

## CO<sub>2</sub> utilisation focused on market relevant dimethyl ether production, via 3D printed reactor and solid oxide cell based technologies

CO<sub>2</sub>Fokus project will develop a cutting-edge technology able to convert industrial CO<sub>2</sub> into DME, a gas with strong potential to add value when used in the chemical and energy sectors.

### CO<sub>2</sub>FOKUS TECHNOLOGY DEVELOPMENT STEPS



CATALYST DEVELOPMENT



REACTOR CONSTRUCTION USING 3D PRINTING TECHNIQUES



SOLID OXIDE ELECTROLYSER CELL SYSTEM MANUFACTURE



PROTOTYPE TESTING IN INDUSTRIAL ENVIRONMENT

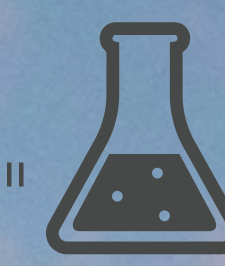
### DME CAN BE



A CLEAN ENERGY SOURCE WITH **HIGH COMBUSTION QUALITY** AND LOW TOXICITY



AN INTERMEDIATE FOR THE **SYNTHESIS** OF SEVERAL VALUE-ADDED PRODUCTS (PETROL, AROMATICS AND OLEFINS)



AN ETHER USED AS **CHEMICAL FEEDSTOCK**

### THE PROCESS TO OBTAIN DME

