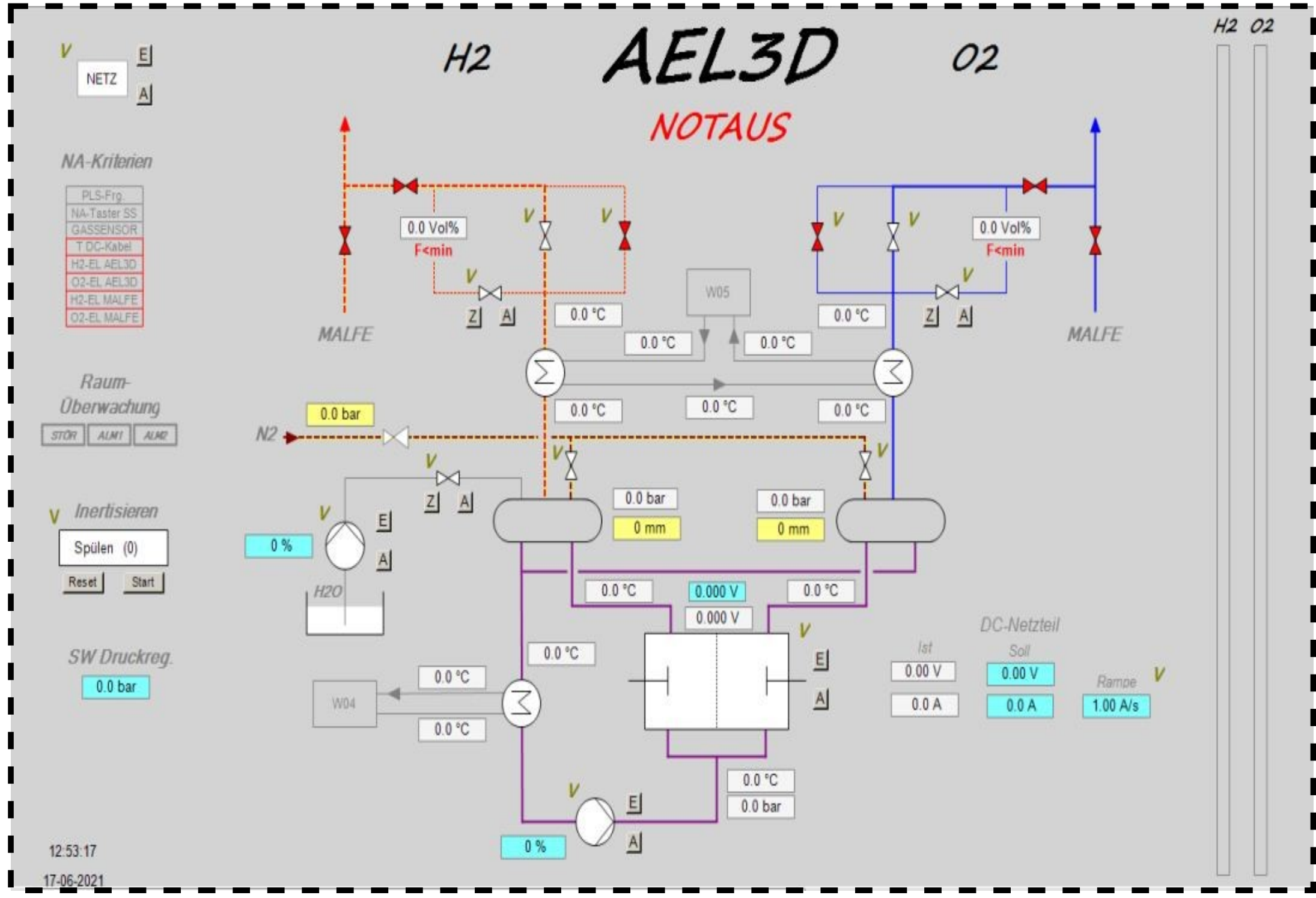
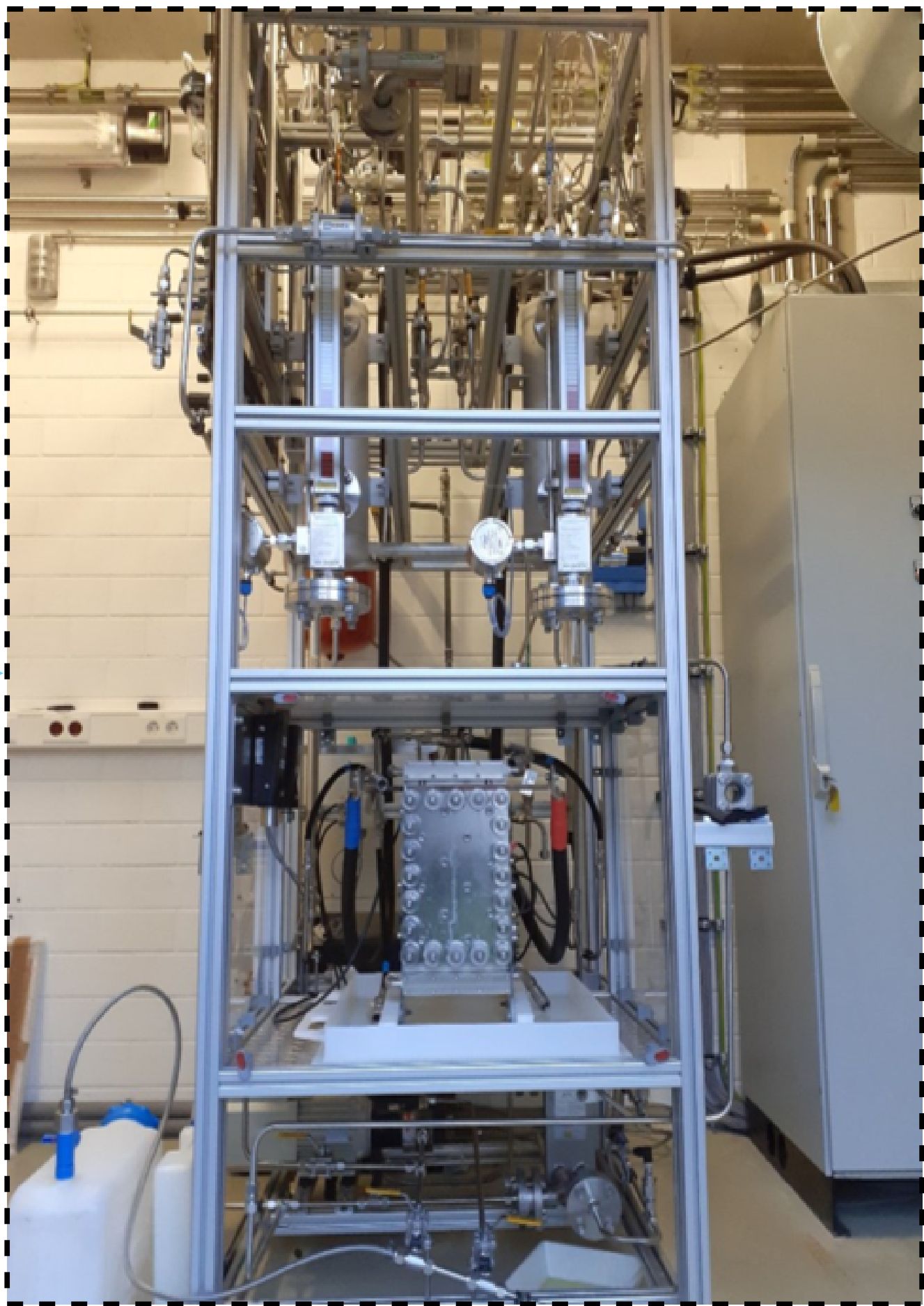
