

User Manual

API access to AGSI / ALSI / IIP

6 March 2025 / v013



1. Introduction

GIE is offering an API service (Application Programming Interface) on its AGSI, ALSI and IIP transparency publication platforms at <https://agsi.gie.eu>, <https://alsi.gie.eu> and <https://iip.gie.eu> which provides quick, continuous, and direct access to the database and allows you to filter, create queries and export the data as required. This means that you do not have to set up complex processes to download files from a remote location, or to crawl through the AGSI/ALSI/IIP web pages to extract the data from the various web site components. All of this can be directly downloaded, bypassing any web layer, by accessing the available REST APIs.

API Access

The API service is available to the public free of charge.

Registration on the AGSI, ALSI or IIP website is mandatory for non-data providers to be able to use the API. Registration will result in a personal API key that is required within the API URL. The only purpose of this registration is to enable us to assess and improve the performance of our systems where and if required (user count, user activity, most popular dataset types) and to be able to inform you (via your subscription to our mailing list).

Your account information and settings can be updated (and canceled) at any time after signing in. Your data will be stored and securely handled if your account remains active.

API access for SSO/LSO/TSO data providers

Please note that all SSO / LSO / TSO accounts (*data providers*) using GIE as RRM (Registered Reporting Mechanism) for REMIT reporting towards ACER or who are providing data for the AGSI / ALSI / IIP publication can also generate an API key through their user account at <https://remit.gie.eu/users/profile>.

These accounts are already registered at GIE and are also already subscribed to our IT mailing lists (unless you have opted out). Data providers can use the same login credentials used for access to the REMIT portal once you have generated an API key in your REMIT user profile interface. You can opt to have access to AGSI, ALSI, IIP separately or use on key to access all.

Currently, API keys are set to never expire. This might change in the future.

API mailing list

If you would like to be kept up to date on any changes (Service Announcements) on the AGSI, ALSI and IIP platforms, you can opt to subscribe to our API mailing list in the registration form.

Technical implementation

API (Application Programming Interface) provides programmatic access to the data.

API access is provided in a REST-like interface (Representational State Transfer) exposing database resources in a JSON format. JSONP is currently not supported but is foreseen in the future to also allow for cross domain requests.

Additional documentation, examples, and guidance on how to use and implement the API service is provided below.

Data coverage

Daily storage and LNG inventory status, unavailability reporting and urgent market messaging (UMM)

All data published on GIE Transparency Platforms (AGSI, ALSI and IIP) is based on EU REMIT regulatory reporting (for data definition, usage and regulatory requirements) and has been collected / reported directly from the concerned infrastructure operator. GIE serves as RRM (Registered Reporting Mechanism) under REMIT and as Inside Information Platform (IIP) for disclosure of Urgent Market Messages (UMMs).

GIE's (AGSI and ALSI) Transparency Platforms fulfill the function of single, joint and central Transparency Platform by Storage and LNG System Operators, maintained by these Operators and offering pan-European coverage. Since 2023, AGSI and ALSI are covering 100% of EU27.

Aggregated datasets for Storage and LNG

Both individual facility datasets and aggregated datasets (by company and country level) are available. Aggregated datasets are to be exported using the additional REST API parameters (see below).

Storage facilities and Storage Groups

Note that for storage data, a dataset can be either an individual storage facility, or a storage group (virtual storage) which is comprised of multiple storage facilities. The composition of a storage group can evolve and change over time (any changes will be posted in our NEWS feed).

Facility Operators

Note that facilities can change ownership, which will result in the facility dataset being assigned to another SSO or LSO. Any such changes are reported through the NEWS feed.

Historical data usage (timeframe)

- new facilities and decommissioning
If a new (storage or LNG) facility comes online, or when a (storage or LNG) facility is being decommissioned or shut down, the related dataset start/end date is to be considered. Any such information is also reported through a NEWS item, as it has an impact on the historical (aggregated) dataset coverage. Historical data for facilities that have changed ownership, or have been decommissioned or shut down, remains available through a dedicated separate code (typically starting with PRIOR).
- historical data range
Historical data has been requested from all SSO/LSO publishing on AGSI/ALSI for the following timeframe:
 - On AGSI: historical data since 01/01/2011 or since the date the storage facility has become operational and/or until the storage facility has been decommissioned or changed ownership.
 - On ALSI: historical data since 01/01/2012 or since the date the LNG terminal has become operational
- Historical data coverage
Note that full historical data coverage may not (yet) be available for all operators and facilities. Some operators only provided historical data since start of REMIT reporting (07/04/2016) or since the moment their facility started commercial operations. The historical data coverage is however been continuously completed and improved. Specific focus should be put on data reporting since 2016, as that will offer the best possible / available historical data coverage.

