



EUROPEAN BIOMETHANE MAP

INFRASTRUCTURE FOR BIOMETHANE PRODUCTION

2018

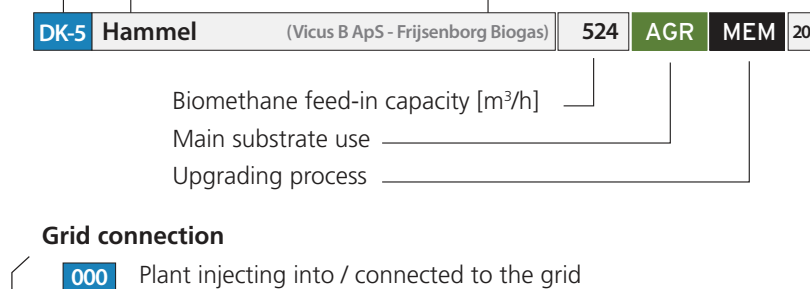
Gas Infrastructure Europe (GIE)
Rue de Cornberg 100
1000 Brussels - BELGIUM
info@european-biogas.eu
www.gie.eu

Gas Infrastructure Europe (GIE)
Rue de Cornberg 100
1000 Brussels - BELGIUM
info@european-biogas.eu
www.gie.eu

European Biogas Association (EBA)
Rue de Cornberg 100
1000 Brussels - BELGIUM
info@european-biogas.eu
www.european-biogas.eu

European Biogas Association (EBA)
Rue de Cornberg 100
1000 Brussels - BELGIUM
info@european-biogas.eu
www.european-biogas.eu

BIOMETHANE DATA LEGEND



Grid connection
Plant injecting into / connected to the grid
Plant not injecting into / connected to the grid

Main substrate use
AGRI: Agricultural Residues, Manure, Plant Residues
MUN: Bio- and Municipal Waste
ENR: Energy Crops
FAB: Industrial Organic Waste from Food and Beverage Industries
LAN: Landfill Wastes
SLW: Sewage Sludge, Gas and Waste
No information

Upgrading process (multiple methods can be used or combined)
CHS: Chemical Scrubbing
CYG: Cryogenic Separation
MTR: Membrane Separation
PHS: Physical Scrubbing
PSA: Pressure Swing Adsorption
WAS: Water Scrubbing
No information

MAP LEGEND

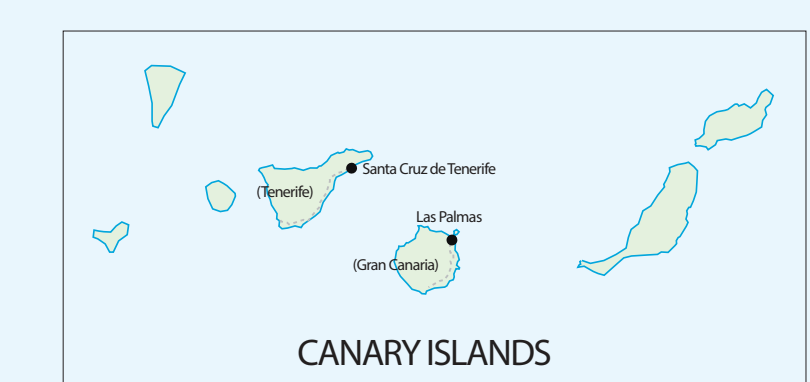
European country producing biomethane
Not producing biomethane / no data available

Cross-border interconnection point
Under construction or Planned
Cross-border interconnection point / Non-EU third country - project
Non-EU Cross-border interconnection point / Import

Transport by pipeline
under 24"
24" to 36"
36" and over
project

DATA SOURCES
All data provided on this map is for information purposes and shall be treated as indicative only. Under no circumstances shall be regarded as data intended for commercial use. We appreciate the support of our members and colleagues who have kindly provided the necessary data. Sources for each country are listed below.