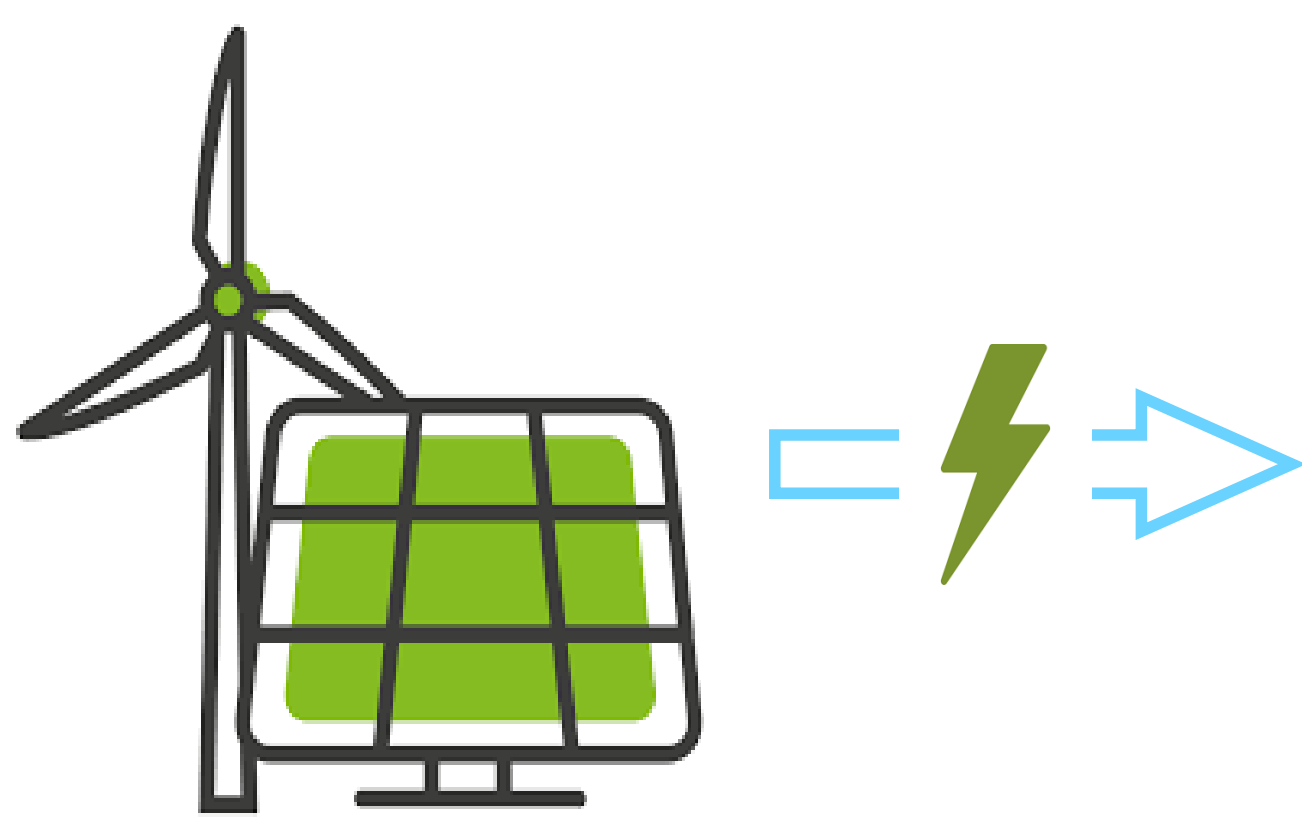
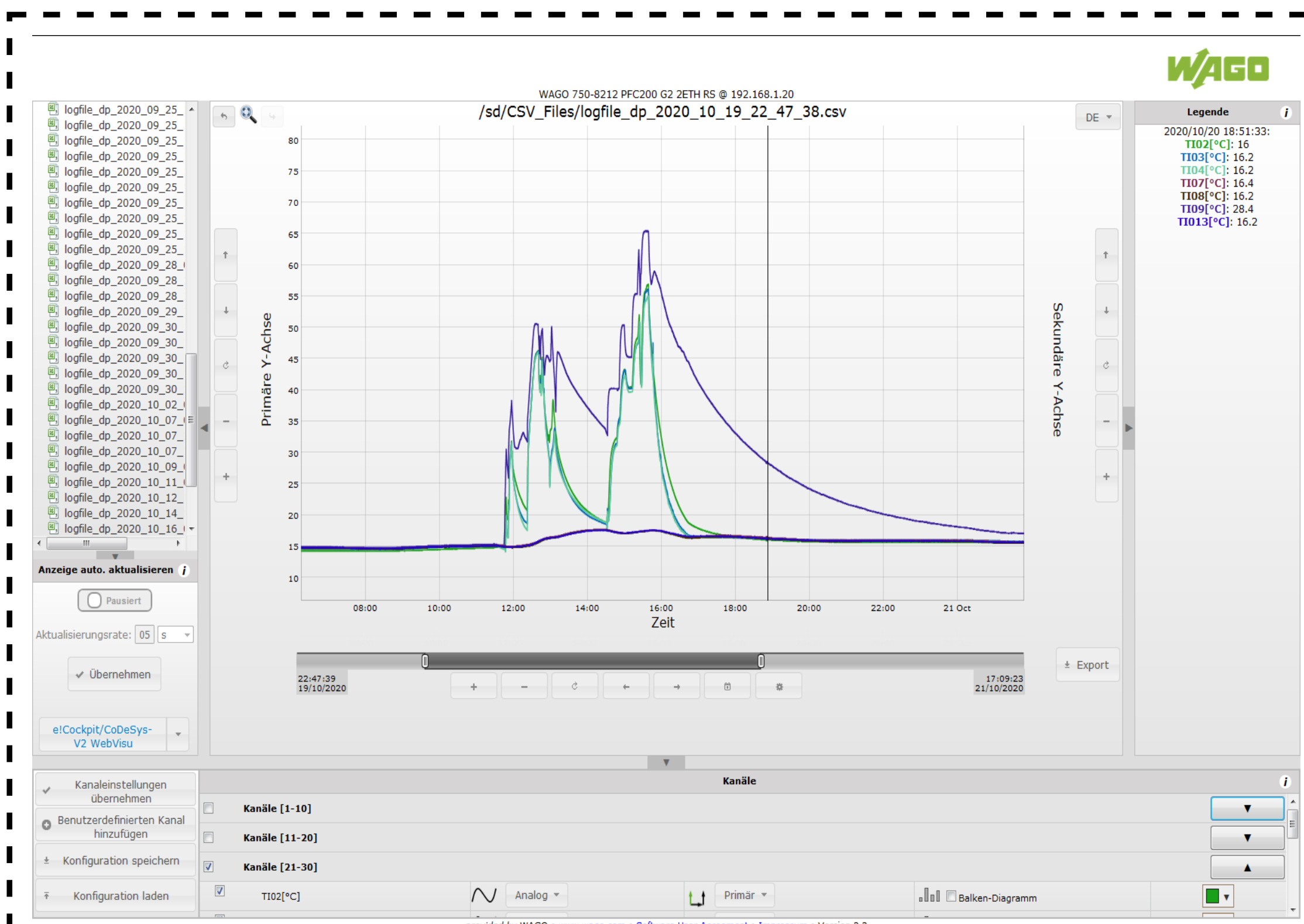


