RE4Industry

Goals & Visions

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 EIIs 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 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 EIIs 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 EIIs already adopting RE with the innovations**
4. **To promote the early transition of EIIs by means of a direct accompaniment within companies**
5. **To achieve a common understanding and vision of the role that EIIs 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 EIIs 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**

RE4Industry Vision

Short-term 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%

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 hydrogeneration of CO2 captured)

ACHIEVABLE RATES

- CO2 balance ≤ 0
- RE use = 100%

2050 Long-term vision

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RE4INDUSTRY
Renewable energies for industries