- AUSTRIA: dena, ENERGINET, BIOGASBRANCHEN, HMM, NATURGAS US
- DENMARK: BIOGASBRANCHEN, HMM, NATURGAS US
- FINLAND: atee, club, ENGEN, GDF, dena
- FRANCE: atee, club, ENGEN, GDF, dena
- GERMANY: atee, club, ENGEN, GDF, dena
- HUNGARY: atee, club, ENGEN, GDF, dena
- ICELAND: NORÞURÞR
- ITALY: atee, club, ENGEN, GDF, dena
- LUXEMBOURG: atee, club, ENGEN, GDF, dena
- NETHERLANDS: atee, club, ENGEN, GDF, dena
- NORWAY: AEBIG, HANDEL
- SPAIN: AEBIG, HANDEL
- SWEDEN: atee, club, ENGEN, GDF, dena
- SWITZERLAND: atee, club, ENGEN, GDF, dena
- UNITED KINGDOM: ADABIA



scale 1:8.000.000
Version: January 2018



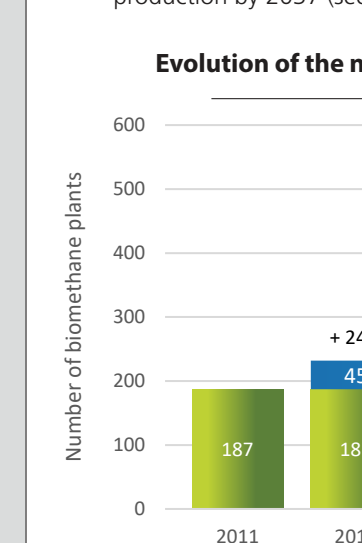
Country	Facility Name	Capacity (t/d)	Start of operation	Main substrate	Upgrading process	Grid connection	Transport by pipeline
Austria	1.1 Aners / Lutz	300	2015	AGRI	PHS	0000	
	1.2 Bruck an der Leitha	400	2015	AGRI	PHS	0000	
	1.3 Engerndorf	125	2015	AGRI	PHS	0000	
	1.4 Engersdorf	125	2015	AGRI	PHS	0000	
	1.5 Leoben	125	2015	AGRI	PHS	0000	
	1.6 Lustenau	100	2015	AGRI	PHS	0000	
	1.7 Mergentzen am Moos	400	2015	AGRI	PHS	0000	
	1.8 Rechnitz	400	2015	AGRI	PHS	0000	
	1.9 Schilben	150	2015	AGRI	PHS	0000	
	1.10 St. Leonhard	150	2015	AGRI	PHS	0000	
Denmark	1.11 Strand / Lønbjergvej	300	2015	AGRI	PHS	0000	
	1.12 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.13 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.14 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.15 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.16 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.17 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.18 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.19 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.20 Vestsjælland	130	2015	AGRI	PHS	0000	
France	1.21 Epole	400	2015	AGRI	PHS	0000	
	1.22 Houvroult	300	2015	AGRI	PHS	0000	
	1.23 Joubert	300	2015	AGRI	PHS	0000	
	1.24 Lohas	300	2015	AGRI	PHS	0000	
	1.25 Lohas	300	2015	AGRI	PHS	0000	
	1.26 Lohas	300	2015	AGRI	PHS	0000	
	1.27 Lohas	300	2015	AGRI	PHS	0000	
	1.28 Lohas	300	2015	AGRI	PHS	0000	
	1.29 Lohas	300	2015	AGRI	PHS	0000	
	1.30 Lohas	300	2015	AGRI	PHS	0000	

