

# EUROPEAN BIOMETHANE MAP

## INFRASTRUCTURE FOR BIOMETHANE PRODUCTION 2021

Gas Infrastructure Europe (GIE) is the association representing the role of infrastructure in the natural gas business such as Transmission System Operators, Storage System Operators and LNG Terminal Operators. GIE currently has 67 members in 27 European countries.

European Biogas Association (EBA) is the voice of renewable gas in Europe. Founded in October 2020, the association is committed to the active promotion of the production of biogas and biomethane production and use throughout Europe. EBA currently has 100 members in 27 European countries, scientific institutes and companies from Europe and beyond.

### BIOMETHANE DATA LEGEND

**Country - Facility number**

- Plant injecting into / connected to the grid
- Plant not injecting into / connected to the grid
- Grid connection status not known

**AF-1 Asten / Linz 450 2016**

Start of operation

Biomethane Production Capacity (m<sup>3</sup>/h)

Location of biomethane production facility

**MAP LEGEND**

- European country producing biomethane
- Not producing biomethane / no data available

**Cross-border / Interconnection points**

- operational
- planned

**Cross-border interconnection point**

- Intra-country or intra balancing zone point

**Gas Reserve areas**

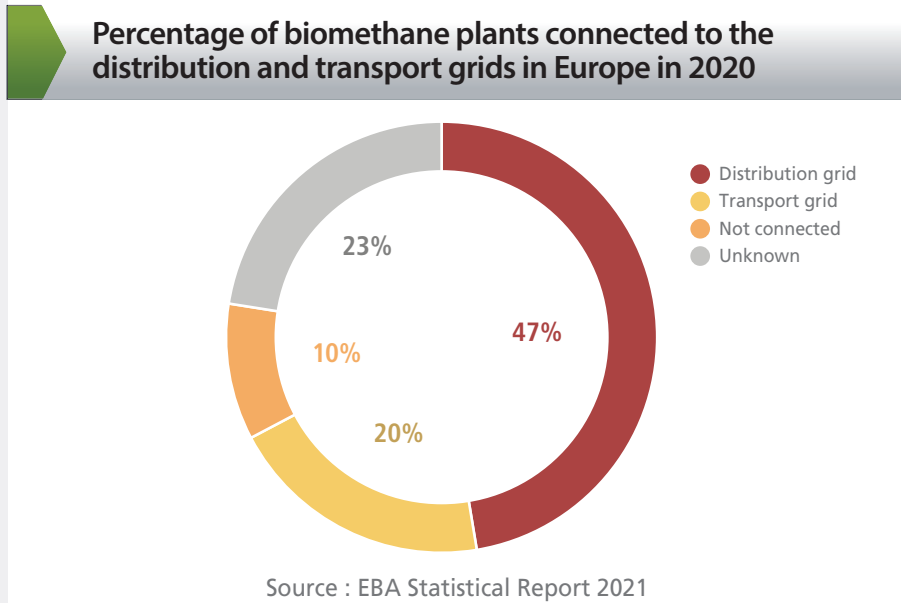
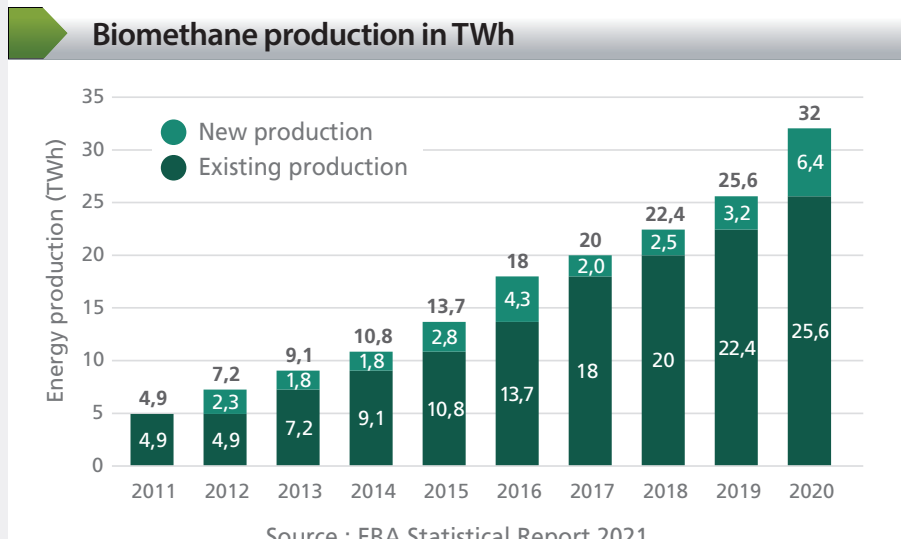
- drilling platform
- gas field

Europe reaches a total of 1,023 biomethane producing facilities by October 2021. Of those, 994 plants were located by the EBA and displayed on this map. Compared to the previous editions of the European Biomethane map, the number of plants in Europe have steadily increased 483 plants in the 2018 edition and 729 in the 2020 edition.

Biomethane production has enjoyed remarkable growth in the last decade. Whereas 2021 figures are not yet fully consolidated, 2020 saw the biggest year on year increase in biomethane production so far, reaching a total of 52 TWh of biomethane in Europe. The growth in production in 2020 was in fact double the growth of the year before and for the year 2021 an even bigger increase is to be expected. A record number of new biomethane plants started production in 2020 and are expected to have been fully operational during 2021.

