



REVOGAS GmbH

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FICFB gasifier: CHP plant with 2 MW<sub>fuel</sub>

First commercial FICFB gasifier was for many years the installation in Güssing

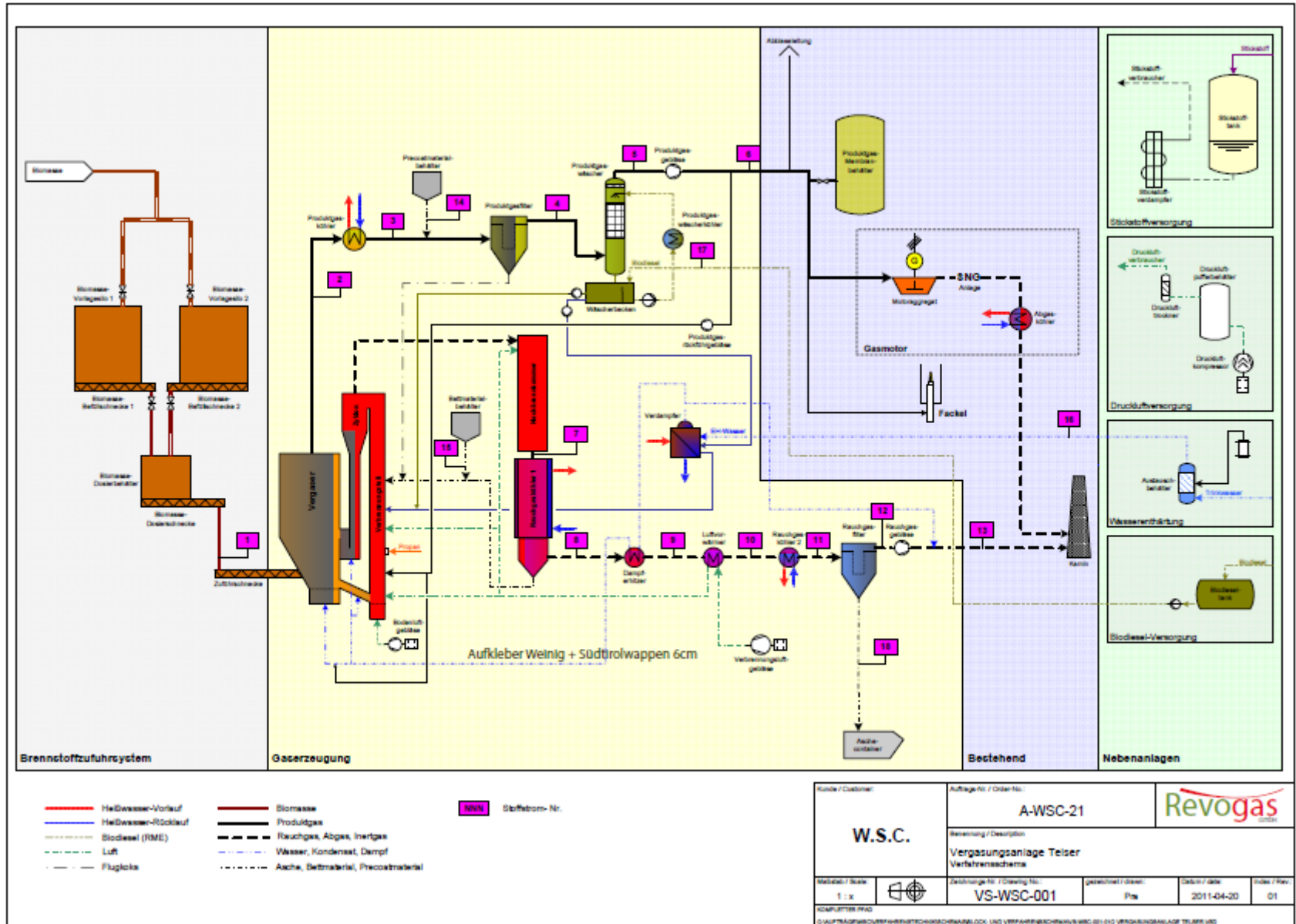
Location	Usage / Product	Fuel / Product MW, MW	Start up	Supplier	Status
Güssing, AT	Gas engine	8.0 <sub>fuel</sub> / 2.0 <sub>el</sub>	2002	AE&E, Repotec	Operational
Oberwart, AT	Gas engine / ORC	8.5 <sub>fuel</sub> / 2.8 <sub>el</sub>	2008	Ortner Anlagenbau	Operational
Villach, AT	Gas engine	15 <sub>fuel</sub> / 3.7 <sub>el</sub>	2010	Ortner Anlagenbau	On hold/ insolvent
Senden/Ulm DE	Gas engine / ORC	14 <sub>fuel</sub> / 5 <sub>el</sub>	2011	Repotec	Operational
Burgeis, IT	Gas engine	2 <sub>fuel</sub> / 0.5 <sub>el</sub>	2012	Repotec / Revogas	Operational
Göteborg, Sweden	BioSNG	32 <sub>fuel</sub> / 20 <sub>BioSNG</sub>	2013	Valmet / Repotec	Commissioning
California	R&D	1 MW <sub>fuel</sub>	2013	Greg	Commissioning