Digital Twin Facility

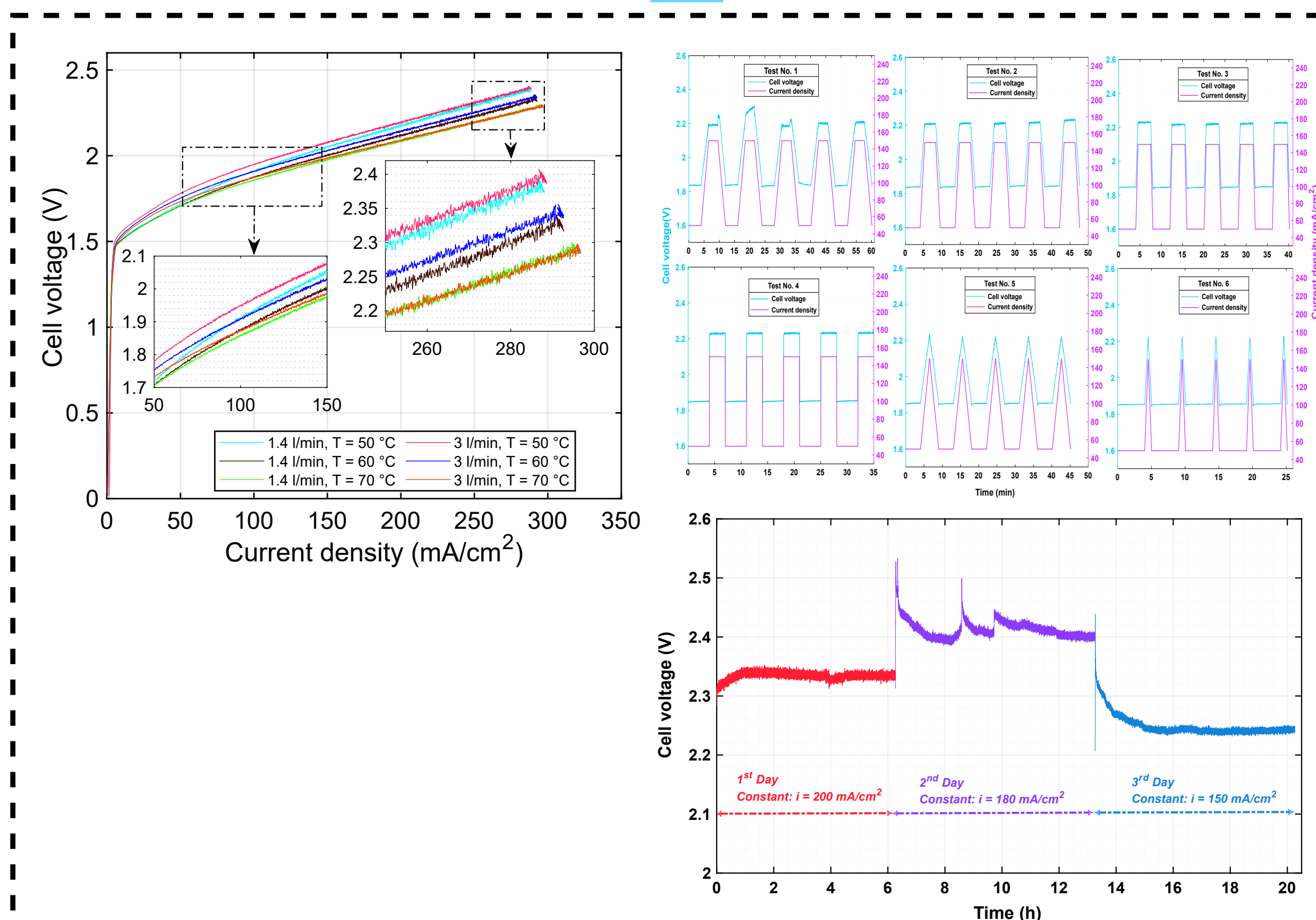
