



PEMURES

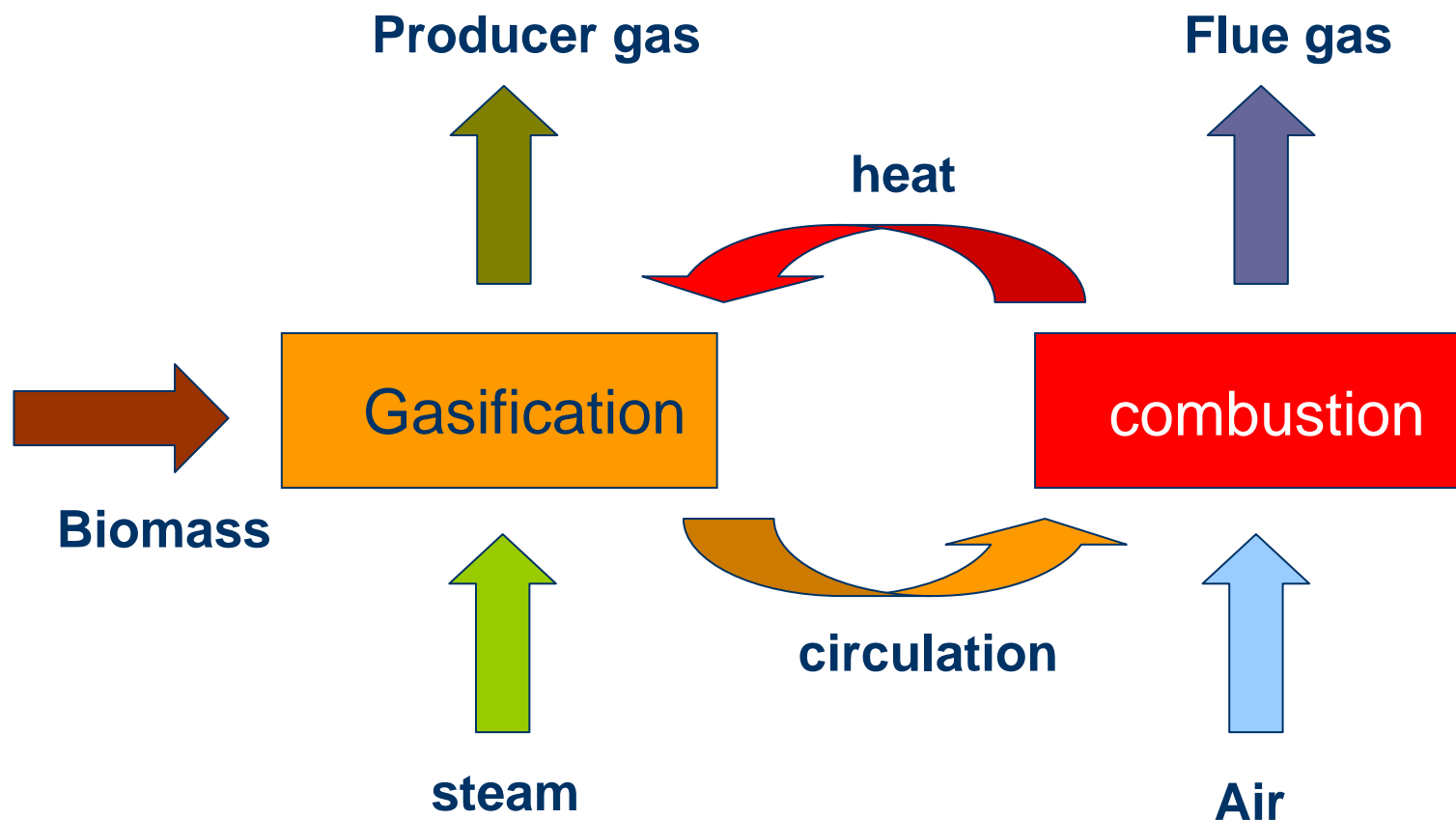
**Biomassekraftwerk Güssing & 2nd generation fuels
Projekt PEMURES, 08.05.2013 Güssing**

