

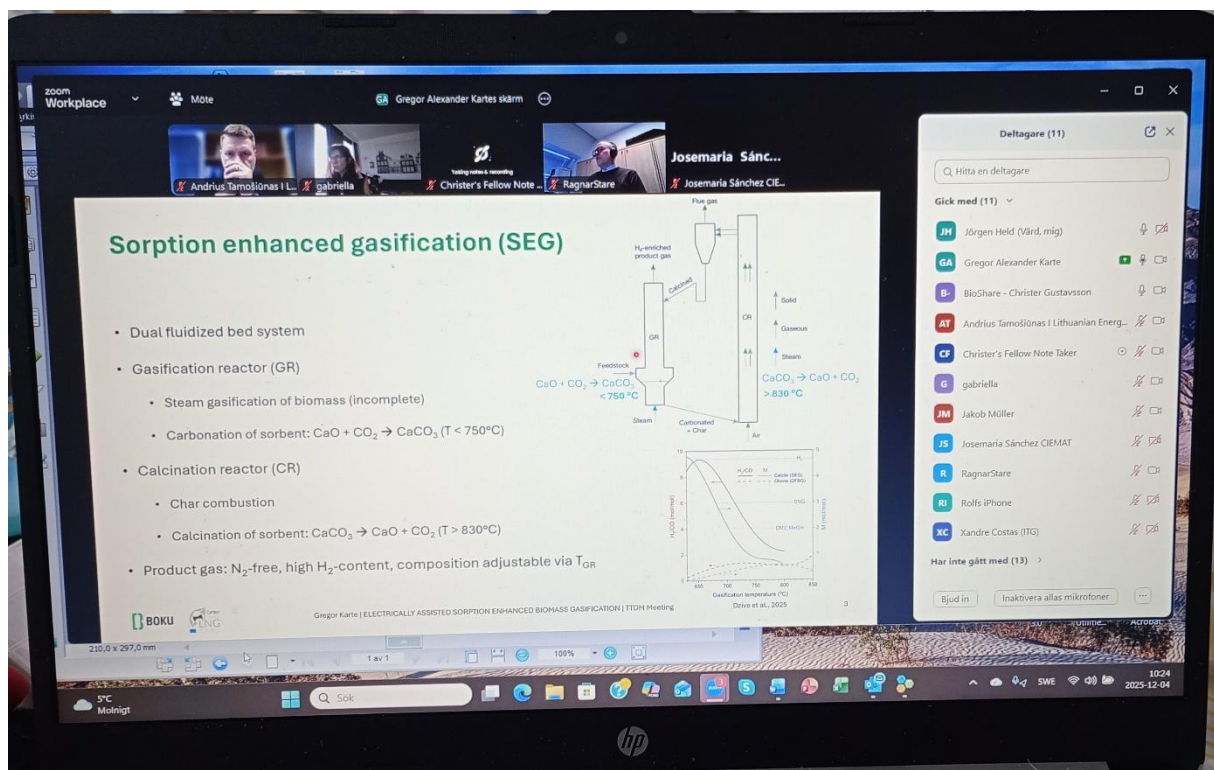
3rd TTDM Board meeting

Today, 4th of December 2025, the 3rd Technology Transfer and Dissemination Multiplier (TTDM) Board meeting took place as an online event, organised and moderated by Jörgen Held, BEIC.

Since the focus was on the patented e-gasifier system and the novel combined tar reformer/methanation reactor, external gasification experts from EnergyLab (ES) and BioShare AB (SE) were also invited.

The TTDM Board consists of high position representatives from Air Liquide (FR), St1 Biokraft (SE), CIEMAT (ES), CarbioNova AB* (SE), European Biogas Association (BE), Ingenieurbüro Thema (DE), Lithuanian Energy Institute (LT) and Tokyo Gas (JP).

*Has replaced Cortus Energy AB



Screenshot taken by Jörgen Held, BEIC, during the presentation of the e-gasifier.

Jakob Müller, project coordinator FAU, gave a [technical overview](#) of the CarbonNeutralLNG project, describing the technical concept, key challenges and current achievements and highlights.

Gregor Karte, BOKU University presented the patented [electrically assisted sorption enhanced biomass gasifier](#). By eliminating the need of char combustion through direct electrification, product gas yield per biomass input is maximized.

Jakob Müller, FAU presented [ADDmeth - 3D-printed catalytic methanation reactor](#). The manufacturing of the complicated geometry with embedded heat pipes and steam generator is made possible through 3D-printing. In this way it is possible to control the temperature profile to reform tar components at high temperature (550-600 °C) and optimize methane yield at lower temperature at the outlet (~250 °C).

Some of the questions on the presentations were rather technical (e.g., what is the surface temperature of the electric heating?) while others were more of a general character (e.g., how to operate the gasifier using cheap intermittent electricity?).

The final product in the CarbonNeutralLNG concept is liquefied green LNG or bioLNG. Jörgen Held took the opportunity to highlight that the market for bioLNG in Sweden has increased ten-fold in the last five years and that St1 Biokraft (member of the TTDM board) is building both bioLNG production facilities and filling stations for bioLNG.

Jörgen Held
TTDM Board manager