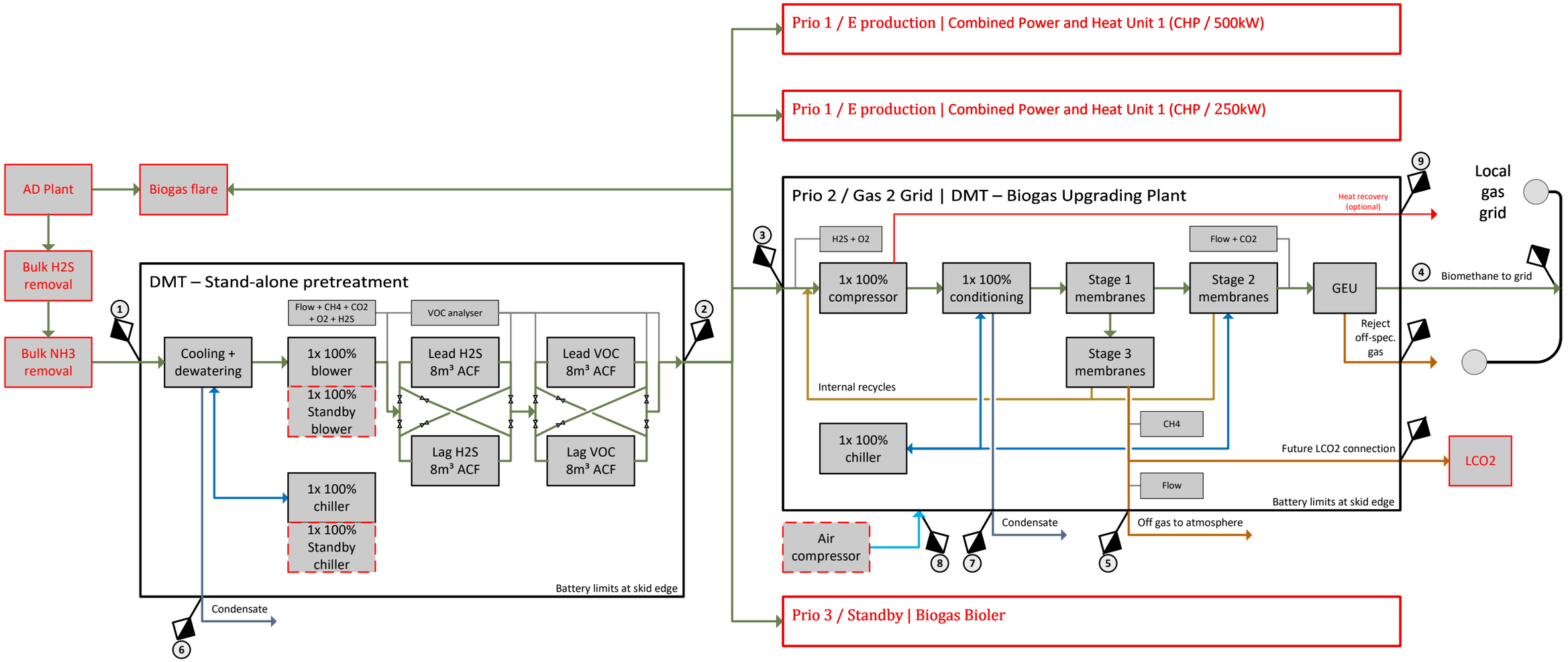


1 – Inlet raw biogas	
Medium:	BIOGAS+H2S
Capacity:	1900 Nm³/h
	2004 Sm³/h
Temp.:	45°C
Dewpoint:	45°C
Pressure:	0 mbarg
CH4:	55,0 vol%
CO2:	44,5 vol%
N2:	0,4 vol%
O2:	0,1 vol%
H2S:	150 ppmv
NH3:	50 ppmv
VOCs:	60 mg/Nm³
Siloxanes:	≤ 1 mg/Nm³

2 – Pretreated biogas	
Medium:	BIOGAS+H2S
Capacity:	1900 Nm³/h
	2004 Sm³/h
Temp.:	35°C
Dewpoint:	7°C
Pressure:	100 mbarg
CH4:	55,0 vol%
CO2:	44,5 vol%
N2:	0,4 vol%
O2:	0,1 vol%
H2S:	≤ 1 ppmv
NH3:	≤ 1 ppmv
VOCs:	≤ 1 mg/Nm³
Siloxanes:	≤ 1 mg/Nm³

3 – Inlet biogas	
Medium:	BIOGAS+H2S
Capacity:	1490 Nm³/h
	1572 Sm³/h
Temp.:	34°C
Dewpoint:	7°C
Pressure:	100 mbarg
CH4:	55,0 vol%
CO2:	44,5 vol%
N2:	0,4 vol%
O2:	0,1 vol%
H2S:	≤ 1 ppmv
NH3:	≤ 1 ppmv
VOCs:	≤ 1mg/Nm³
Siloxanes:	≤ 1 mg/Nm³

4 – Outlet biomethane	
Medium:	CH4
Capacity:	843 Nm³/h
	889 Sm³/h
Temp.:	5 – 20°C
Dewpoint:	≤ -70°C
Pressure:	8,5 – 12,5 barg
CH4:	≥ 96,6 vol%
CO2:	≤ 2,5 vol%
N2:	≤ 0,7 vol%
O2:	≤ 0,2 vol%
H2S:	≤ 3 ppmv
NH3:	≤ 1 ppmv
VOCs:	≤ 1 mg/Nm³
Siloxanes:	≤ 1 mg/Nm³

5 – Outlet off-gas	
Medium:	CO2 + GAS
Capacity:	647 Nm³/h
	683 Sm³/h
Temp.:	15 – 30°C
Dewpoint:	≤ -15°C
Pressure:	Atmospheric
CH4:	≤ 0,7 vol%
CO2:	≥ 99,1 vol%
N2:	≤ 0,1 vol%
O2:	≤ 0,1 vol%
H2S:	≤ 3 ppmv
NH3:	≤ 1 ppmv
VOCs:	≤ 1 mg/Nm³
Siloxanes:	≤ 1 mg/Nm³

6 – Outlet condensate	
Medium:	WATER
Capacity:	147,0 L/h
Temp.:	0 – 10°C
Pressure:	Atmospheric

7 – Outlet condensate	
Medium:	WATER
Capacity:	12,0 L/h
Temp.:	0 – 10°C
Pressure:	Atmospheric

8 – Compressed air	
Medium:	AIR
Capacity:	10 Nm³/h
Pressure:	≥ 6 barg
Class:	ISO 8573-1 class
3.3.3 or	higher

9 – Heat recovery	
Medium:	GLYCOL
Capacity:	0,140 kWt/Nm³
Supply:	65°C
Return:	45°C

General	
Site elevation:	100m A.S.L.
Ambient T:	-18°C / +35°C
Area classification:	Non-ATEX
Seismic zone:	N/A
Wind load:	≤ 9 Bft.; 35 m/s
Snow load:	≤ 2,4 kN/m²

Included scope | Optional scope | Excluded scope | Client | DMT

DOCUMENT INDICATIVE ONLY AND SUBJECT TO DETAILED ENGINEERING

TITLE:	Block Diagram	PROJECT NO:	250090 v1
CLIENT:	ENGIE	STATUS:	FOR INFORMATION ONLY
PROJECT:	Home Farm Biogas upgrading project	DATE:	28/05/2025

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