

Gas Trade Flows (GTF)

2026 Edition

Database documentation

International
Energy Agency

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1. Overview

The Gas Trade Flows (GTF) data service provides monthly physical natural gas flow data with the aim of improving transparency in natural gas markets, with a particular focus on Europe and neighbouring regions. The dataset covers both pipeline and liquefied natural gas (LNG) flows observed at individual cross-border entry and exit points, allowing users to analyse gas movements between countries at a highly granular level.

The GTF product is based on a dedicated IEA data collection system that captures physical flows across the European natural gas network. It complements balance-based gas statistics by providing directional, point-to-point flow information rather than aggregated national trade values.

Data are published every month by the IEA Secretariat on the GTF webpage: <https://www.iea.org/data-and-statistics/data-product/gas-trade-flows>

Data are also accessible in an Interactive Map at <https://www.iea.org/data-and-statistics/data-tools/gas-trade-flows-interactive-map>.

General Notes:

- Data are reported on a monthly M-1 basis.
- As of January 2026, the dataset principally covers the European natural gas network..
- The data represent observed physical gas movements and include both pipeline gas and LNG flows.
- LNG flows are reported at terminal level
- Where both neighbouring countries report the same border point, the IEA selects the gas flow value considered most reliable for publication.
- Historic data are subject to revision; the latest publication should always be considered the most accurate.

2. Data collection and validation

The main source of GTF data is the Gas Trade Flows (GTF) questionnaire. The latest Questionnaire can be downloaded on the IEA website here: <https://www.iea.org/about/data-and-statistics/questionnaires>.

Countries are requested to report physical gas flows on a gross basis, in line with the GTF reporting instructions. Submissions are provided by national administrations, transmission system operators (TSOs), or other designated authorities. Data are updated regularly during the month and validated by the IEA Secretariat prior to publication.

When data are reported by both neighbouring countries for the same border point, the IEA Secretariat assesses consistency and publishes the value considered most reliable.

3. Data structure

The GTF dataset is organised as a single table containing monthly flow values for each border point. Each record corresponds to one border point, one flow direction, one country pair, and one monthly observation.

The dataset includes border point identifiers, entry and exit countries, maximum flow capacity (where available), and monthly physical flow values by month.

Dimensions

Dimension	Definition
Border point	A physical or virtual location where natural gas crosses an international boundary. Virtual location reporting occurs when countries report aggregated values from multiple physical border points under a single reporting point.
Exit	Exit country. Set to <i>Liquefied Natural Gas</i> for exits through an LNG terminal.
Entry	Entry country. Set to <i>Liquefied Natural Gas</i> for entries through an LNG terminal.
MAXFLOW(Mm3/h)	Maximum technical flow capacity of a border point (where available) reported in million cubic metres per hour (Mm ³ /h).
Month	Gas flows reported in million cubic metres (Mm ³) for each month.

Units

Gas flows are reported in million cubic metres (Mm³). Flow capacity is reported in million cubic metres per hour (Mm³/h). All volumes are expressed at standard conditions of 15 °C and 760 mm Hg.

Coverage and limitations

The dataset focuses on Europe and neighbouring regions. Coverage varies by country and border point depending on national reporting practices. Over time, certain border points may be added or removed due to infrastructure changes, confidentiality constraints, or methodological updates. New border points and revisions are incorporated progressively.

4. Country notes

Below is the list of countries that have participated in the GTF data collection. For the most up-to-date data status of each country, please refer to the **NOTES** tab in the Excel file.

Reporting Country	Notes
Austria	
Belgium	Several points have been reported as Virtual border points (aggregates). See NOTES tab in Excel for detailed information.
Bulgaria	
Croatia	
Czech Republic	
Denmark	
Estonia	
Finland	
France	
Germany	
Greece	
Hungary	
Ireland	

Italy	
Latvia	
Lithuania	
Luxembourg	
Netherlands	Data available until December 2019
Norway	
Poland	
Portugal	
Romania	
Slovak Republic	
Slovenia	
Spain	
Sweden	
Switzerland	
Tunisia	Data available until June 2019
Turkey	
Ukraine	Data available until December 2019
United Kingdom	Data are available on a M-2 basis.