

100% Renewable

Energies for

Industries

www.re4industry.eu

At a

glance



RE4INDUSTRY

Context

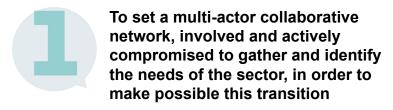
The EU has started a progressive decarbonisation with the aim to become carbon neutral by 2050. Energy Intensive Industries (EII) are expected to play an important role in this transition as they represent 24% of the final energy consumption, but a clear long-term vision and strategy is required in order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

RE4INDUSTRY

RE4Industry actions

RE4Industry methodology can be expressed through 7 action axes targeted to generate confidence, facilitate vision, provide support and ensure market options to Ells.



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



Recommendations for the uptake of RE by Ells and advocacy



Multiplication and replication



A solid dissemination and communication strategy

retrofitting and promotion of RE integration

Insights into industry

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Collaborative Network

RE4Industry clusters: GR/ES/NL/DE

Technical Experts, focused on technical feedback, approaching the topic on the technical side and on a multi-thematic level

RE4Industry Committee GR/ES/NL/DE

Policy and advocacy-oriented group at national level, acting as main national leaders in transferring the solutions developed to national decision makers

RE4Industry Expert Group: sector oriented

Sector oriented with a strategic perspective on an EU level, providing insights on the market and technical positioning of the sector

RE4Industry Committee EU

Highest-level group of RE4Industry, acting as main responsible people to shape and transfer the solutions at EU policymaking side

Share your experience & become a Success Case

Targeted technologies and applications

RE4Industry is looking for cases that have successfully implemented or are investigating integration of various forms of renewable energy sourcing in the productive processes in an Energy Intensive Industry:

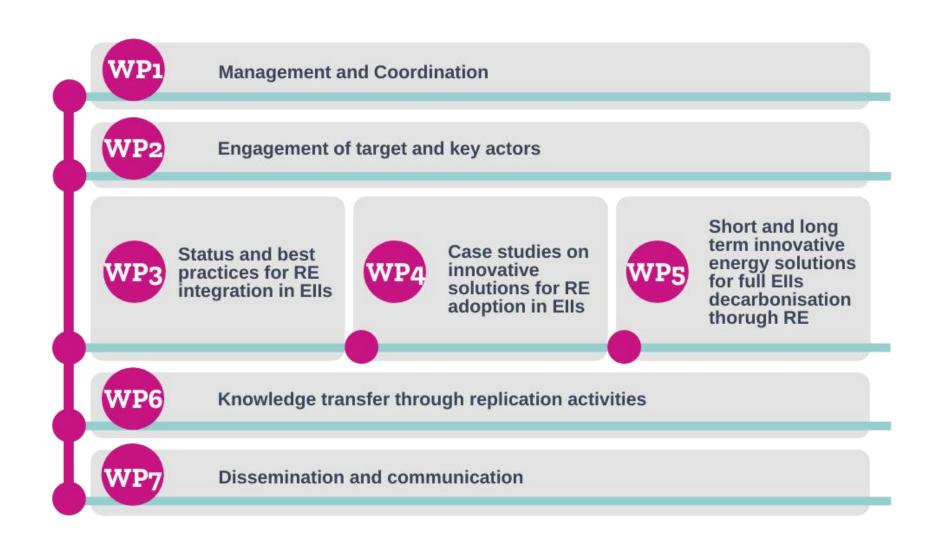
Biomass, Biogas and Biomethane, Electrification, Geothermal Heat, Green Hydrogen, Heat Pumps, Power Purchase Agreements (PPAs) for renewable electricity, Solar Heat, others...

Targeted industries

RE4Industry is primarily targeting success cases from the following Energy Intensive Industry sectors:

Cement, Lime and producers of similar mineral products (e.g. magnesite), Ceramics, Chemicals, Fertilizers, Glass, Non-ferrous metals (aluminum, copper, nickel, ferro-alloys, etc.), Steel... Your unique way to promote your company's sustainability efforts and achievements with the RE4INDUSTRY network

Project workflow



Consortium

TECHNOLOGICAL AND SOCIAL EXPERTS









RENEWABLE ENERGY-ORIENTED ASSOCIATIONS







ENERGY INTENSIVE INDUSTRIES







Thank you!





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