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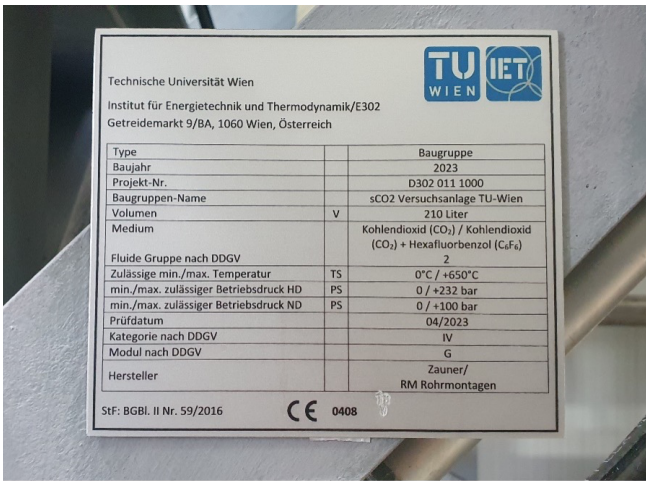
H2020 LCE program
Grant Agreement number 814985

Supercritical CARbon dioxide/Alternative fluids Blends for Efficiency Upgrade of Solar power plant

-PRESS RELEASE-

The test rig of the SCARABEUS project at the Technical University of Vienna (TUW) has been commissioned successfully. The steps involved since the beginning of the project were: a HAZOP study, a design review, and the official commissioning. All these steps were taken under the guidance of the notified body in Austria (TÜV Austria).

The original test facility existing at TUW was modified to a recuperated Rankine cycle. In the first test campaign, the novel heat exchangers with pure CO_2 will be examined: the recuperator (a printed circuit heat exchanger) and the air-cooled condenser – both from the project partner Kelvion Thermal Solutions. A brand new gas burner and the attached Inconel primary heater will supply the testing section of the facility us with flue gas at 850 °C and heat up the CO_2 to 650 °C.



SCARABEUS is a 48-month project starting in April 2019 and ending in March 2023, coordinated by Prof. Giampaolo Manzolini, Politecnico di Milano (Italy). The project is funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No 814985.

SCARABEUS partners	
Academia and R&D	**Industry**
Politecnico di Milano (IT)	Baker Hughes (IT)
University of Seville (ES)	Kelvion (FR)
City, University of London (UK)	Abengoa (ES)
Vienna University of Technology (AT)	Quantis (CH)
University of Brescia (IT)	

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