Urgent Market Messages (UMM)

Disclosure of UMM via the GIE Inside Information Platform (IIP) by infrastructure operators that are considered to be Market Participants (MP) under REMIT. A Market Participant is a system operator which is also active on the wholesale market for energy.

2. Data field library

2.1 EIC listing

2.1.1 /api/about?show=listing

Field identifier	Description	Data type
name	Name of the company	string
short_name	Short name of the company	string
type	Type of the company (SSO, LSO, TSO)	string
eic	EIC of the company	EIC
country	Slug (code) of the country	string (2 characters)
url	URL to get the data through API	URL
facilities	Array of underlying facilities	array
name	Name of the underlying facilities	string
type	Type of the facility	string
eic	EIC of the facility	EIC
country	Slug (code) of the country	string (2 characters)
company	Company EIC code	EIC
url	URL to get the data through API	URL
operational_start_date	Date of when the facility started reporting	date / null
operational_end_date	Date of when the facility is going to stop reporting (null if not set)	date / null

```
▼ [
  ▼ {
    "name": "astora GmbH",
    "short_name": "astora",
    "type": "SSO",
    "eic": "21X000000001160J",
    "country": "AT",
    "url": "https://agsi.gie.eu/api?country=AT&company=21X000000001160J",
    "facilities": [
      ▼ {
        "name": "UGS Haidach (astora)",
        "type": "Storage Facility",
        "eic": "21W00000000078N",
        "country": "AT",
        "company": "21X000000001160J",
        "url": "https://agsi.gie.eu/api?country=AT&company=21X000000001160J&facility=21W00000000078N",
        "operational_start_date": "2011-01-01",
        "operational_end_date": null
      }
    ]
  },
  ▼ {
    "name": "GSA LLC",
    "short_name": "GSA",
    "type": "SSO",
    "eic": "25X-GSALLC-----E",
    "country": "AT",
    "url": "https://agsi.gie.eu/api?country=AT&company=25X-GSALLC-----E",
    "facilities": [
      ▼ {
        "name": "UGS Haidach (GSA)",
        "type": "Storage Facility",
        "eic": "25W-SPHAID-GAZ-M",
        "country": "AT",
        "company": "25X-GSALLC-----E",
        "url": "https://agsi.gie.eu/api?country=AT&company=25X-GSALLC-----E&facility=25W-SPHAID-GAZ-M",
        "operational_start_date": "2011-01-01",
```

[Raw](#)[Parsed](#)

For more information, or a hierarchical listing, omit the '?show=listing' parameter:

