

RE4Industry

Factsheet

The main objective of the project is to facilitate for the **energy intensive industry (EII)** sector in Europe a **smooth and more secure transition to the adoption of Renewable Energies (RE)** in their production processes and facilities.

The project guides the EIs and their organisations in their **path for a total decarbonization towards 2050** by providing vision and **guidance** to establish their long-term strategy for a coherent and more secure retrofitting an **integration of current and future RE solutions** in their facilities and processes.

RE4Industry provides a **technology catalogue** of RE technologies currently available (regarding 2030 objectives) and to be available in the transition towards 2050. This, accompanied with roadmaps by EII sector for transition to 100% RE based production, are to be placed in hands of decision makers from EII sectors to provide a clear vision and develop their short- and long-term strategies in this transition. To this end, a thoughtfully review of existing RE technologies, technology roadmaps and papers is performed.

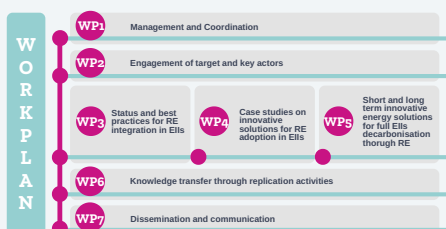
Specialised feedback and vision are gathered from targeted specialists and sector operators through **meetings**, consults to RE4Industry **expert panelists** and **dialogue through specific actions** (workshops, fora) with **RE4Industry Collaborative Network**. RE4Industry foresees the **practical exploration of such transition by supporting 3 industrial players** of the steel, aluminium and chemical sectors in the design of Action Plans for RE adoption.

What?

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 EIs 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 EIs already adopting RE with the innovations;
4. To promote the early transition of EIs by means of a direct accompaniment within companies;
5. To achieve a common understanding and vision of the role that EIs have to play towards 2050 RE consumers and potential RE promoters;
6. To promote a more favourable policy and market framework to allow the competitiveness of RE based EIs goods;
7. To ensure a growing interest and alignment of European society by means of a strong and coordinated communication campaign coherent with EII sector messages;
8. To empower the sector and key organizations through knowledge transfer, strategic positioning and cross-border actions.

How?

- A strong engagement strategy following a multiactor approach
- A dialogue with and within EIs and EII 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 EIs and advocacy
- Multiplication and replication
- A solid dissemination and communication strategy



Consortium



Vision

2030

CURRENT SECTOR NEEDS

- Existing options for retrofit
- Cases already implemented
- Lessons learned
- Insight in cost / economics
- Opportunities
- Positive social perception
- Influence for a better framework

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%

2050

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

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%

Who?

Collaborative Network

A **multi-actor network of stakeholders** that acts as a **key consultation body** offering insights into various aspects of the project. Based on their expertise, the stakeholders participate in **different RE4Industry groups at national or EU level**, offering advice on aspects such as the identification of sector needs, policy frameworks, appropriate technologies and barriers and drivers among others, thus **facilitating the industrial energy transition to RE**.

Clusters Expert Groups Committees



Industrial Success cases

Gathering experience from ongoing or planned industrial cases that have **successfully implemented** or are **investigating**, through demonstration projects, integration of various forms of renewable energy sourcing in the productive processes in an **Energy Intensive Industry**.

Project info

Coordination Fundación CIRCE
Centro de Investigación de Recursos y Consumos Energéticos

Total cost € 2 999 500
EC funding € 2 999 500

Topic LC-SC3-RES-28-2018-2019-2020
Market Uptake support

Funding Scheme
Coordination and Support Action

Duration 36 months
01.09.2020 - 31.08.2023



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N.952936. The information and views set out in this infographic are those of the author(s) and do not necessarily reflect the official opinion of the European Union. Neither the European Union institutions and bodies nor any person acting on their behalf may be held responsible for the use which may be made of the information contained therein.



RE4INDUSTRY
Renewable energies for industries