KEY DATA

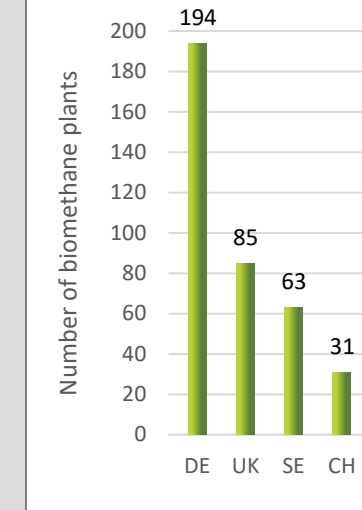
The European biomethane market

Europe comprised 17,662 biogas plants in end 2016, with all EU28 countries active in the field, along with Iceland, Norway, Serbia and Switzerland. Compared to the biogas sector, biomethane is still in its infancy. Biomethane plants upgrade the raw biogas production to a virtually pure stream of methane, which can then be injected into the local gas grid, or used locally for heating or fueling purposes. In 2011 (earliest EBA data), there were 187 biogas plants in Europe upgrading their production to biomethane. The total number of biomethane plants grew quickly in subsequent years, reaching 497 installations in the first quarter of 2017. In 2016 alone, 41 additional biomethane plants were registered (49% increase). The countries which saw the most biomethane plant construction in 2016 were Germany (+11 units), Sweden (+10 units) and France (+9 units). The geographical distribution of biomethane plants in Europe in the first quarter of 2017 is illustrated in figure below.

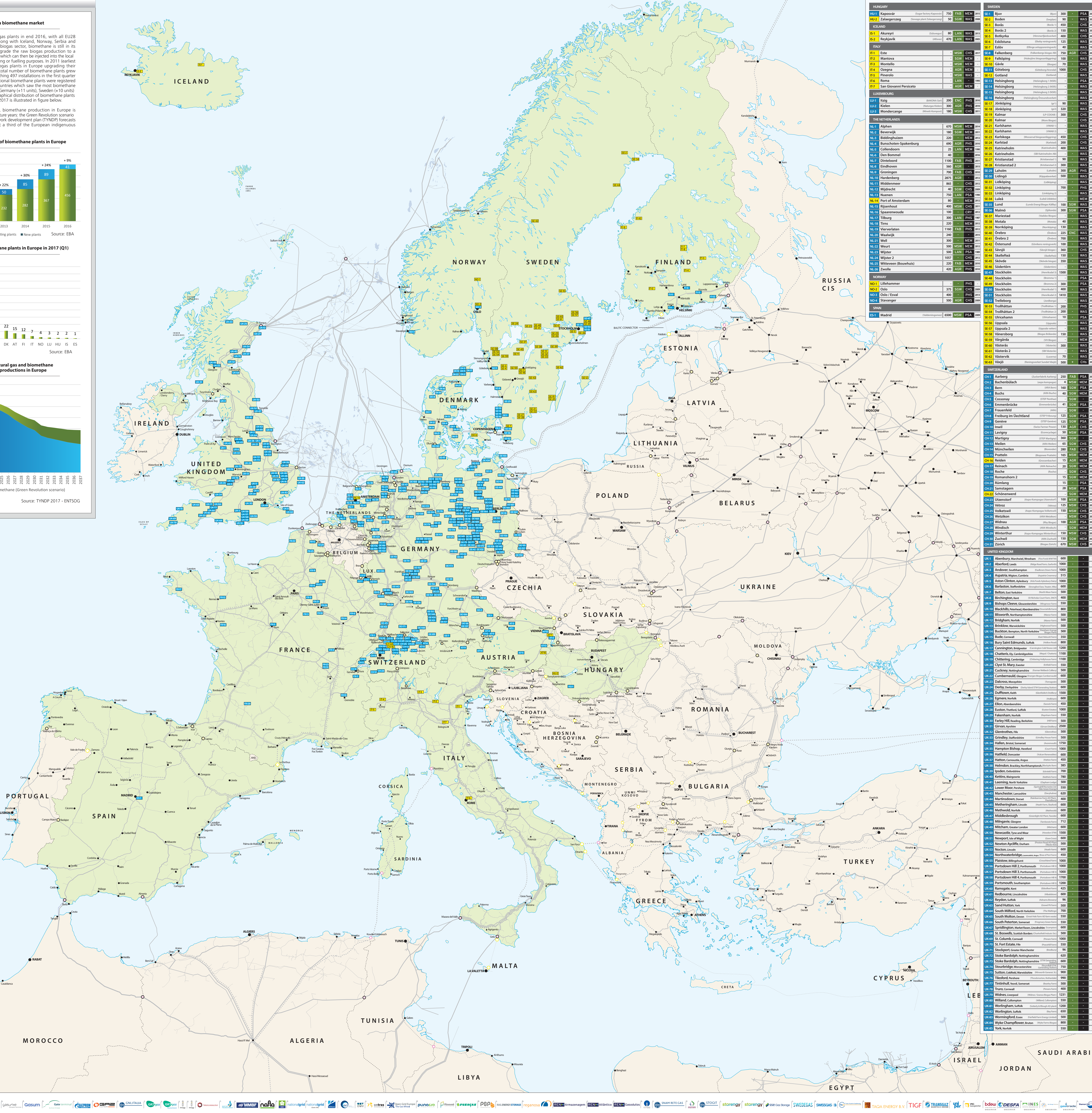
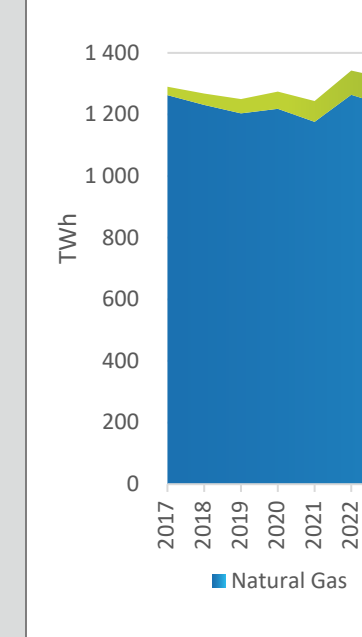
Evolution of the number of biomethane plants in Europe



