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RETROFEED TO EXHIBIT AT ENLIT EUROPE FOR FIRST TIME

RETROFEED will be on the EU projects zone for explaining the main achieved results related to digitalisation and circular economy

RETROFEED project, which 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, the implementation of an advanced monitoring and control system, and the support to the plant operators by means of a DSS – Decision Support System – will be at Enlit Europe, which takes place 29 November - 1 December 2022 in Frankfurt, Germany.

This approach is being demonstrated in 5 Resource and Energy Intensive Industries (REIIs): Torrecid (Spain) in the ceramic frits sector, Secil (Portugal) in the cement sector, ASAS (Turkey) in the aluminium sector, Ferriere Nord (Italy) and Tenaris Silcotub (Romania) in the steel sector and Fertiberia (Spain) in the agrochemicals sector. REIIs require large quantities of material and energy inputs to meet the demands of their production processes therefore the environmental footprint resulting from these operations is quite substantial and must be reduced to attain more sustainable business practices. RETROFEED is targeted at modifying core process equipment in REIIs to boost energy and material utilisation efficiencies, reduce greenhouse gases (GHG) emissions and replace traditional feedstock with biobased and recycled alternatives. The proposed integration strategy is based on the latest Industry 4.0 assets, including but not limited to development of novel sensors, digitalisation tools and decision support systems that will facilitate the adoption of new practices while maximising performance objectives.

“I am confident that we will come up with very interesting and practical developments that will be easily transferable to other industries and industrial sectors. With this, we are doing our bit to help in the decarbonisation of the industrial sector” said Diego Redondo, RETROFEED’s project coordinator from CIRCE.

Moreover, Optit, the main digital partner in the project, closely worked with the industrial partners and the research centres to develop what is called a Decision Support System (DSS) specifically designed to monitor, analyse, and simulate the core processes exploiting a series of advanced digital models tailor made for each project use case. Modelling approaches span from CFD-Reduced order models (ROM), machine learning, optimization and first order models of side processes in order to mimic, as closely as possible, the industrial process introducing a first level of optimization intelligence. The DSS was designed as a web app and developed with two different approaches: one for batch type processes (e.g., Steel, Aluminum) and the other for continuous process (e.g., Ceramic, Cement) with



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the possibility to simulate the process using the models embedded and monitor current operations thanks to a series of “connectors”, specifically developed for the project, to gather data from the various plant systems.

“The DSS that was developed in the past couple of years is a platform specifically designed to handle complex data structures, algorithms, and models in a very flexible way. Due to its capability to being adapted to different sectors it can represent the basis for the next generation of digital tools for the industrial sector, supporting operations and plant managers in taking more informed decisions to increase competitiveness in the global markets” said Optit’s CEO Matteo Pozzi.

Come and meet us on EU projects zone at Enlit Europe, which takes place 29 November - 1 December 2022 in Frankfurt, Germany. Visitor registration is open now at <https://www.enlit-europe.com/> and you can register directly via our invite, for a free Visitor Pass or a Summit Pass at a discounted rate: <https://www.enlit-europe.com/exh-invite-link>

About RETROFEED project:

[RETROFEED](#) project (Implementation of a Smart RETROfitting Framework in the Process Industry towards its Operation with Variable, Biobased and Circular FEEDstock) has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement N.869939. Consortium is composed by six industrial sites corresponding to five distinct industrial sectors (Torrecid in the ceramic frits sector, Secil in the cement sector, ASAS in the aluminium sector, Ferriere Nord and Tenaris Silcotub in the steel sector and Fertiberia in the agrochemicals sector), five Research and Technological Development Centres (CIRCE, AIMEN, IEN, RINA-CSM and IVL), two specialised engineering firms (HTT and STEK), three environmental and energy consulting firms (EEIP, RINA-C and GEO) and two Information Technology firms (ODYS and OPTIT). Find more information on the project’s social media channels: [LinkedIn](#); [Twitter](#).

About Enlit Europe:

Enlit Europe is your inclusive guide to the energy transition. Taking place in Frankfurt from 29 November-1 December 2022, it brings together over 18,000 power professionals – established players, external disruptors, innovative start-ups and the increasingly engaged end-user – to seize current opportunities, spotlight future ones and inspire the next generation to participate in the energy transition journey.

Enlit Europe is organised by Clarion Energy, which is part of Clarion Events and, with over 40 events that cover the oil, gas, power and energy sectors, is one of the group’s largest portfolios.

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