Dr. Richard Zweiler, GET GmbH

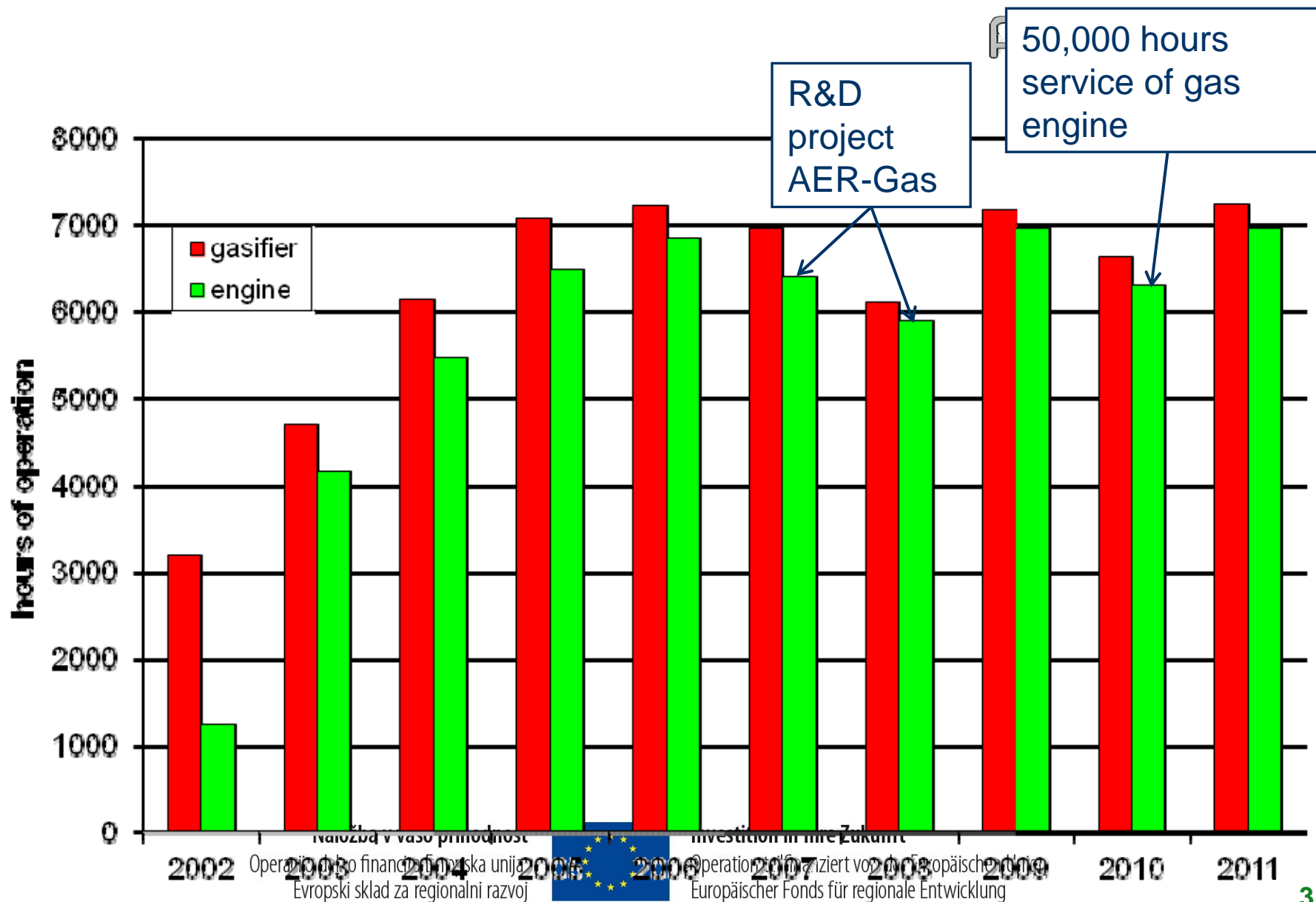
Naložba v vašo prihodnost
Operacijo delno financira Evropska unija
Evropski sklad za regionalni razvoj



Investition in Ihre Zukunft
Operation teilfinanziert von der Europäischen Union
Europäischer Fonds für regionale Entwicklung

