

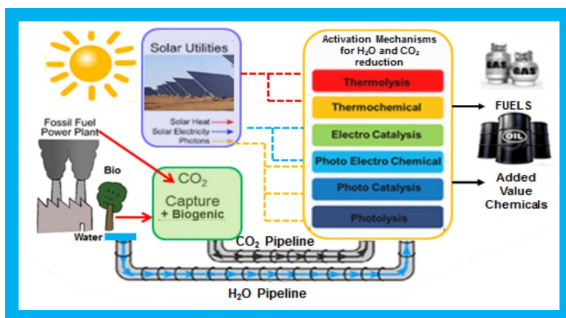
CO₂ Capture & utilization

CO₂ conversion is into fuels or other added value products one of the most promising methods to decrease greenhouse gases emission and control the global warming.

Going to a real circular economy in the field of synthetic fuels is a challenge and many technologies are under development trying to solve the problem. In fact, processes are well studied in a lab scale, but problems in up-scaling arise due to plant engineering, durability of materials or elevated cost of implementation and maintenance. These aspects rise to a non-competitive fuel Production from precaptured CO₂ in respect to traditional fuels.

In this workshop we underline some projects that are under development in Catalonia from both experimental and theoretical point of view.

You are invited to come and join us!



Venue: IREC, Jardins de les Dones de Negre 1,
2nd floor, Barcelona.

Date: 17th December 2015

Free Online Inscription

Program

9:00-9:15	Registration
9:15-9:30	<i>Welcome</i> Dr. Raúl Benages, XARMAE developer. IREC. Silvia Chelini, XRQTC, FBiG-UB
9:30-10:00	CO ₂ capture and utilization: where are we today and where are we going? Dr. Lourdes F. Vega Alya Technology & Innovation, SL
10:00-10:30	CO ₂ conversion by transition metal carbides based catalyst: Computational modeling and experiments Prof. Dr. Francesc Illas, Dep. de Química Física & IQTCUB. UB. Barcelona
10:30-11:00	High-pressure catalytic conversion of CO ₂ to chemical energy carriers Dr. Atsushi Urakawa, ICIQ
11:00-11:30	Coffee-networking
11:30-12:00	Materials and Processes for the Thermochemical Production of Solar Fuels Dr. Juan M. Coronado, IMDEA, Madrid
12:00-12:20	CO ₂ valorization to fuels based on a photoelectrochemical process Dr. Teresa Andreu, IREC
12:20-12:40	High Temperature Co-electrolysis of CO ₂ and Water for Chemical Energy Storage Dr. Albert Tarancon, IREC

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