

BioProGReSs

Projektkoordinator: Göteborg Energi

Cooperation with:

Chalmers Tekniska Högskola

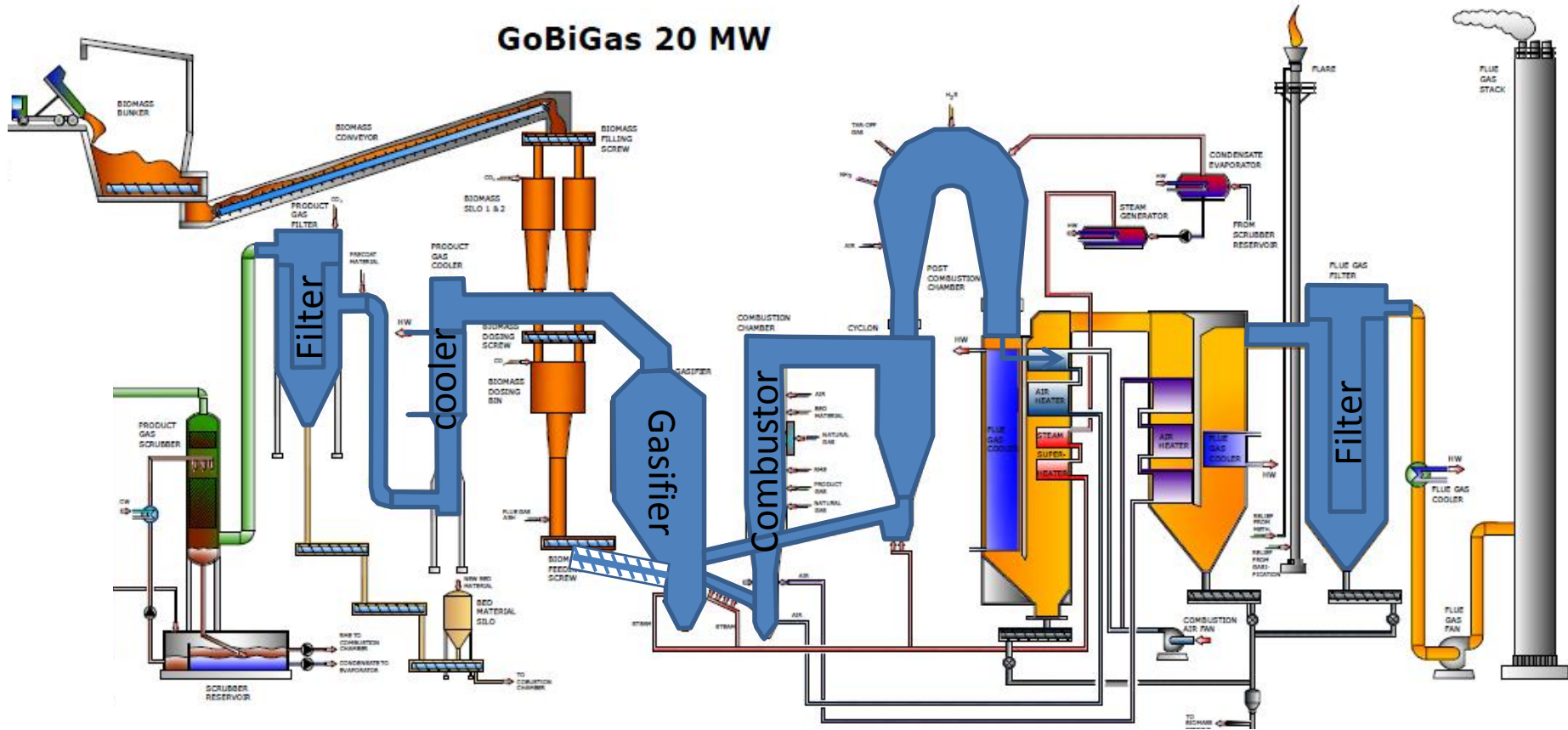
Tekniska Universitet Berlin (TUB).