Distribution of biomethane plants in Europe in 2017 (Q1)



Forecasts of natural gas and biomethane indigenous productions in Europe



Country	Facility Name	Capacity (t/d)	Start of operation	Main substrate	Upgrading process	Grid connection	Transport by pipeline
Austria	1.1 Aners / Lutz	300	2015	AGRI	PHS	0000	
	1.2 Bruck an der Leitha	400	2015	AGRI	PHS	0000	
	1.3 Engerndorf	125	2015	AGRI	PHS	0000	
	1.4 Engersdorf	125	2015	AGRI	PHS	0000	
	1.5 Leoben	125	2015	AGRI	PHS	0000	
	1.6 Lustenau	100	2015	AGRI	PHS	0000	
	1.7 Mergentzen am Moos	400	2015	AGRI	PHS	0000	
	1.8 Rechnitz	400	2015	AGRI	PHS	0000	
	1.9 Schilben	150	2015	AGRI	PHS	0000	
	1.10 St. Leonhard	150	2015	AGRI	PHS	0000	
Denmark	1.11 Strand / Lønbjergvej	300	2015	AGRI	PHS	0000	
	1.12 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.13 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.14 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.15 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.16 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.17 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.18 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.19 Vestsjælland	130	2015	AGRI	PHS	0000	
	1.20 Vestsjælland	130	2015	AGRI	PHS	0000	
France	1.21 Epole	400	2015	AGRI	PHS	0000	
	1.22 Houvroult	300	2015	AGRI	PHS	0000	
	1.23 Joubert	300	2015	AGRI	PHS	0000	
	1.24 Lohas	300	2015	AGRI	PHS	0000	
	1.25 Lohas	300	2015	AGRI	PHS	0000	
	1.26 Lohas	300	2015	AGRI	PHS	0000	
	1.27 Lohas	300	2015	AGRI	PHS	0000	
	1.28 Lohas	300	2015	AGRI	PHS	0000	
	1.29 Lohas	300	2015	AGRI	PHS	0000	
	1.30 Lohas	300	2015	AGRI	PHS	0000	