2.1.2 /api/about

Field identifier	Description	Data type
company_type	Type of the underlying companies (SSO, LSO, TSO)	string
type	Europe / Non-Europe	string
country	Name of the country	string
image	base64 encoded image (logo)	string (base64 encoded)
short_name	Short name of the company	string
name	Name of the company	string
publication_link	Link to the company's website or publication location	URL
transparency_template	Link to the transparency template	URL
operational_information	Link to the operational information of the company	URL
available_capacities	Link to the available capacities webpage of the company	URL
tariffs	List of all the tariff information of the company	array
type	Type of link (pricing, fee or other)	string
url	The URL to the website page or document for the tariff information	URL
description	Description or short title of the page/document	string
eic	EIC of the company	EIC
facilities	Array of facilities	array
eic	EIC of the facility	EIC
name	Name of the facility	string
country	Array with facility's country data	array
code	Country code	string (2 characters)
name	Name of the country	string
type	Facility type	string
operational_start_date	Date of when the facility started reporting	date / null
operational_end_date	Date of when the facility is going to stop reporting (null if not set)	date / null
data	Data array with more information	array
type	Company type (SSO, LSO, TSO)	string
country	Array with company's country data	array
code	Country code	string (2 characters)
name	Country name	string
code	Europe (EU) / Non-Europe (NE)	string (2 characters)
name	Europe / Non-Europe	string

```

{
  "SSO": {
    "Europe": {
      "Austria": [
        {
          "image": "iVBORw0KGgoAAAANSUhEUgAAAIwAAAAzCAIAAADKPNfJAAAAGXRFWHRTb2Z0d2FyZQBBZG9iZS8jbWFnZVJlYWRS5cc1lPAAAYZpVFh0WE1MOmNvbS5hZG9iZS54bXAAAAAAD",
          "short_name": "GSA",
          "name": "GSA LLC",
          "publication_link": "http://www.gsa-services.ru/",
          "transparency_template": "",
          "operational_information": "http://www.gsa-services.ru",
          "available_capacities": "",
          "tariffs": [],
          "eic": "25X-GSALLC-----E",
          "facilities": [
            {
              "eic": "25W-SPHAID-GAZ-M",
              "name": "UGS Haidach (GSA) // historical data prior to 6 Oct 2022",
              "country": {
                "code": "AT",
                "name": "Austria"
              },
              "type": "DSR",
              "operational_start_date": "2011-01-01",
              "operational_end_date": "2022-10-07"
            }
          ],
          "data": {
            "type": "SSO",
            "country": {
              "code": "AT",
              "name": "Austria"
            },
            "code": "EU",
            "name": "Europe"
          }
        }
      ],
    },
    {
      "image": "iVBORw0KGgoAAAANSUhEUgAAAIwAAAAqCAMAAABWw0P/AAAAGXRFWHRTb2Z0d2FyZQBBZG9iZS8jbWFnZVJlYWRS5cc1lPAAAYZpVFh0WE1MOmNvbS5hZG9iZS54bXAAAAAAD",
      "short_name": "OMV Gas Storage (6)",
      "name": "OMV Gas Storage GmbH",
      "publication_link": "http://www.omv-gas-storage.com",
      "transparency_template": "https://www.omv-gas-storage.com/en/storage-austria/contact/transparency",
      "operational_information": "https://www.omv-gas-storage.com",
      "available_capacities": "https://ocb-st.omv.com/ocb/app/?USER=guest&PASSWORD=anonymous&STARTCONTEXT=omv.akv.contexte.KapazitaetChartContext",
      "tariffs": [
        {
          "type": "pricing",
          "url": "https://www.omv-gas-storage.com/en/storage-austria/storage-services/bundled-services",
          "description": ""
        },
        {
          "type": "fee",
          "url": "https://ocb-st.omv.com/ocb/app/?STARTCONTEXT=tariffcalculator",
          "description": ""
        }
      ],
      "eic": "25X-OMVGASSTORAS",
    }
  }
}