Source: Dr. R. Rauch, TU Vienna, November 2014 <http://www.ieatask33.org/app/webroot/files/file/2014/CR2/Austria.pdf>



FICFB gasifier in Burgeis, IT  
 $2 \text{ MW}_{\text{th}}$ ,  $0.5 \text{ MW}_{\text{el}}$ ,  $500 \text{ kg/h}$

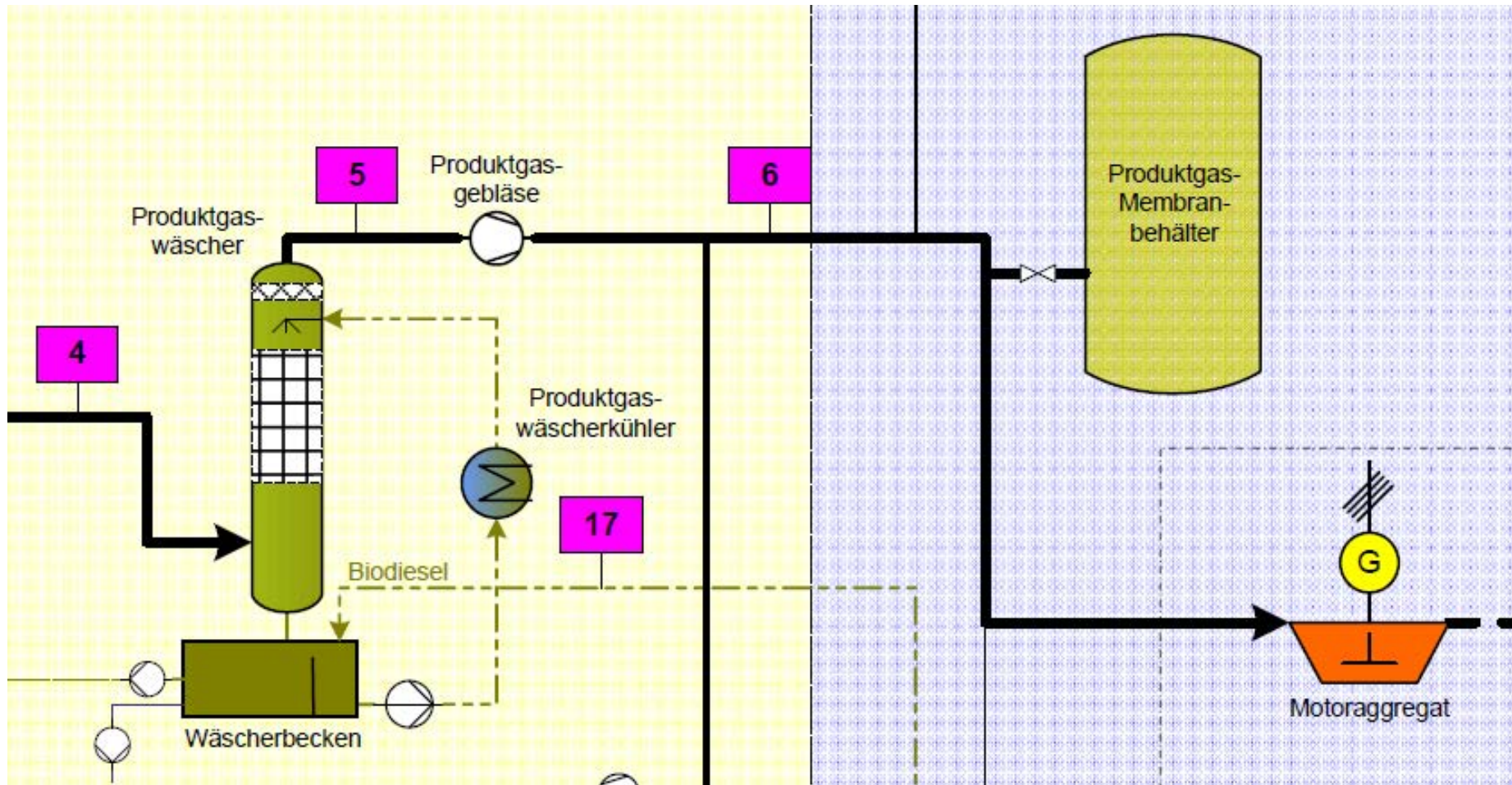






Questions of interest:

- What are the compounds which condense in the turbo charger of the gas engine ?
- How can operation conditions of the gas scrubber be improved?

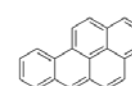
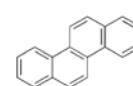


## Results of sublimation: Mass distribution

Probe	%	°C	Torr
A	25.5	125	338
B	39.9	125	18
C	14.4	125	18
D	11.1	225	1.4
E	0.4	265	1.4
F	3.5	-	-
Verlust	5.1		
	100.0		



## Tar compounds



Sample  
A  
B  
C  
D

