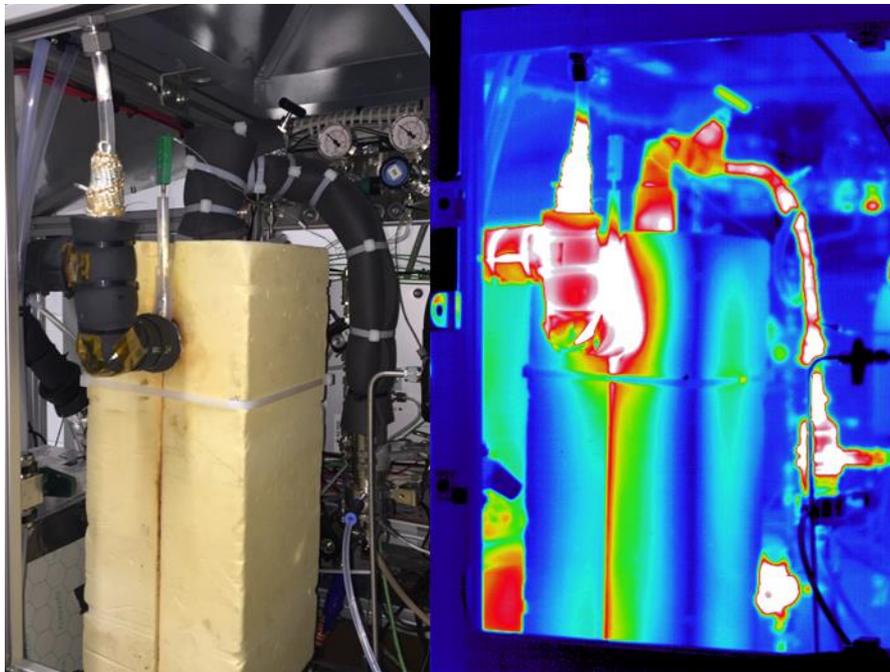
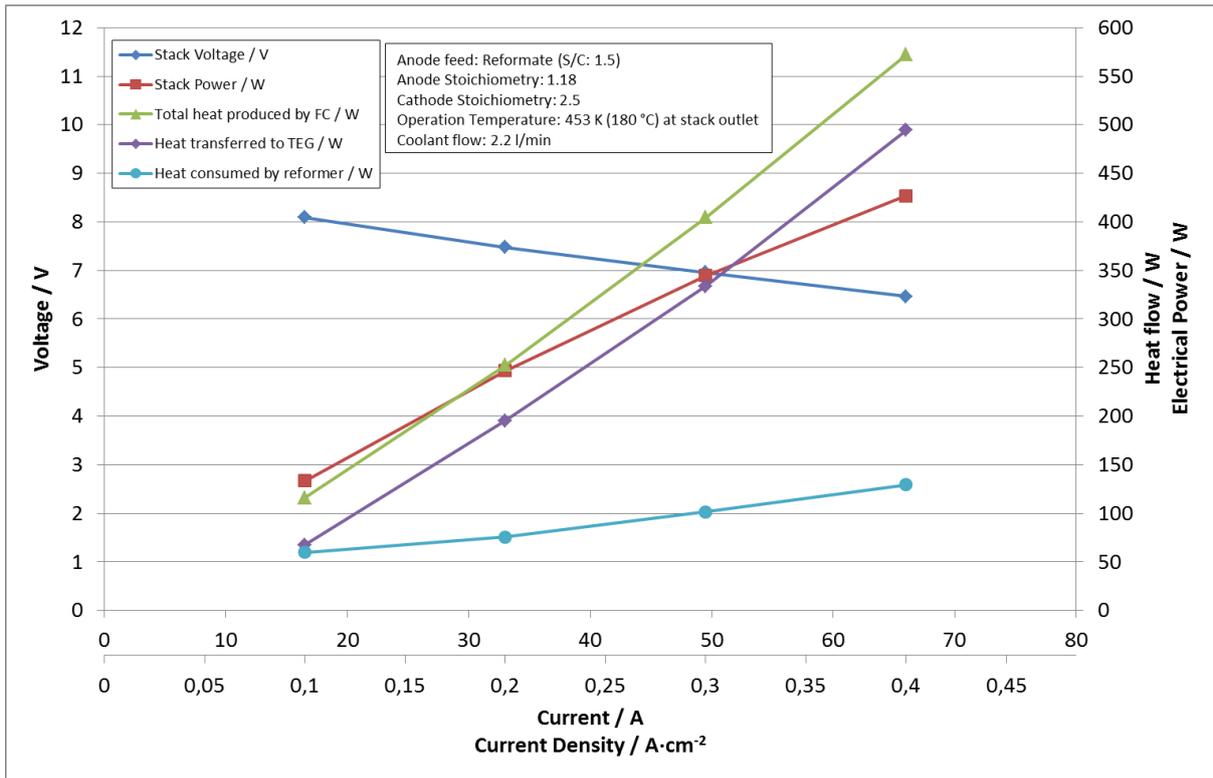




