

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 Ells 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**



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

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

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

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

2030



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)



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



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

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

## **RE4Industry Vision**



- 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

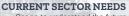
#### ACHIEVABLE RATES

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

2050

in

Long-term vision



- 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  $\leq 0$ RE use = 100%

