



RE4iINDUSTRY

Renewable energies for industries

100% Renewable

Energies for

Industries

www.re4industry.eu

**At a
glance**

RE4Industry: 100% Renewable Energies for Energy Intensive Industries

**Project Coordinator:
FUNDACION CIRCE - CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS**

11 partners from 6 countries (AT, BE, DE, ES, GR, NL)

Total EU contribution: € 2 999 500 (total cost)

Starting date: 1st September 2020 - Duration: 36 months

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 EII 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

1

To set a multi-actor collaborative network, involved and actively compromised to gather and identify the needs of the sector, in order to make possible this transition

2

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)

3

To identify, visualise and share success stories of ELLs already adopting RE with the innovations

4

To promote the early transition of ELLs by means of a direct accompaniment within companies

5

To achieve a common understanding and vision of the role that ELLs have to play towards 2050 a RE consumers and potential RE promoters

6

To promote a more favourable policy and market framework to allow the competitiveness of RE based ELLs goods

7

To ensure a growing interest and alignment of European society by means of a strong and coordinated communication campaign coherent with ELL sector messages

8

To empower the sector and key organizations through knowledge transfer, strategic positioning and cross-border actions

SHORT-TERM VISION

2030

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

LONG-TERM VISION

2050

TECHNOLOGY OPTIONS

- Conventional RE heating / power
- New RE (solar thermal, bio syngas)
- H2 (electrolysis / syngas)
- E-fuels (synthesis fuels from RE based hydrogenation 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 short-medium term)
- Expected costs for RE use

Vision

RE4iINDUSTRY

RE4Industry actions

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



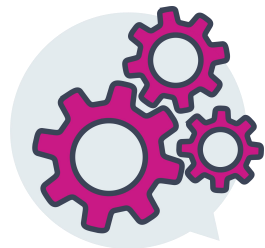
A strong engagement strategy following a multiactor approach



A dialogue with and within EILs and EIL organizations



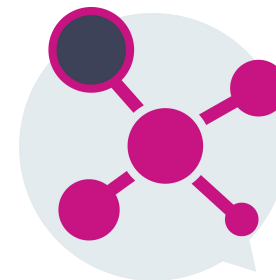
A thoughtful review of RE technologies and options for a 100% RE production by 2050



Insights into industry retrofitting and promotion of RE integration



Recommendations for the uptake of RE by EILs and advocacy



Multiplication and replication



A solid dissemination and communication strategy

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 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**

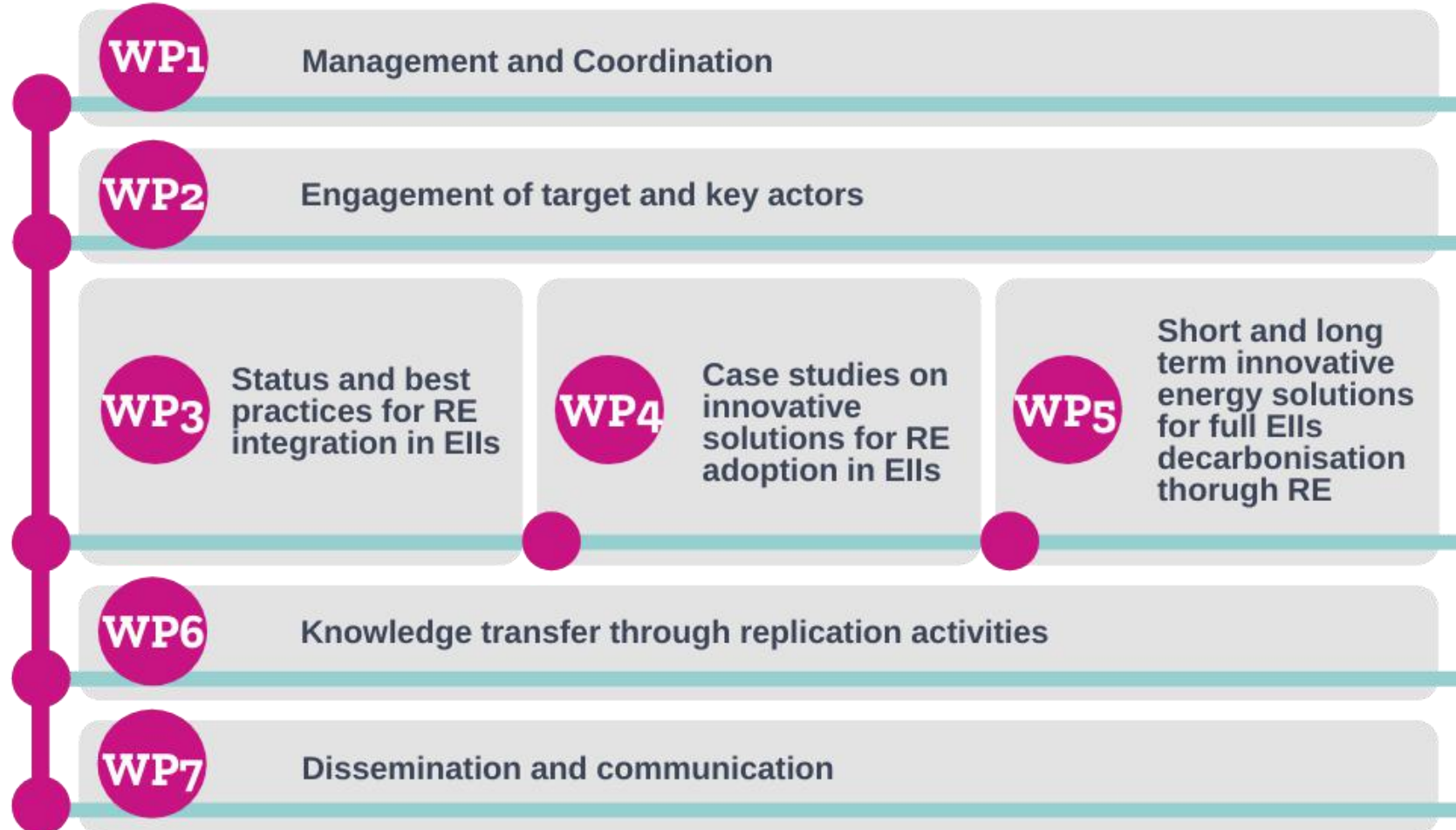
RE4Industry Committee GR/ES/NL/DE

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

RE4Industry Committee EU

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

Project workflow



Consortium

TECHNOLOGICAL AND SOCIAL EXPERTS



RENEWABLE ENERGY-ORIENTED ASSOCIATIONS



ENERGY INTENSIVE INDUSTRIES



Thank you!



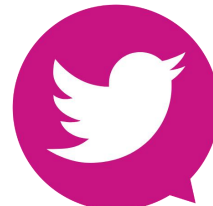
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