

The e-CODUCT project is funded under Horizon Europe Grant Agreement n°101058100

INVITATION

The **National Institute of Chemistry** and **Centre of Excellence Low-Carbon Technologies (CO NOT)** cordially invite you to the opening of a

PILOT-SCALE ELECTROTHERMAL FLUIDISED BED REACTOR developed in the Horizon Europe project e-CODUCT

Date: Tuesday, 8 April 2025, 9.30 a.m.

Location: Reactor Center Podgorica, Brinje 40, 1262 Dol pri Ljubljani, Slovenia [map](#)

The [e-CODUCT](#) project brings together nine European partners under the coordination of Ghent University. The aim is to reduce greenhouse gases (CO₂) and acid gases (H₂S) - the main pollutants emerging in industrial processes - and simultaneously converting these by-products into valuable industrial chemicals such as carbon monoxide (CO) and sulphur (S).

The developed innovative e-CODUCT approach is based on the use of electrothermal catalysis and renewable energy and enables the pilot reactor to reduce emissions while utilising the waste gas streams to produce useful, valuable industrial chemicals. The innovative process is applicable to the petrochemical industry (oil, gas, chemical processing), biogas production and the energy sector looking for cross-sector coupling business opportunities.

The pilot reactor (TRL 6) was developed under the leadership of the Centre of Excellence Low-Carbon Technologies and the Department of Catalysis and Chemical Reaction Engineering of the National Institute of Chemistry, partners in the e-CODUCT project, and is located at the Reactor Center Podgorica (Institut Jožef Stefan). The pilot is important on European level, as it contributes to the development of industrial decarbonisation technologies and innovations. Among other things, the event offers the opportunity to discuss with the partners of the e-CODUCT consortium.

Agenda

9:00	Guest arrival	
9:30	Introduction to the e-CODUCT project (for external participants)	Prof. Joris Thybaut, Ghent University <i>e-CODUCT coordinator</i>
9:45	Thermal & Material Engineering Center LLC , subcontractor, involved in the project	Prof. Dr. Mykhailo Hubinskyi, <i>T&MEC</i>
10:00	CPPE Inženiring d.o.o. , subcontractor, involved in the project	Dr. Jernej Mele, CPPE d.o.o. <i>director</i>
10:15	Colbyco inženiring in projektiranje d.o.o. , subcontractor, involved in the project	Janko Kolbas, Colbyco d.o.o. <i>director</i>
10:30	IJS - Institut »Jožef Stefan« , subcontractor, involved in the project	Doc. Dr. Gašper Tavčar, IJS <i>Head of the Department of Inorganic Chemistry and Technology</i>
10:45	Move to the pilot hall	
11:00	Opening of the pilot	Prof. Joris Thybaut, Ghent University Prof. Miran Gaberšček, CO NOT
12:00	Lunch and open discussion	

The event will be in English. [REGISTRATION](#) is mandatory (by 4.4.2025).

Kindly invited!