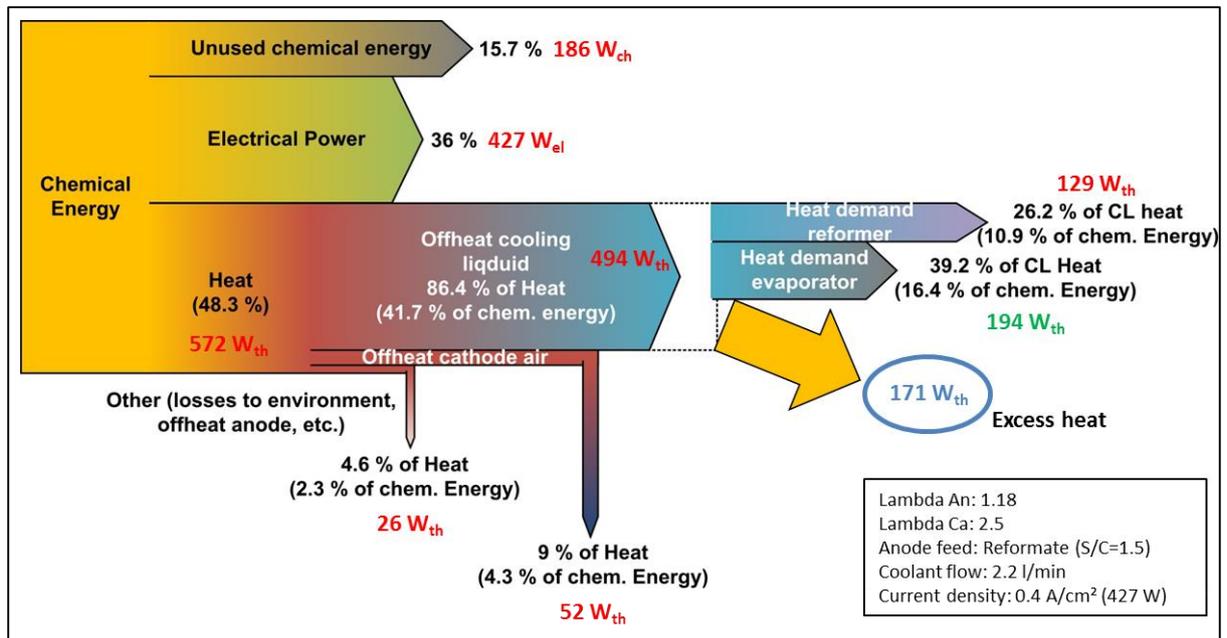
Test bench developed in WP4 for coupled system testing