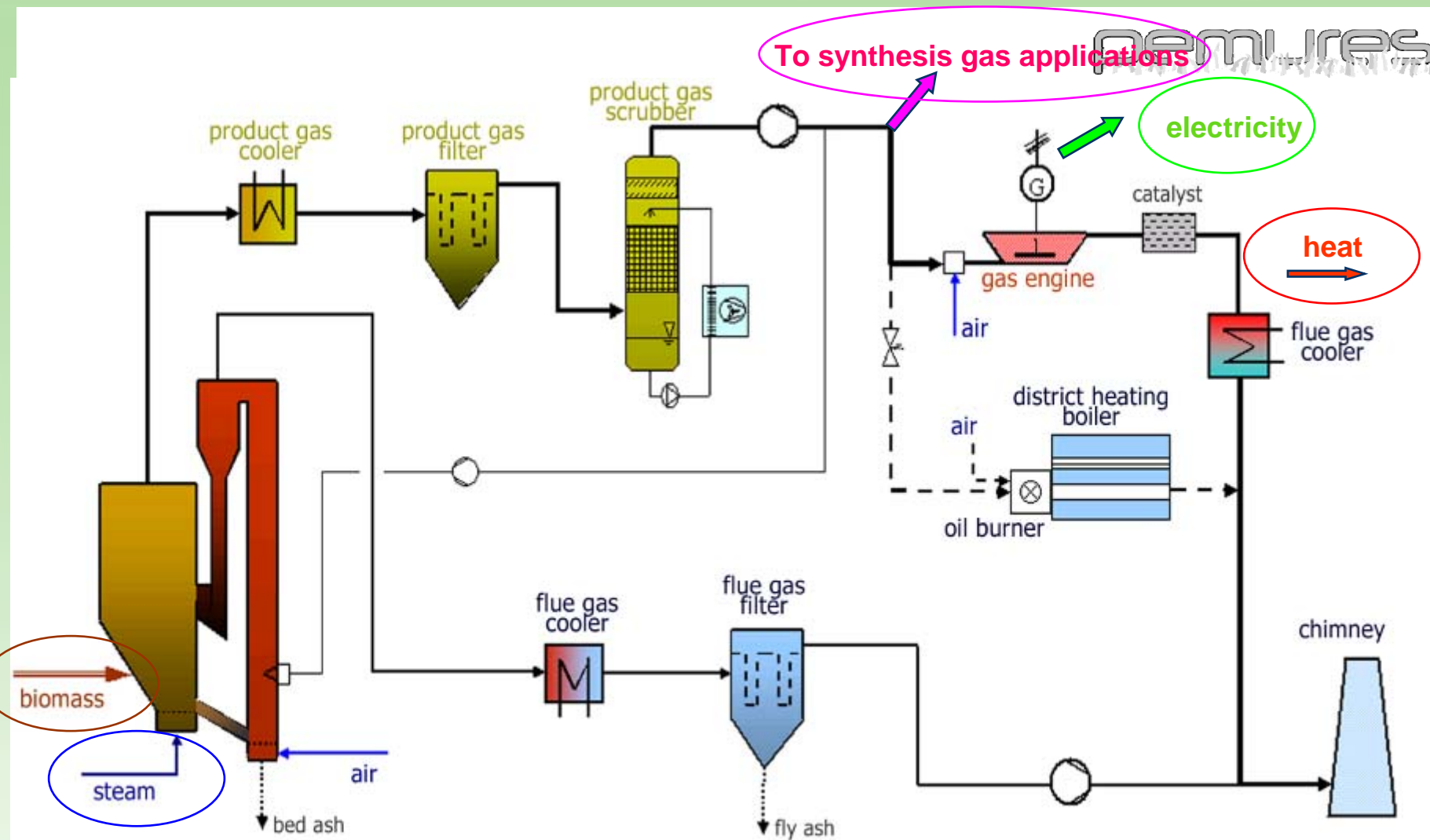


Güssing, 8.5.2013



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CHP-PLANT GÜSSING