```

2.2.1 /api/news

```
{
  "data": [
    {
      "url": "371674",
      "start_at": "2023-11-02 16:00:00",
      "end_at": null,
      "title": "Data clarification : Filling levels above 100%",
      "summary": "",
      "details": "<p>Indicated Filling level % are calculated with reference to the max. capacity that can be sold under the long term plus temporary available licensed permits. Storage levels above reported WGV (technical capacity) are possible and represent the long-term technical capacity plus the additional temporary capacities, leading to filling levels above 100%.</p>",
      "entities": []
    },
    {
      "url": "371616",
      "start_at": "2023-11-02 09:00:00",
      "end_at": "0000-00-00 00:00:00",
      "title": "Swedegas (SE) / UGS Skallen - data correction for WGV and storage expected for gasDayStart 31/10 - gasDayEnd 01/11",
      "summary": "",
      "details": "<p>Swedegas (SE) / UGS Skallen - data correction for WGV and storage expected for gasDayStart 31/10 - gasDayEnd 01/11</p>",
      "entities": [
        {
          "name": "Swedegas AB",
          "logo": "\iVBORwOKGgoAAAANSUHEUGAAAIwAAAAOYCAAYABYWdAmAAAAGXRFWHRTbZ0d2FyQzBGBG9iZSBjbWFnVjJlYWRScc1lPAAAYBPfH0WE1MOMnNbS5ShZG9iZS54XAADAw/eHBhY2tldCBiZWdpbj0i77u/IiBpZD0iVzVNME1wQ2VOaUh6cmVTek5UY3prYzlkIj8+IDx4OnhtcGlldGEgeG1sbmM6eD0iYWRRvYmU6bnM6bWV0YS8iIHg6eG1wdGs9IkFkb2JlIFhNUCBBDb3JlIDUuNi1jMTM4IDcSLjlE1OTgtNCwgMjAxNis0S8xNC0wMTowOTowMSAgICAgICAgIj4gPHJkZjpREYgeG1sbmM6cmRmpS3odHRwOi8vd3Jlc3Z3LnczM9yZy8xOTK5LAyLzIyLXJkZi1zeW50YTgtbnMjIj4gPHJkZjpEZXXncmlwdGlvbiByZGY6YWJvdXQiPS9iiGeG1sbmM6eG1wTU09Imh0dHA6Ly9ucyZhZG9iZS5jb20veGFwLzEuMC9tbS8iIHhtbG5zOnN0UmVmPSJodHRwOi8vb3MuYWRvYmUuY29tL3hhcC8xLjAvc1R5cGUuUmVzb3VyY2VSZW50IiBiB4bwuxczp4bXA9Imh0dHA6Ly9ucyZhZG9iZS5jb20veGFwLzEuMC8iIHhtcE1NOkRvY3VtZW50SUQ9InhtcC5kaWNoQ6QjFDM0UXQM3QTJ0HTFFnzIGRDIA4njc0RKMyNDBFMjEiIHhtc
```

/api/news?url=371616

[illegible]

The following data fields are published on AGSI:

2.3 AGSI

- Facility Report listing

2.3.1 /api

Field identifier	Description	Data type
last_page	Amount of pages available for the query	numeric
total	Amount of data entries for the page	numeric
dataset	Breadcrumb for the dataset	URL
gas_day	The current Gas Day Start date	date
data	Array of data entries	array
name	Name of the data entry	string
code	The code or EIC of the data entry	string
{publication_link}	{optional} Link to company's website (company only)	URL
{transparency_template}	{optional} Link to company's transparency template (company only)	URL
url	The portion used in the URL on AGSI/ALSI for direct linking	string
{longitude}	{optional} Longitude of the facility (facility only)	longitude
{latitude}	{optional} Latitude of the facility (facility only)	latitude
{type}	{optional} Type of the facility (facility only): (DSR) Depleted Field, (ASR) Aquifer, (ASF) Salt Cavern, (SRC) Rock Cavern, (GRP) Virtual Storage Group	string
updatedAt	Last touched timestamp.	datetime
gasDayStart	The start of the gas day reported upon	date
gasInStorage	Total amount of gas in storage at the facility, status at end of gas day (4 digits accuracy)	TWh
{consumption}	{optional} Consumption level, only for countries (4 digits accuracy)	TWh
{consumptionFull}	{optional} Consumption full, only for countries	%
injection	Injection during gas day (2 digits accuracy)	GWh/d
withdrawal	Withdrawal during gas day (2 digits accuracy)	GWh/d
netWithdrawal	Net Withdrawal (withdrawal – injection) during gas day (2 digits accuracy)	GWh/d
workingGasVolume	Maximum amount that can be stored at the facility (technical capacity) (4 digits accuracy)	TWh
injectionCapacity	Maximum technical injection capacity (2 digits accuracy)	GWh/d
withdrawalCapacity	Maximum technical withdrawal capacity (2 digits accuracy)	GWh/d
{contractedCapacity}	Only for companies & facilities (4 digits accuracy)	TWh
{availableCapacity}	Only for companies & facilities (4 digits accuracy)	TWh
{coveredCapacity}	Only for EU/Non-EU and countries (2 digit accuracy)	%
status	E (estimated) C (confirmed) N (no data)	E / C / N
trend	injection - withdrawal)/WGV	+ / -
full	Storage / WGV (in%)	%
info	Service Announcement (if applicable)	array
{children}	Underlying data children (if applicable)	array