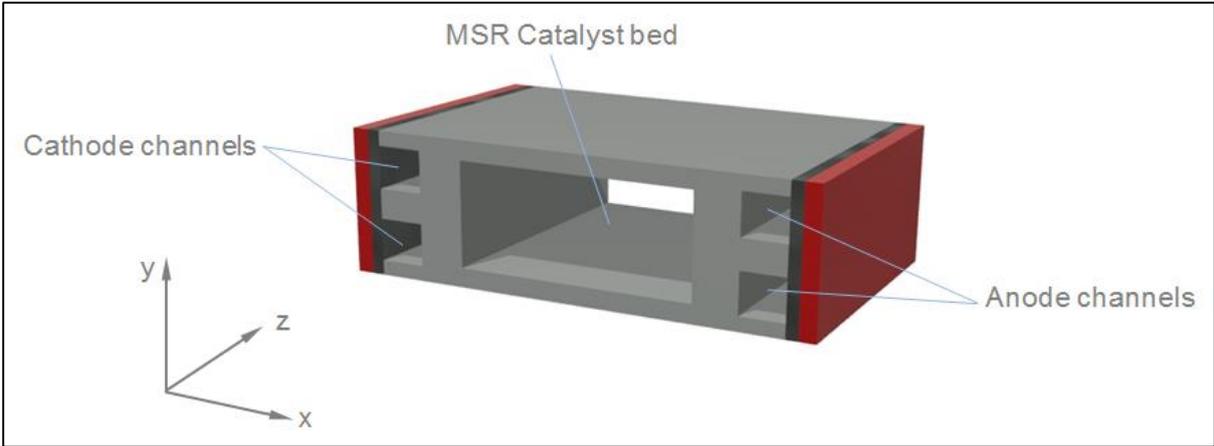
IR heat loss analysis of tube shell reformer



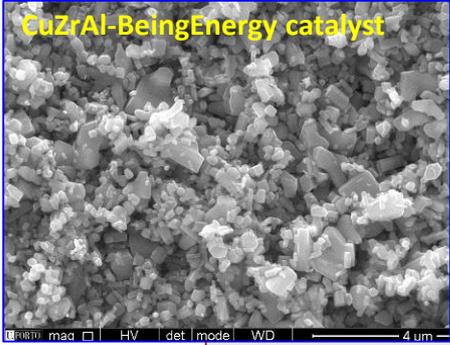
Coupled system performance. Plate type HEX methanol reformer coupled with 12-cell HT-PEMFC



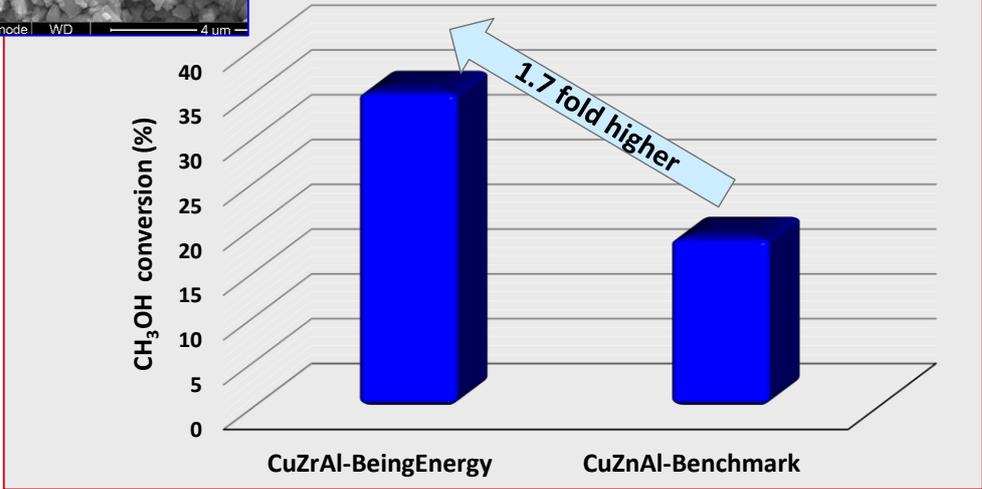
Sankey plot of system heat and energy balance at maximum power output (427 W_{el})