Hydrogen Production System



Real-Time Data Transfer System

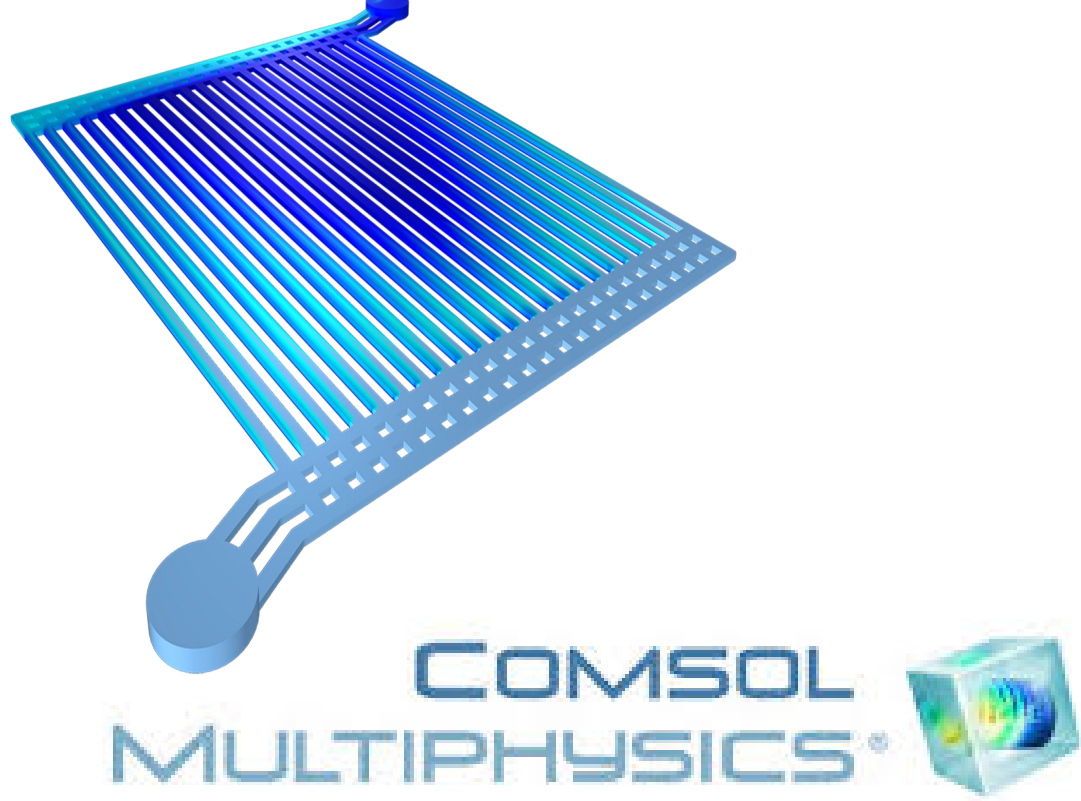
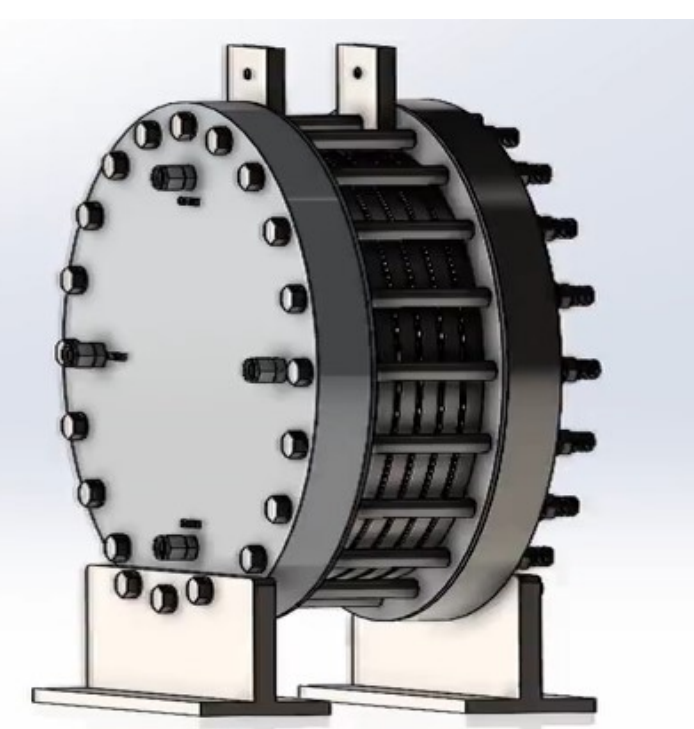


Data Storage (Process Parameter):
Temperature, Voltage, Current, Flow rate,
Pressure etc.