47% of the biomethane plants currently active in Europe are known to be connected to the distribution grid and 20% are known to be connected to the transport grid. 10% of European biomethane plants do not have a grid connection and for the remaining 23% of Europe's plants no information is available.

Figures presented below and on the European Biomethane map originated from the EBA database. A full elaboration of the biogas and biomethane markets can be found in the EBA statistical report 2021.



### DATA SOURCES

All data provided on this map is for information purposes and shall be treated as indicative only. Under no circumstances shall it be regarded as data intended for commercial use. This map has been built with support of the EBA members and colleagues who have provided the necessary data. Sources for each country are listed below.

Data is covering active facilities only in operation by October 2021. Many more are planned or under construction. Additional information is available in the EBA statistical report 2021.

- AUSTRIA: AGCS
- BELGIUM: Biogas+, ValBiom
- CZECHIA: BIOM
- DENMARK: ENERGINET
- ESTONIA: GDF
- FINLAND: GDF
- FRANCE: dena
- HUNGARY: REA
- IRELAND: BIODAS
- ITALY: BIODAS
- LATVIA: BIODAS
- LITHUANIA: BIODAS
- LUXEMBOURG: dmt
- NETHERLANDS: BIODAS
- NORWAY: Biogas Norge
- PORTUGAL: BIODAS
- SPAIN: AEBIG
- SWEDEN: BIODAS
- SWITZERLAND: REA
- TUNISIA: BIODAS
- UNITED KINGDOM: REA
- USA: BIODAS

| Country | Facility Name       | Facility Number | Production Capacity (m <sup>3</sup> /h) | Start of Operation | Grid Connection Status |
|---------|---------------------|-----------------|---|--------------------|------------------------|
| AUSTRIA | Astern              | 450             | 2016                                    |                    |                        |
|         | Bruck an der Leitha | 500             | 2009                                    |                    |                        |
|         | Erpenried           | 175             | 2008                                    |                    |                        |
|         | Erpenried           | 51              | 2010                                    |                    |                        |
|         | Ludersdorf          | 300             | 2013                                    |                    |                        |
|         | Margareten am Moos  | 400             | 2013                                    |                    |                        |
|         | Rechnitz            | 40              | 2011                                    |                    |                        |
|         | Schiffers           | 26              | 2011                                    |                    |                        |
|         | Stenker/Silberg     | 48              | 2011                                    |                    |                        |
|         | Strub-Lichtenfeld   | 150             | 2016                                    |                    |                        |
| BELGIUM | Vervaeke/Willem     | 400             | 2011                                    |                    |                        |
|         | Wierse/Huistadt     | 120             | 2011                                    |                    |                        |
|         | Zalze/Leuven        | 28              | 2011                                    |                    |                        |
|         | Francist            | 300             | 2017                                    |                    |                        |
|         | Strass Im Zittertal | 50              | 2014                                    |                    |                        |
|         | Requans             | 82              | 2011                                    |                    |                        |
|         | Mehaignes           | 80              | 2018                                    |                    |                        |
|         | Flaines             | 400             | 2009                                    |                    |                        |
|         | Les Buis Villers    | 500             | 2011                                    |                    |                        |
|         | Noufflard           | 400             | 2011                                    |                    |                        |
| CZECHIA | Bohin               | 300             | 2019                                    |                    |                        |
|         | Česká Lipa          | 50              | 2019                                    |                    |                        |
|         | Bogosec             | 1100            | 2015                                    |                    |                        |
|         | Brandševic          | 150             | 2014                                    |                    |                        |
|         | Frederick           | 150             | 2014                                    |                    |                        |
|         | Harmedl             | 124             | 2016                                    |                    |                        |
|         | Tanec               | 150             | 2014                                    |                    |                        |
|         | Hermet              | 520             | 2015                                    |                    |                        |
|         | Hgem                | 1100            | 2017                                    |                    |                        |
|         | Hgem                | 1100            | 2017                                    |                    |                        |
| DENMARK | Holsted             | 2200            | 2014                                    |                    |                        |
|         | Horsens             | 1400            | 2014                                    |                    |                        |
|         | Glamsbjerg          | 2000            | 2014                                    |                    |                        |
|         | Boav                | 1000            | 2014                                    |                    |                        |
|         | Sindal              | 1000            | 2014                                    |                    |                        |
|         | Skov                | 1000            | 2014                                    |                    |                        |
|         | Skov                | 1000            | 2014                                    |                    |                        |
|         | Skov                | 1000            | 2014                                    |                    |                        |
|         | Skov                | 1000            | 2014                                    |                    |                        |
|         | Skov                | 1000            | 2014                                    |                    |                        |
| GERMANY | Achen               | 460             | 2011                                    |                    |                        |
|         | Adelshofen          | 1100            | 2009                                    |                    |                        |
|         | Altenhofen          | 1100            | 2009                                    |                    |                        |
|         | Altenhofen          | 1100            | 2009                                    |                    |                        |
|         | Altenhofen          | 1100            | 2009                                    |                    |                        |
|         | Altenhofen          | 1100            | 2009                                    |                    |                        |
|         | Altenhofen          | 1100            | 2009                                    |                    |                        |
|         | Altenhofen          | 1100            | 2009                                    |                    |                        |
|         | Altenhofen          | 1100            | 2009                                    |                    |                        |
|         | Altenhofen          | 1100            | 2009                                    |                    |                        |