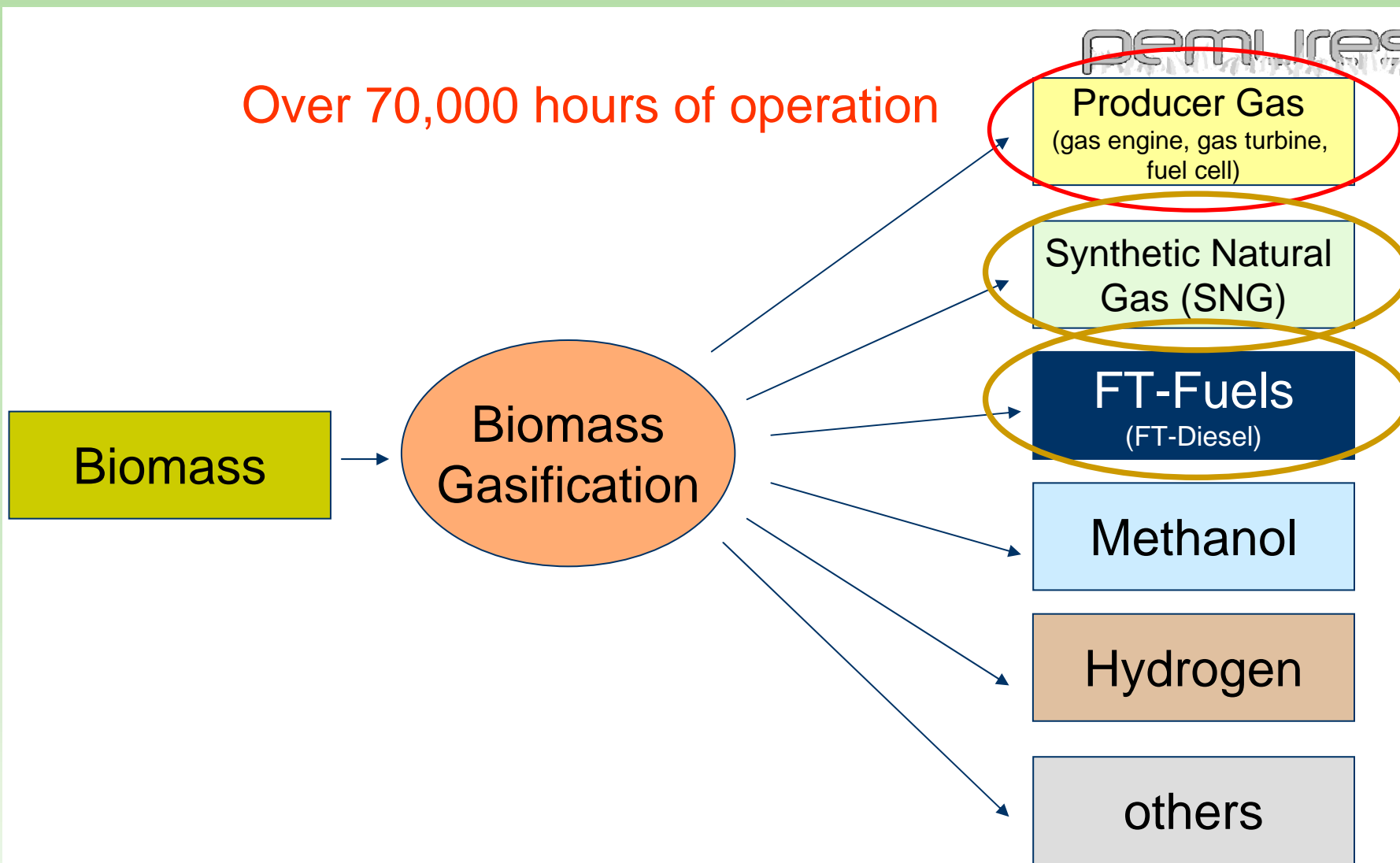
Güssing, 8.5.2013

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Over 70,000 hours of operation



