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## RETROFEED Process Industry Newsletter

AGROCHEMICAL • ALUMINIUM • CEMENT • CERAMIC • STEEL

Feb 2022

[The project](#)

### Last months overview



January 2022

#### **Stronger Industry for a more Independent Europe**

Under the French Presidency of the Council of the European Union, this videoconference took place on January 13th, and intended to explore the requirements for strengthening the European Union's strategic autonomy. Senior Public Officials and private-sector leaders further discussed the work that has already been undertaken by the European Commission and the Member States to identify and address vulnerability and dependence in critical industries.

[Watch the video](#)



January 2022

#### **RETROFEED Milestones and main activities in 2021**

With the beginning of a new year, it is always time to overview the previous one. 2021 came full of measures and restrictions, which make everything a bit more difficult, despite that, RETROFEED partners were still able to carry out the main activities that will lead us to achieve the projects' final goals.

[Read the full article](#)



January 2022\

#### **Research & Development in Power Engineering (RDPE)**

The conference, held in Poland between November 30th and December 3rd, 2021 counted on the participation of many area experts and researchers, having been considered an important event to shape the European energy sector. The study "Petroleum coke and refuse-derived fuel co-firing enhanced with hydrogen in an industrial cement kiln - a CFD study" carried out within the RETROFEED project was presented by the Institute of Power Engineering (IEN).

[Find out more](#)

November 2021

#### **International Conference on Material Science and Technology (IMSTEC'21)**

Cappadocia was the stage of this event that aimed to present current research being carried out in areas like Materials Science Engineering, Mechanical Engineering,



Physics, or Chemistry. Having been, therefore, a great opportunity for delegates to exchange new ideas and application experiences. ASAS Aluminium A.S. presented the “Development of Decision Support System based on Machine Learning and Digital Twin models for aluminium melting furnaces”, which goal is to increase the performance of aluminium melting furnaces by novel monitoring and control system and implement O<sub>2</sub> injector and burner heads to increase the amount of scrap feedstock.

[Check it out](#)

## Coming up in 2022



**Key year for the RETROFEED project!**  
Next developments and first results coming up.

Stay tuned.

[Check it out](#)

## Upcoming Events

[Full list here](#)

### **Decarbonisation of the Energy Intensive Industries - through renewable energies** 7 FEB 2022

The online webinar will focus on the decarbonisation of the Energy Intensive Industries through renewables as one of the possible pathways for the energy transition.

[Register here](#)

### **EU Industry Days** 8-11 FEB 2022

#EUIndustryDays are back! This event highlights industrial frontrunners and ongoing industrial policy discussions whilst improving the knowledge base of European industry.

[Read more](#)

### **Green Steel: CBAM and ETS** 9 FEB 2022

CBAM and ETS - Do their current designs aid EU climate ambitions? This EURACTIV Virtual conference will discuss the impact of the CBAM and ETS mechanisms on the steel industry.

[Check it out](#)

### **Disruptive bioenergy technologies: delivering decarbonisation of industrial processes** 22 FEB 2022

Under EU Industry Weeks, BioEnergy Europe brings an event that will allow participants to discover the innovations taking place within the bioenergy industry.

[Know more](#)

### **World Sustainable Energy Days 2022** 6 - 8 APR 2022

“Energy transition - full speed ahead!” - join multiple discussions on the far-reaching transformation of policies, technologies and markets for achieving climate neutrality, and how to raise the pace of change.

[Find out more](#)

### **European Conference on Industrial Furnaces and Boilers (INFUB)** 19 - 22 APR 2022

Under Retrofeed’s project, IEN will be presenting at the conference’s 13th edition. Its main objective is to provide an improved up-to-date understanding of the fundamentals of industrial furnaces and boilers.

[Read more](#)

## Hot off the press

[European Commission public consultation launched on renewables permitting and power purchase agreement](#)

[Economic and Steel market outlook - Fourth quarter 2021 report by EUROFER \(The European Steel Association\)](#)

[How hydrogen can decarbonize the steel industry — and what it will take](#)

[The road to energy efficiency - study requested by the Industry,](#)

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## About RETROFEED

RETROFEED main objective is to enable the use of an increasingly variable, bio-based and circular feedstock in process industries through the retrofitting of core equipment and the implementation of an advanced monitoring and control system, and providing support to the plant operators by means of a DSS - Decision Support System - covering the production chain. This approach will be demonstrated in five resource and energy intensive sectors (ceramic, cement, aluminium, steel, and agrochemical) with the potential to reach in average an increase of 22% in resource efficiency and 19% in energy efficiency, with a consequent reduction in costs and GHG emissions of 9.3 M€ and 135 kton CO2 respectively. Funded by the Horizon 2020 programme, it is a SPIRE 2030 initiative.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N.869939

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