To get the historical listing for a type (EU/NE¹), country, company, or facility, see chapter 7: [REST API Parameters](#)

¹ EU: Europe

NE: Non-EU

2.3.2 /api/unavailability

Field identifier	Description	Data type
last_page	Amount of pages available for the query	numeric
total	Amount of data entries for the page	numeric
dataset	Unavailability Reports	string
data	Array of data entries	array
published	Publish datetime of the data entry	datetime
country	country	array
name	Name of the country	string
code	Country code	string
company	company	array
name	Name of the reporting company	string
eic	EIC of the reporting company	string
facility	facility	array
name	Name of the reporting facility	string
eic	EIC of the reporting facility	string
start	Start of the unavailability	datetime
end	End of the unavailability	datetime
volume	Unavailable volume (3 digits accuracy)	TWh
injection	Unavailable injection (1 digit accuracy)	GWh/d
withdrawal	Unavailable withdrawal (1 digit accuracy)	GWh/d
description	Description of the unavailability	text
end_flag	Estimated or Confirmed	Estimated / Confirmed
type	Planned or Unplanned	Planned / Unplanned

The following data fields are published on ALSI:

2.4 ALSI

- Facility Report listing

2.4.1 /api

Field identifier	Description	Data type
last_page	Amount of pages available for the query	numeric
total	Amount of data entries for the page	numeric
dataset	Breadcrumb for the dataset	URL
gas_day	The current Gas Day Start date	date
data	Array of data entries	array
name	Name of the data entry	string
code	The code or EIC of the data entry	string
{publication_link}	{optional} Link to company's website (company only)	URL
{transparency_template}	{optional} Link to company's transparency template (company only)	URL
url	The portion used in the URL on AGSI/ALSI for direct linking	string
{longitude}	{optional} Longitude of the facility (facility only)	longitude
{latitude}	{optional} Latitude of the facility (facility only)	latitude
{type}	{optional} Type of the facility (facility only): (FSRU) Floating Storage Regasification Unit, (LAND) Land-based terminal	string
updatedAt	Last touched timestamp.	datetime
gasDayStart	The start of the gas day reported upon	date
inventory	Field combining LNG and ~GWh	array
lng	Aggregated amount of LNG in the LNG tanks, status at end of gas day (2 digits accuracy)	10 ³ m ³ LNG
gwh	Inventory in energy units	~ GWh
sendOut	Aggregated gas flow out of the LNG facility, send-out during gas day (1 digit accuracy)	GWh/d
dtmi	Field combining LNG and ~GWh	array
lng	Declared Total Maximum Inventory, (LNG storage capacity) (2 digits accuracy)	10 ³ m ³ LNG
gwh	DTMI in energy units	~ GWh
dtrs	Declared Total Reference Send-out, (Send-out capacity) (1 digit accuracy)	GWh/d
{contractedCapacity}	Capacity that the LNG Facility Operator has allocated to a user by means of a contract (1 digit accuracy) (company and facility only)	GWh/d
{availableCapacity}	The part of the technical capacity that has not been allocated to a user and is still available (1 digit accuracy) (company and facility only)	GWh/d
{coveredCapacity}	Only for EU/Non-EU/AI and countries (2 digit accuracy)	%
info	Service Announcement (if applicable)	array
status	E (estimated) C (confirmed) N (no data)	E / C / N
{children}	Underlying data children (if applicable)	array

To get the historical listing for a type (EU/NE/AI²), country, company, or facility, see chapter 7: REST API Parameters

² EU: Europe

NE: Non-EU

AI: Additional Information

2.4.2 /api/unavailability

Field identifier	Description	Data type
last_page	Amount of pages available for the query	numeric
total	Amount of data entries for the page	numeric
dataset	Unavailability Reports	string
data	Array of data entries	array
published	Publish datetime of the data entry	datetime
country	country	array
name	Name of the country	string
code	Country code	string
company	company	array
name	Name of the reporting company	string
eic	EIC of the reporting company	string
facility	facility	array
name	Name of the reporting facility	string
eic	EIC of the reporting facility	string
start	Start of the unavailability	datetime
end	End of the unavailability	datetime
capacity	Unavailable capacity (3 digits accuracy)	GWh/d
description	Description of the unavailability	text
end_flag	Estimated or Confirmed	Estimated / Confirmed
type	Planned or Unplanned	Planned / Unplanned