permlires

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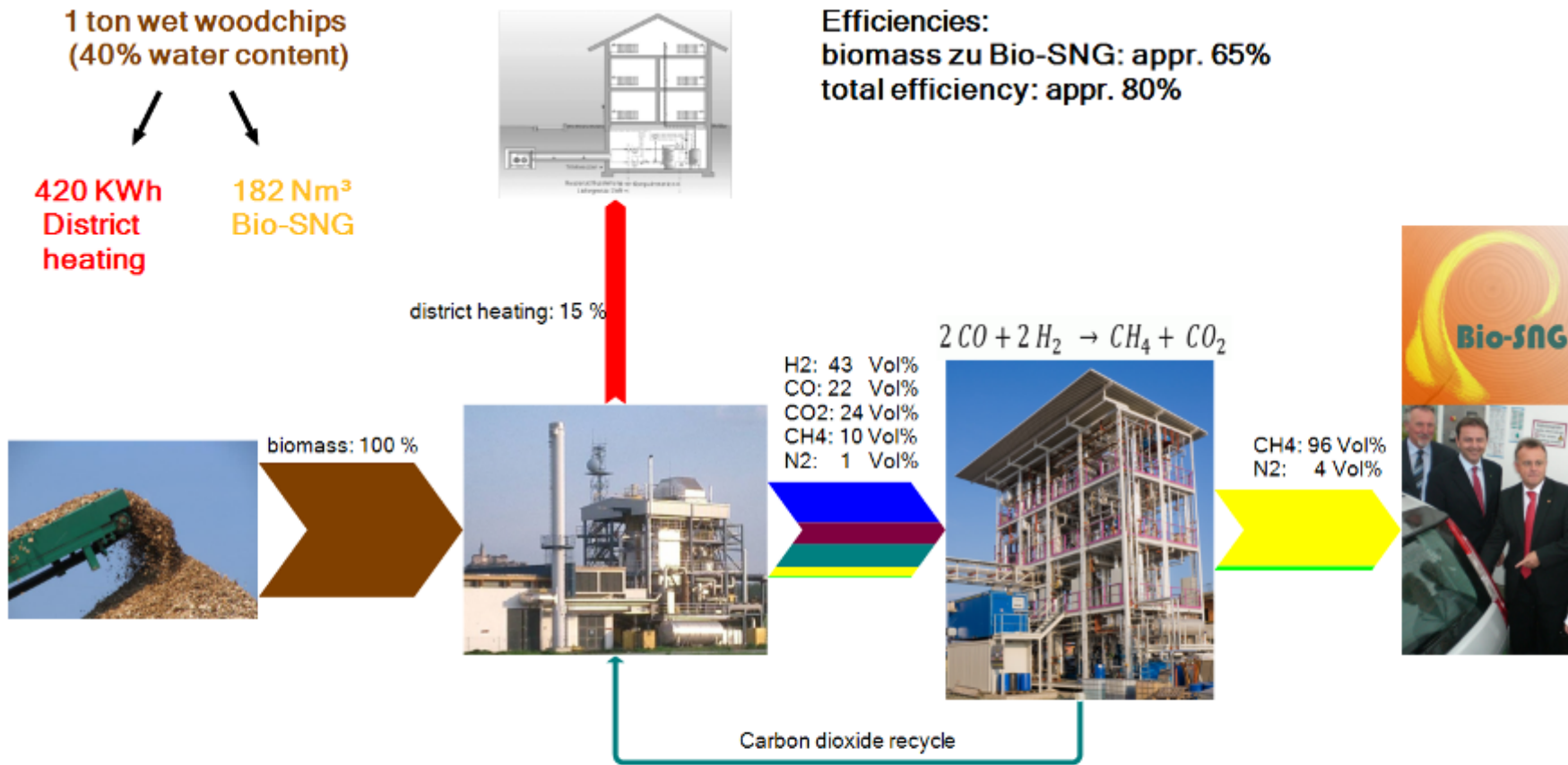
Biological Synthetic (Substitue) Natural Gas





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2008/08/26 17:48



- biomass
- district heating
- CH4 - Methane
- N2 - nitrogen
- H2 - hydrogen
- CO - carbon monoxide
- CO2 - carbon dioxide