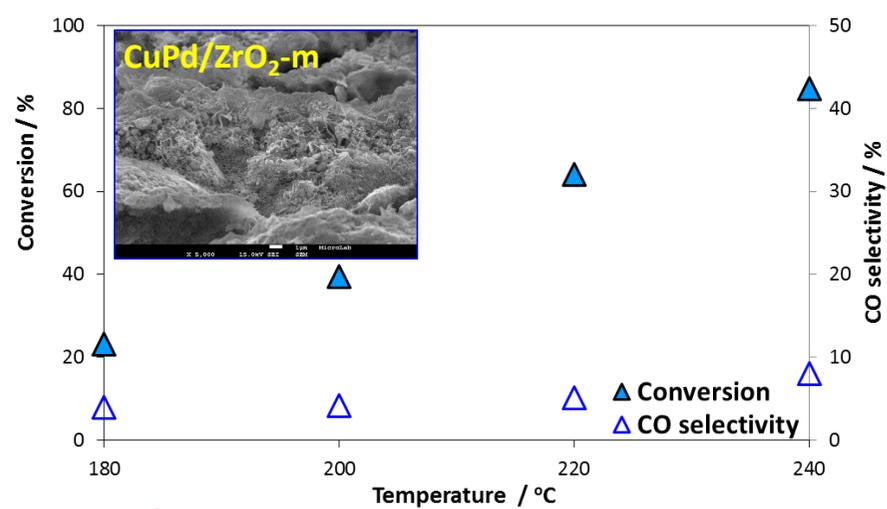
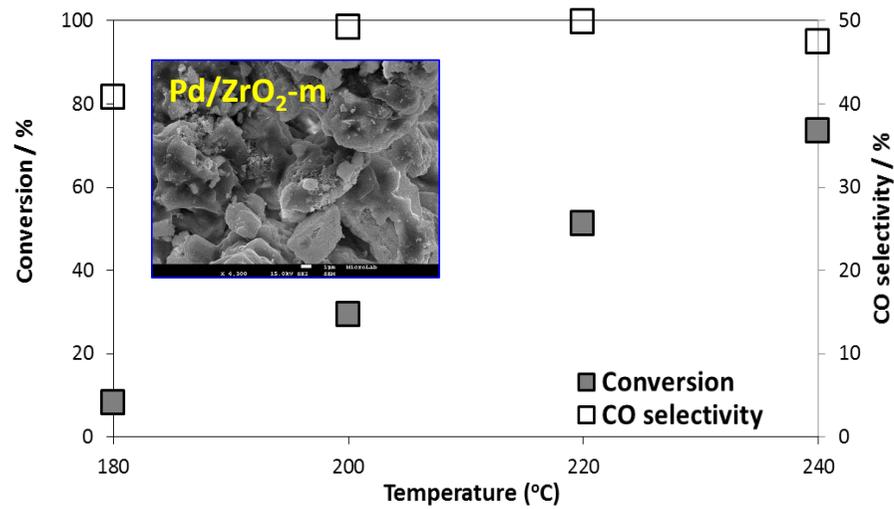
CAD-Drawing of the internal reforming fuel cell concept



180 °C; W/F= 30 kg·mol⁻¹·s⁻¹

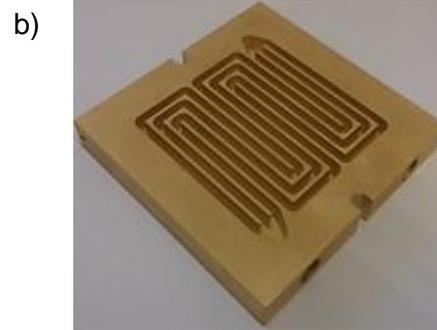
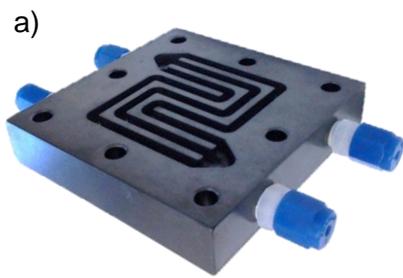


Developed catalyst



Higher conversion
Higher selectivity (↘↘ CO)