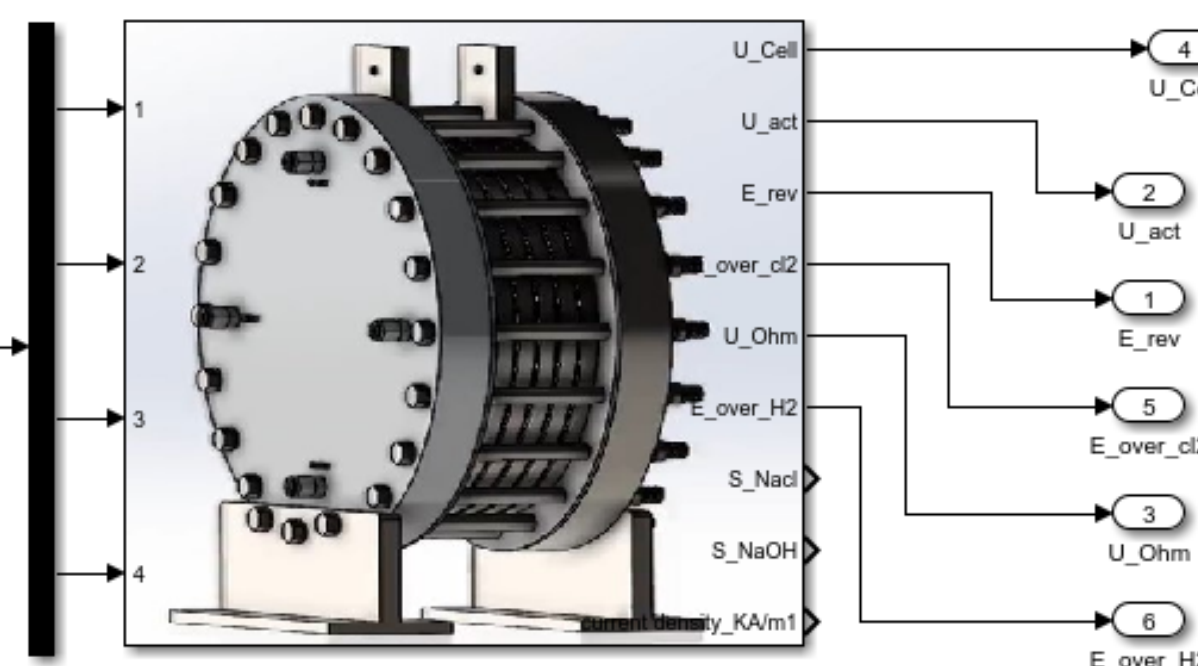


Energy-related Process
Optimization Suggestions

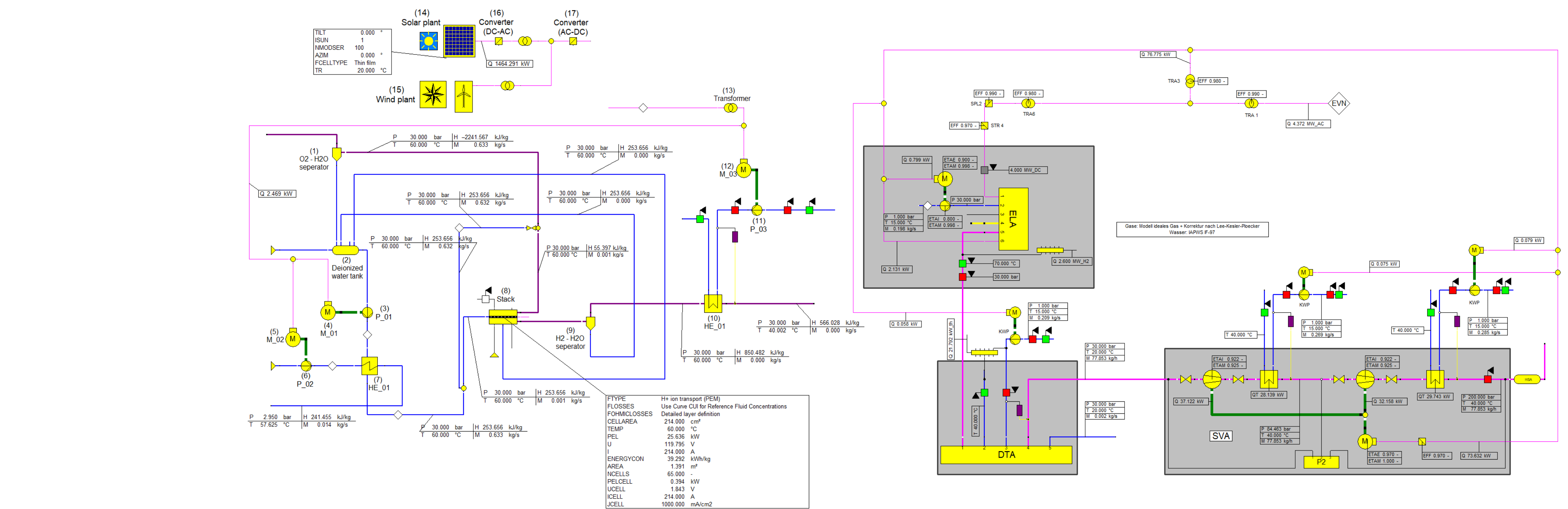
Modelling and Simulation



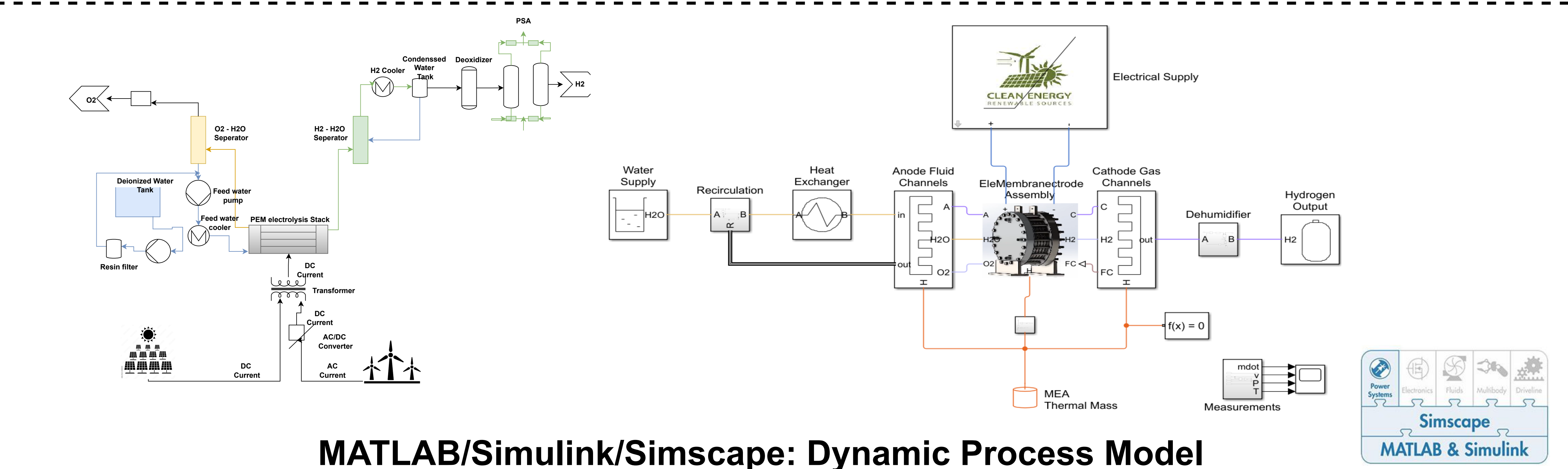
COMSOL: Stack Model (Numerical)



MATLAB/Simulink: Stack Model



Epsilon®Professional: Process Model (Steady-State)



MATLAB/Simulink/Simscape: Dynamic Process Model