2.5 IIP

2.5.1 /api

Field identifier	Description	Data type
last_page	Amount of pages available for the query	numeric
total	Amount of data entries for the page	numeric
data	Array of data entries	array
submitted	Timestamp of the UMM report submission	datetime
reportingEntity	Reporting entity data	array
name	Name of the reporting entity	string
code	Identifier code of the reporting entity (EIC)	string
type	Type of the reporting entity (SSO, LSO, TSO)	string
reportingEntityString	String with all the data from reportingEntity array	string
message	Message data	array
messageId	Message identifier with version number	string
messageType	Type of the message	string
reportType	Type of report (Gas / Other Market Information)	string
unavailabilityType	Type of unavailability (Unplanned or Planned for Gas, null for Other Market Information)	string/null
messageString	String with all the data from message array	latitude
status	Active / Inactive / Dismissed	string
from	Start of unavailability	datetime
to	End of unavailability	datetime
duration	Human readable duration of unavailability	string
marketParticipant	Market participant data array	array
code	Identifier code of the market participant (EIC)	string
name	Name of the market participant	string
marketParticipantString	String with all the data from the marketParticipant	string
asset	Affected asset or unit data	array
name	Name of the affected asset or unit	string
code	Identifier code of the affected asset or unit	string
assetString	String with all the data from the asset	string
direction	Entry / Exit	string
unavailable	Unavailable capacity	array
capacity	The unavailable capacity	float
unit	The unit for the unavailable capacity	string
available	Available capacity	array
capacity	The available capacity	float
unit	The unit for the available capacity	string
technical	Technical capacity	array
capacity	The technical capacity	float
unit	The unit for the technical capacity	string
balancingZone	Balancing zone data array	array
code	Identifier code for the balancing zone	string
name	Name of the balancing zone	string
balancingZoneString	String with all the data from the balancingZone	string
unavailabilityReason	Reason for the unavailability	string
remarks	Extra remarks	string
Published	Timestamp when report was published on IIP.gie.eu	datetime
rss	Complete XML report encoded in Base64	string

{prev}

{Optional} Array of previous iterations of the UMM. Each entry in the array is set up exactly like the main data entry. Order of the entries is intentional and not random.

array

To get a specific UMM report, or to apply filters on the data set, see [chapter 7: REST API Parameters](#)

3. Data

3.1 Data quality indicators (on AGSI/ALSI)

The data quality status (Estimated/Confirmed/No Data) is part of the available datasets, as well as any related NEWS item (status update) linked to each dataset.

Any applicable NEWS item is available through the info data field as an URL linking to the related news item.
(see also overview listing at <https://agsi.gie.eu/news> and <https://alsi.gie.eu/news>)

3.2 Dataset identification

Each storage system operator (SSO), LNG terminal operator (LSO), Transmission System Operator (TSO) and its listed assets are identified using EIC codes.

The mapping table for these EIC codes is available from the GIE Transparency Platforms (after login).

Please note that the EIC code database is subject to updates and EIC codes used on AGSI / ALSI / IIP can change over time. For example: Facilities can change operator, new facilities or operators can become operational or be decommissioned, a facility can be moved within a (virtual) storage group and change code, etc.

If such changes would have occurred, we will be inform you through the NEWS feeds (updates posted on AGSI / ALSI).

3.3 Units of Measurement and data definitions

Additional information on units of measurement and specific data definitions are available at the AGSI and ALSI Platform.

3.4 Data updates – publication timing and processing

The data is available in daily frequency and represents gas in Storage / LNG at the end of the previous gas day. Data is updated every day at 19:30 CET and a second time at 23:00. Some SSO/LSO are not able to provide their data before 19:30 but these will be included in the second publication time.

3.5 Additional briefing materials

The GIE team organizes regular briefings on its Transparency Platforms, to inform on data usage, data analysis and new developments. These GIE Transparency Roundtables are open to the public and we encourage our audience to join and learn more about the specifics and how our platforms evolve. Please subscribe to our mailing list at <https://agsi.gie.eu/subscribe> or <https://alsi.gie.eu/subscribe> to be informed on these in advance. Presented materials remain available – see links below – and can serve as additional reference material. A new GIE Transparency Roundtable will be organized in 2025.

