

Towards Zero Pollution in the Production of Green Fuels and Chemicals

4th June 2021, 10:00 – 12:35 CEST

About The Webinar

Despite the progress made in decreasing the impact of the industrial sector in Europe, a great challenge still exists in lowering its carbon footprint by progressively substituting the use of fossil fuels. A paradigm shift is needed in the manufacturing of chemical goods and high value added products, where disruptive technologies will play a key role to achieve the climate change targets for 2050. The European Commission is investing in those technologies with the aim to develop negative emission solutions and lower Europe's carbon footprint.

The coupling of renewable energies with carbon capture and utilisation is one of the envisaged solutions. The research community in Europe is driving this development through a strong collaboration between academia, industry and policy-makers. Solutions for distributed production of chemicals involve direct solar energy conversion technologies, whereas large-scale production requires a more integrated coupling of renewables with catalytic processes.

In this webinar, we will examine which technologies are currently under development in Europe with examples from six recently funded projects.

Agenda

10:00 - 10:10: Welcome & Introductions

10:10 - 10:20: European Commission representative - European strategy for a zero-emission industrial sector

Part 1: Direct Solar Energy Conversion Technologies

10:20 - 10:35: Integrated Reactors For The Production Of Green Ethylene



FLOWPHOTOCHEM project

www.flowphotochem.eu

10:35 - 10:50: Photoelectrocatalytic Device For Sun-Driven CO₂ Conversion Into Green Chemicals



SUNCOCHEM project

www.suncochem.eu

10:50 - 11:05: Advanced Photoelectrocatalytic Devices For Coupling Bio- And Solar-Refinery



DECADE project

www.decadeproject.eu

11:05 - 11:15: Break

Part 2: Coupling Renewables with Electrocatalytic Conversion Solutions

11:15 - 11:30: The New C2 Value Chain From CO₂ Electrocatalytic Reduction



OCEAN project

www.spire2030.eu/ocean

11:30 - 11:45: Recycling Carbon Dioxide In The Cement Industry To Produce Added-Value Additives: A Step Towards A CO₂ Circular Economy



RECODE project

www.recodeh2020.eu

11:45 - 12:00: Training Network For (Photo)Electrocatalytic Conversion Of Valuable Chemicals



SOLAR2CHEM project

www.solar2chem.eu

12:00 - 12:15: SUNERGY Initiative: bringing research community together



SUNERGY

www.sunergy-initiative.eu

12:15 - 12:35: Panel Discussion and Q&A