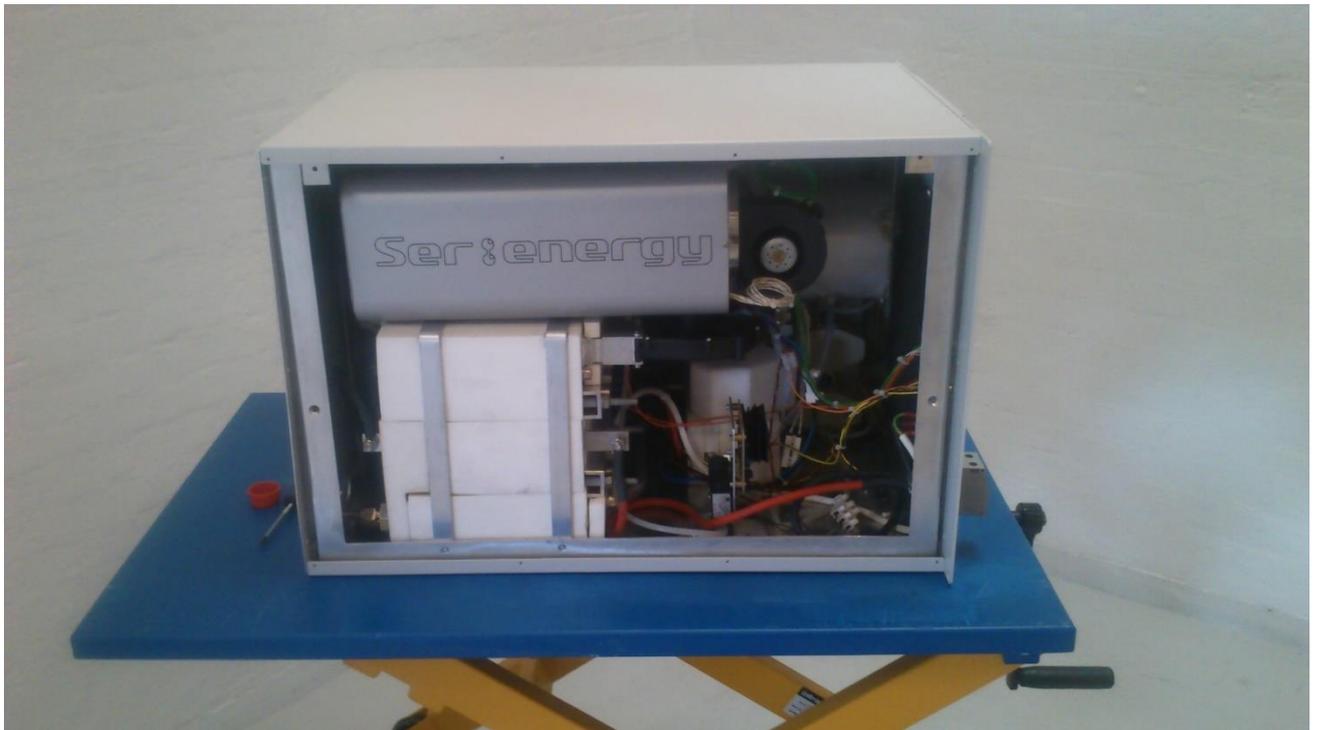


Bipolar plate for cellular reformer a) 25 cm² made of PPS and b) 45 cm² made of aluminium with gold plating