Renewtec

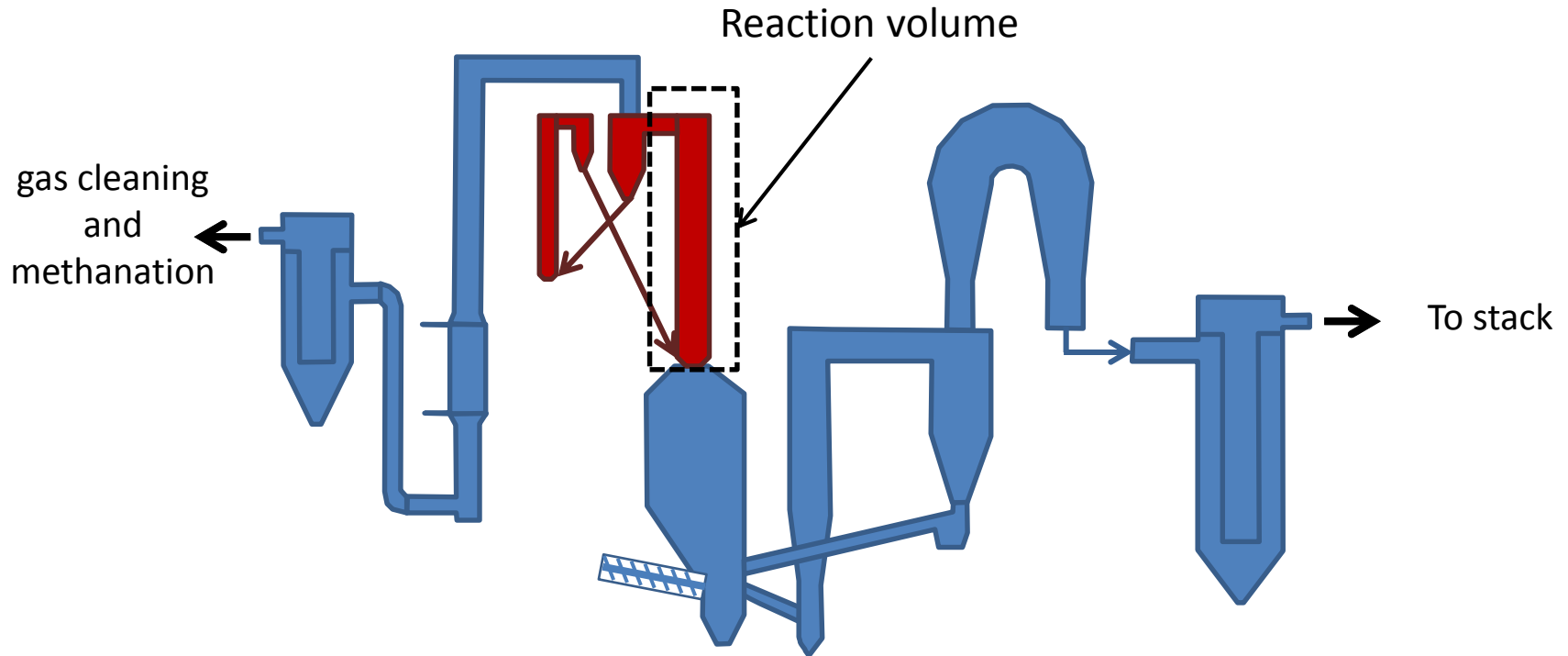
The Goal of BioProGress is to demonstrate chemical looping reforming technology in large scale in an industrial sized plant.