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Renewable liquid fuels

Fischer-Tropsch Synthesis

BioFiT

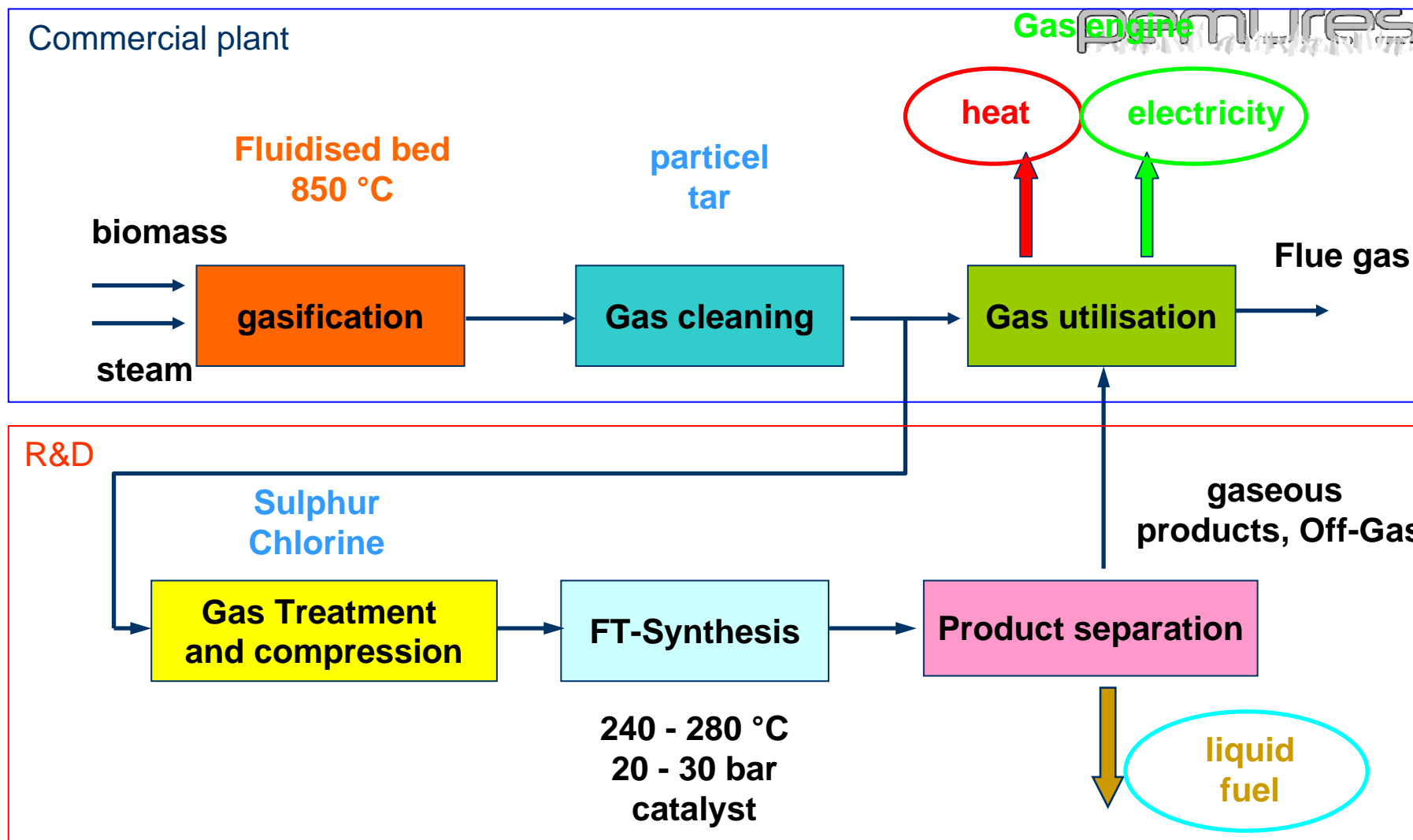
BIOMASS-TO-FISCHER-TROPSCH

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Properties of raw FT Diesel

Properties	Unit	EN 590:2004		Results of FT Diesel
		min	max	
Cetane number	-	51,0	-	75-85
Density at 15 o C	kg/m ³	820	845	770-790
Polycyclic aromatic hydrocarbons	%(m/m)	-	11	< 1
Total aromatics content	%(m/m)	-	-	< 1
Sulphur content	mg/kg	-	50	< 5
Flash point	°C	>55	-	87 to 91
Carbon residue	%(m/m)	-	0,30	< 0,03
Ash content	%(m/m)	-	0,01	< 0,0015
Water content	mg/kg	-	200	200 to 300
Total contamination	mg/kg	-	24	2 to 4
Copper strip corrosion (3h at 50 °C)	rating	class 1		class 1 a
Oxidation stability	g/m ³	-	25	< 5
Lubricity, corrected wear scar diameter	m m	-	460	340 to 360
Viscosity at 40oC	mm ² /s	2,00	4,50	2.3 to 2.5
Oxidation stability	g/m ³	-	25	< 12
Cold Filter Plugging Point, (CFPP)	°C	-	-20	-5 to 0

Comparison FT diesel – fossil diesel

FT diesel

Produced
from wood



fossil diesel

Produced
from
crude oil

Danke!

Hvala !

pemures

Soustvarjamo prihodnost | Zusammenarbeit für die Zukunft

Weitere Informationen / Dodatne informacije:

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