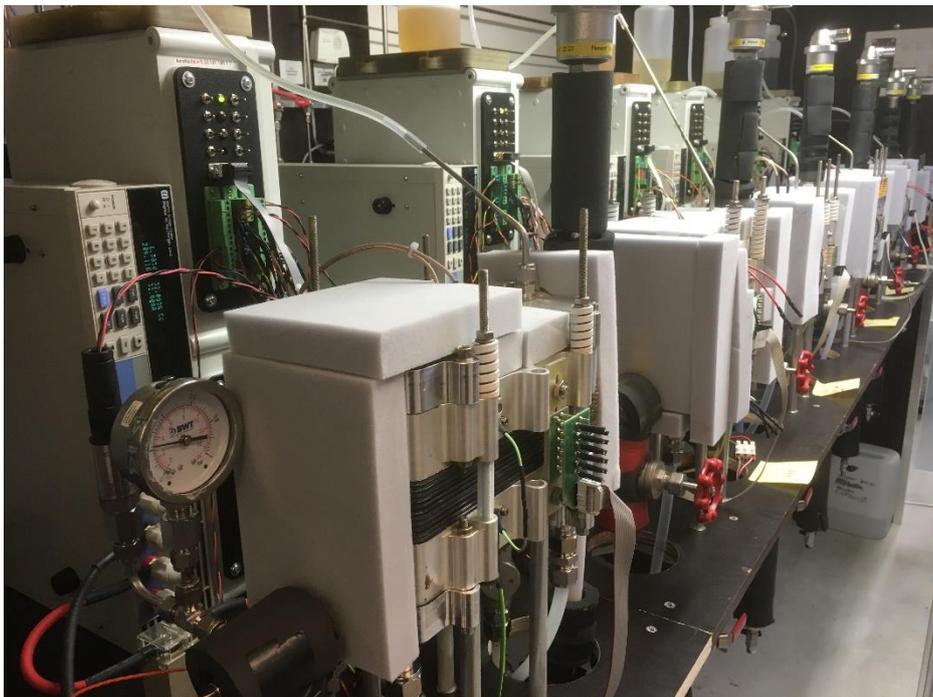
Fuel cell system seen form the front/side



Fuel cell system seen from the side

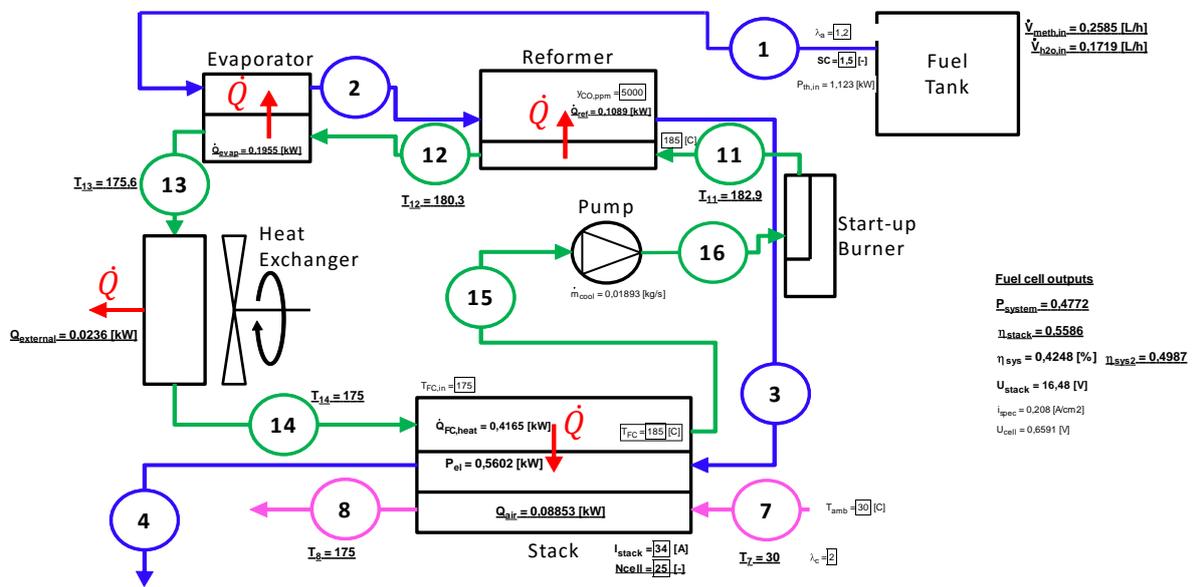


Fuel cell as used in the system





Test setup for long term testing. Here cabin with 6 simultaneous running 10 cell stacks



System diagram