The project goal is to develop a cutting-edge technology allowing to convert industrial  $CO_2$  into DME (Dimethyl Ether), a valuable gas extensively used in the chemical and energy sectors, providing an alternative to fossil fuelderived feedstock.

The technology developed includes 3D printed catalysts, multi-channel catalytic reactors and solid oxide electrolyser cells to produce DME in a direct and efficient way, in the right direction towards a low-carbon society.













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## CO<sub>2</sub>FOKUS TECHNOLOGY INCLUDES:





3D PRINTED
MULTI-CHANNEL
CATALYTIC REACTORS



SOLID-OXIDE ELECTROLYSER CELLS



HIGHLY SELECTIVE AND DURABLE CATALYSTS The Multi-tubular reactor with 3D printed monoliths has finally been delivered to Turkey and is being integrated for testing by SOCAR

Solid oxide electrolyser has been up and running again for 1000 hours of operation and is able to produce 3kg of H<sub>2</sub>/day

The best catalyst formulation has been tested, manufactured and 3D printed



Scaling up the technology could make a decisive contribution to the decarbonisation of industry, taking a major step forward in tackling climate change.