GoBiGas

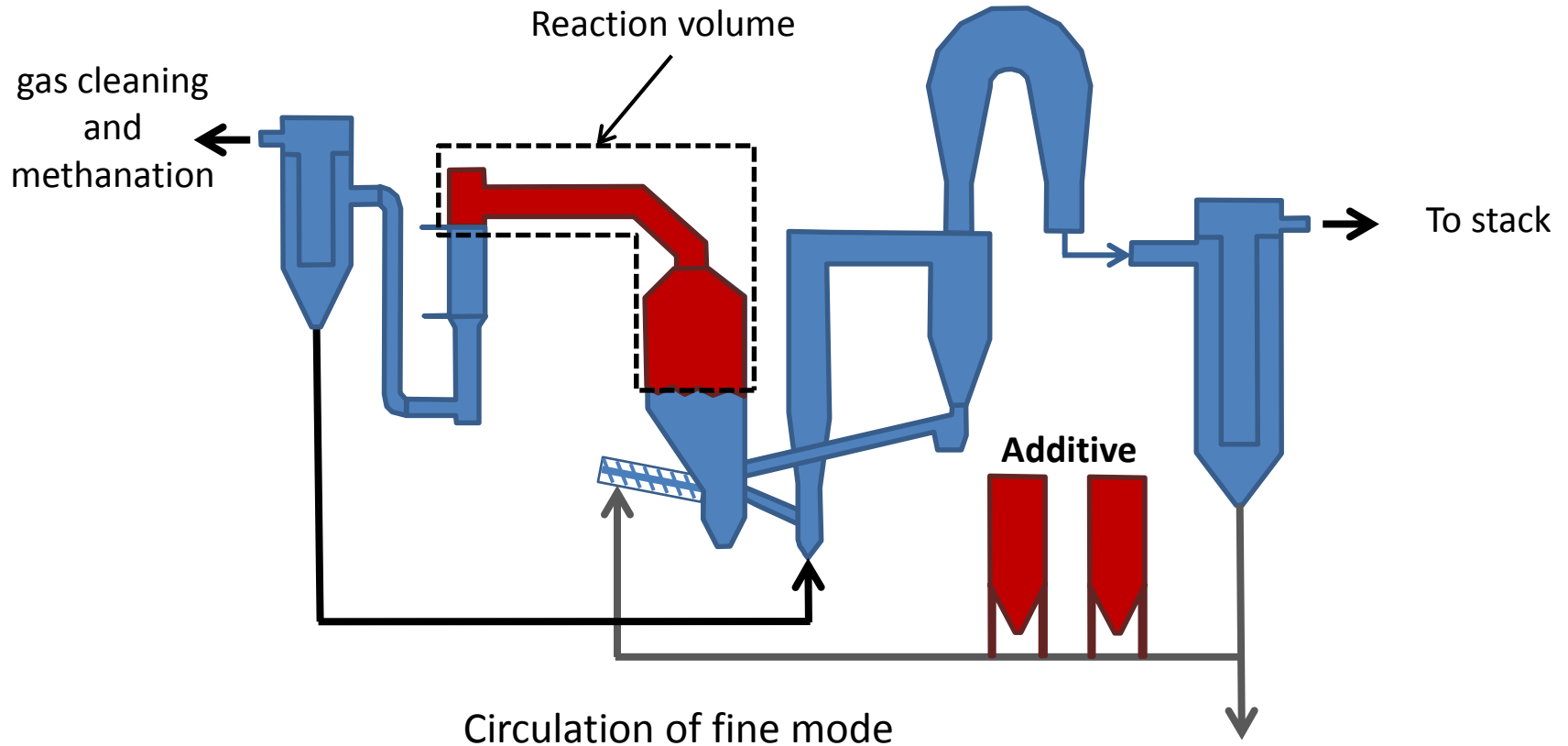
GoBiGas 20 MW



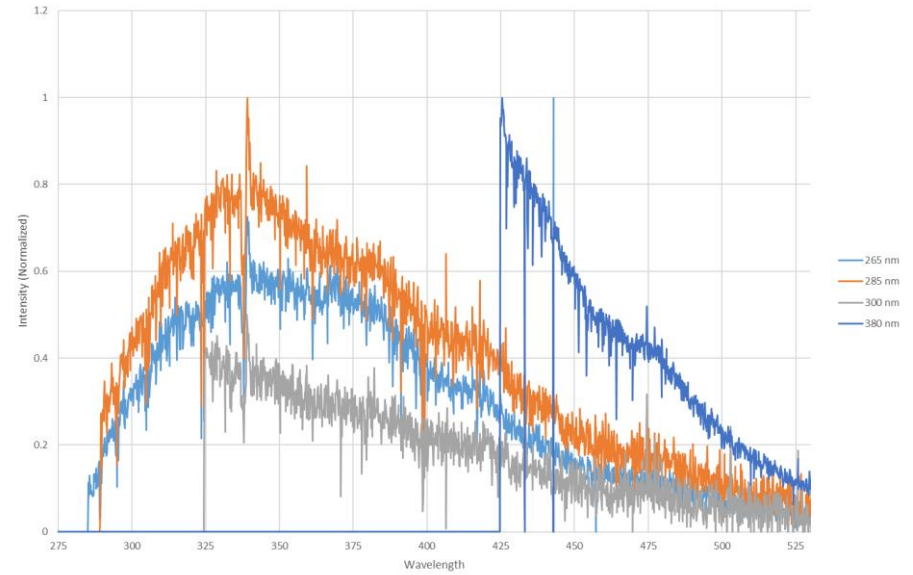
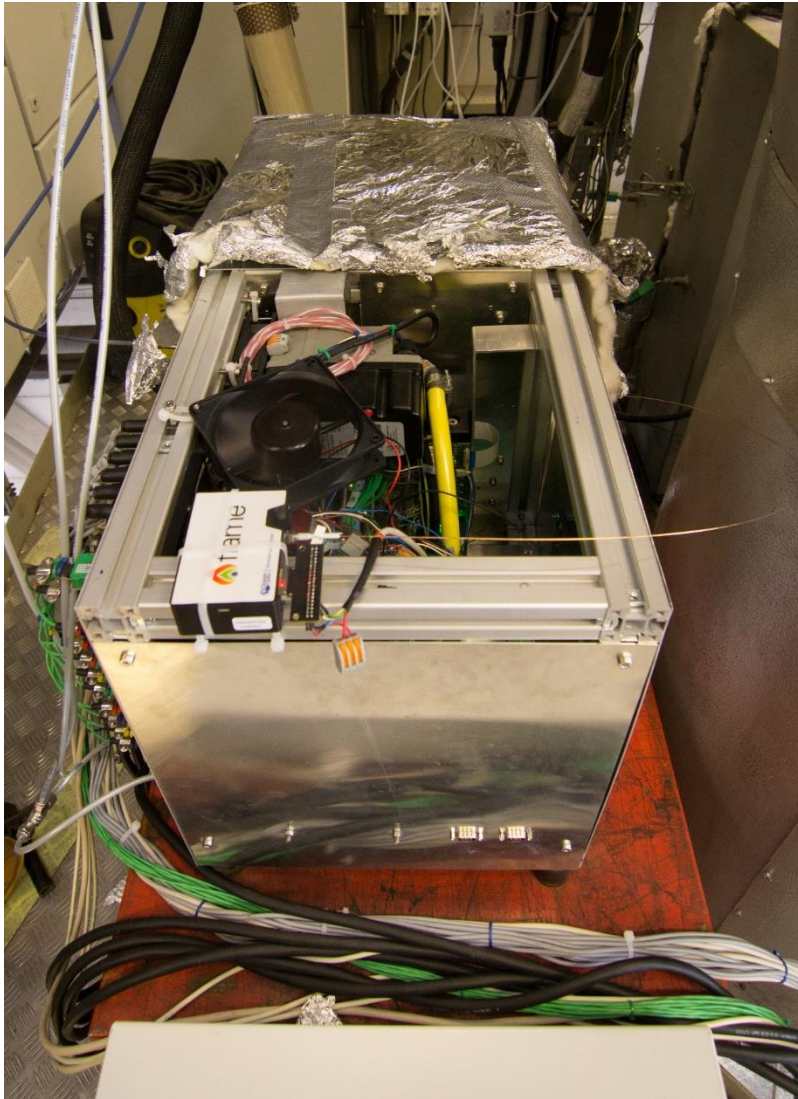
CLR-principle with GoBiGas



Demonstration of principle



Setup



Latest Learnings

Commonly the activity of bed material in gasification is attributed to species on the surface of the material. (heterogeneous catalysis)

From our observations, volatile potassium, introduced by the biomass ash and released from the bed material, appears to be the crucial active component (homogeneous reaction?) [Marinkovic J, et. al. Chemical Engineering Journal. 2015](#)

The Conclusions based on experiments at Chalmers were confirmed during the Start-up of the GoBiGas plant which succeeded much smoother due to the addition of potassium

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Biomass Product Gas Reforming Solutions

<http://bioprogress.se/project-partners/>



Tack

