P1: CO_2 utilisation focused on market relevant dimethyl ether production, via 3D printed reactor and solid oxide cell based technologies

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This poster will showcase a newly started project, CO2Fokus (www.CO2Fokus.eu), that brings together six research organisations and six industrial partners. The project is developing cutting-edge technology able to convert industrial CO_2 into DME, a valuable gas extensively used in the chemical and energy sectors providing an alternative to fossil fuel derived feedstock.

To this end, innovative 3D printed multichannel catalytic reactors and solid oxide electrolyser cells are being developed and will be tested in an industrial environment, with a CO_2 point source at end-user facilities to evaluate its integration and operation under process relevant conditions.

The use of DME as a fuel is particularly important, since it can fulfill the ever-increasing demand for alternative, carbon-neutral, environmentally-friendly fuels and chemical and energy carriers, reducing the dependence on non-renewable sources.

CO2FOKUS
ADVANCING CO2 CONVERSION

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