

SYSADVANCE

SHAPING THE FUTURE OF TECHNOLOGY



TECHNOLOGY PORTFOLIO



METHAGEN^{AD}

BIOGAS UPGRADING FROM ANAEROBIC DIGESTION



since 2016



METHAGEN^{AD}

2S POLISHING



since 2017



patent pending

METHAGEN^{LF}

LANDFILL GAS UPGRADING WITH HIGHEST N₂/O₂ REMOVAL



since 2018



METHABOOST/CARBOGEN

CO₂ CAPTURE FOR VALORIZATION



since 2019



HYDROGEN^{PURE}

H₂ PURIFICATION FOR ELECTROLYZERS/ PHOTOELECTROLYZERS



since 2021



NEW

eMETHAGEN

e-GAS FROM BIO CO₂ + GREEN H₂



since 2022

METHAGEN^{AD}

**BIOGAS UPGRADING
FROM ANAEROBIC DIGESTION**

AGRICULTURE / ORGANIC WASTE / WASTE WATER TREATMENT

METHABOOST CARBOGEN

**CO₂ CAPTURE
FOR VALORIZATION**

METHAGEN^{LF}

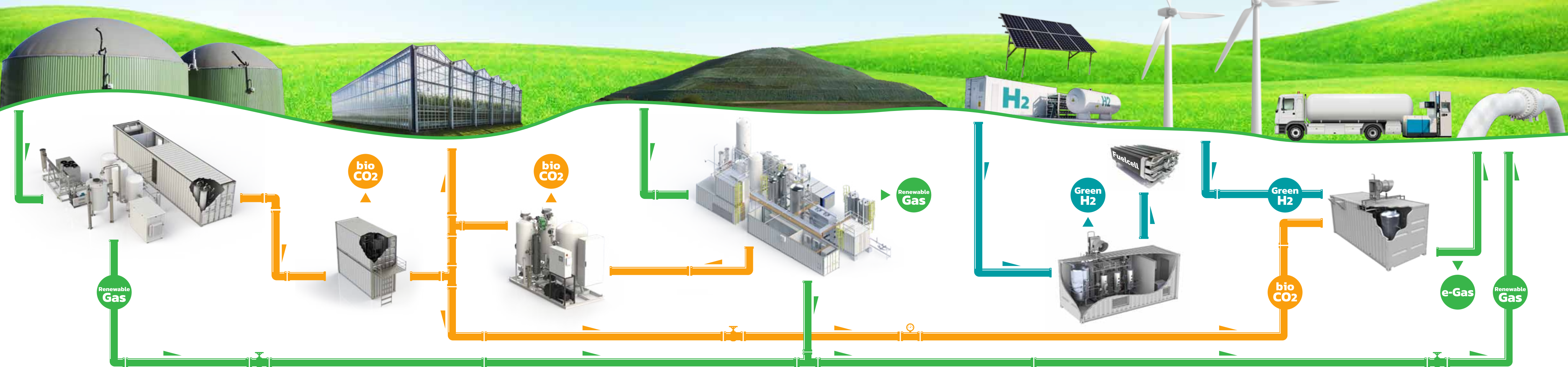
**LANDFILL GAS UPGRADING
WITH HIGHEST N₂/O₂ REMOVAL**

HYDROGEN^{PURE}_G

**H₂ PURIFICATION
FOR ELECTROLIZERS/
PHOTOELECTROLIZERS**

eMETHAGEN

**e-GAS
FROM BIO CO₂ + GREEN H₂**



VPSA

Capacity	50 ~ 6000 Nm ³ /h
Purity	up to 99% CH ₄
Recovery	≥ 99.5% CH ₄
Consumption	0.23 kWh/Nm ³
Contaminants Removed	CO ₂ , H ₂ O, H ₂ S, N ₂ , O ₂ , Silox

VSA

Capacity	100 ~ 3000 Nm ³ /h
Purity	up to 99% CO ₂
Recovery	≥ 90% CO ₂
Consumption	51 kWh/ton CO ₂
Contaminants Removed	CH ₄ , O ₂ , N ₂ , CO

VSA+VPSA

Capacity	500 ~ 6000 Nm ³ /h
Purity	up to 98% CH ₄
Recovery	≥ 85% CH ₄
Consumption	0.35 kWh/Nm ³
Contaminants Removed	CO ₂ , N ₂ , O ₂ , H ₂ O, H ₂ S, Silox

CATALYTIC+TSA

Capacity	80 ~ 600 Nm ³ /h
Purity	up to 99.999% H ₂
Recovery	100% (ZERO loss)
Consumption	0.05 kWh/Nm ³
Contaminants Removed	O ₂ , H ₂ O

CATALYTIC+TSA

Capacity	12 ~ 120 Nm ³ /h
Purity	up to 99% CH ₄
Recovery	100% (ZERO loss)
Consumption	-
Contaminants Removed	CO ₂ , O ₂ , H ₂ O



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