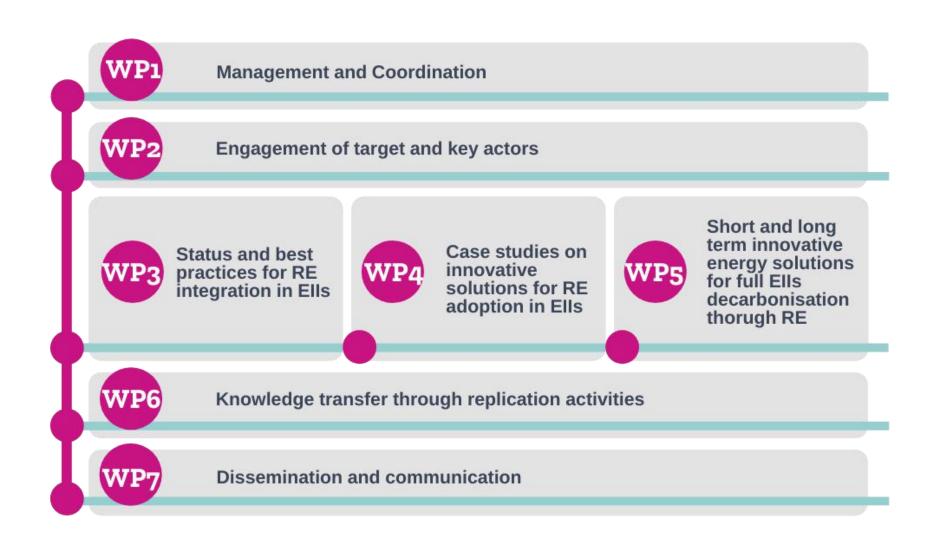
Specific Project Results of Interest:

TG society

- Common vision for decarbonization of Ells in Europe (2/2023)
- **Policy recommendations** (2/2023)

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Project workflow



Consortium

TECHNOLOGICAL AND SOCIAL EXPERTS









RENEWABLE ENERGY-ORIENTED ASSOCIATIONS







ENERGY INTENSIVE INDUSTRIES







Thank you!





Name Surname RE4Industry role email address

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