GIE TRA RT 2022 – 27 April 2022 / 15:30-16:30 CET

https://www.gie.eu/download/2022/GIE_TRA_ROUNDTABLE_012.pdf

GIE TRA RT 2022 – 8 November 2022 / 15:30-16:30 CET

https://www.gie.eu/download/2022/GIE_TRA_ROUNDTABLE_II_018.pdf

GIE TRA RT 2023 – 1 June 2023 / 15:30-16:30 CET

https://www.gie.eu/download/2023/230601_GIE_TRA_ROUNDTABLE_III_v2.pdf

4. Assistance

4.1 Technical assistance (API)

Any technical inquiries related to the implementation of the API service can be addressed to api@gie.eu. Our IT team will be happy to assist you.

4.2 Data clarification

Any content inquiries on data published through AGSI/ ALSI can be addressed to transparency@gie.eu. Note that for inquiries related to a specific SSO or LSO, the operator may need to be contacted directly or GIE team will need to request additional data clarification, as GIE cannot speak on behalf of the concerned Operator.

AGSI / ALSI offers you the possibility to be kept up to date whenever a new Service Announcement or update from one of our data providers is posted on the website. Please provide your contact details using the subscription form, and you will be informed by e-mail whenever news or updates are made available.

AGSI: <https://agsi.gie.eu/subscribe> or ALSI : <https://alsi.gie.eu/subscribe>

GIE is also providing additional related data such as the Storage Map, LNG Map and Storage and LNG Investment Databases at <http://www.gie.eu/maps-data/>

5. Disclaimer

All data is provided by the contributors on a voluntary basis and free of charge. The Data provided by AGSI / ALSI / IIP is for information only. GIE is using reasonable efforts to invest in ensuring the correctness, completeness, and timeliness of the information provided herein. Data have been carefully checked, are updated at regular intervals and may be subject to changes, removal, or amendments without prior notice.

GIE neither assumes any warranty or liability for the correctness and completeness of information/services and entries nor for the mode of presentation.

6. Tutorial

6.1 Account setup

Accounts, free of charge, can be set up on either ALSI, AGSI or IIP by going to API in the menu (/account). Here you can either register a new account or log in to an existing one.

To register, the details needed are:

- First name
- Last name
- Email address
- Password
- Company
- Telephone number (optional)
- Access restriction: you can choose to only be able to access the website you are registering on or both
- Your consent and notice of credit/attribution rules
- Subscription to the mailing list (optional)

Log In

Login to access and edit your account or subscription settings, access the API documentation and get your API key

 email

 password

Login [Forgot password?](#)

Register

Register to get access to the API documentation and get an API key Required fields

 first name

 last name

 email

 password

 company

 telephone

 Access to:
☒ IIP ☐ All (IIP, AGSI and ALSI)

☐ I consent to GIE to collect data in order to track my usage of the API service

☐ I understand that if no credit or source is mentioned, GIE can disable / de-activate my API access key

☐ I would like to **subscribe to the API Service mailing list** in order to receive Service Announcements and updates

You need to give your consent before being able to register.

You need to agree that you understand that, if you publish data provided by GIE, you need to give credit or mention GIE as source.

Register

6.2 API page

After a successful log in, the API Account page will be available. Here you can view/download the latest API manual, view your API key, change some settings in your account and view/download the EIC listing. You can also delete your account if it is not linked to a REMIT account. If it is linked, please send an email to api@gie.eu to request deletion of your account.

6.3 EIC code mapping

The EIC listing (code mapping) is available on your account page. Here you can find direct links to API calls for specific companies/facilities.

Download EIC listing:

Country 	Type	EIC Code	Short Name	Name
BE	LSO	21X000000001006T	Fluxys LNG	Fluxys LNG S.A.
BE	LNG Terminal	21W0000000001245		Zeebrugge LNG Terminal
HR	LSO	31X-LNG-HR----7	LNG Croatia	LNG Hrvatska d.o.o.
HR	LNG Terminal	21Z000000000510W		Krk LNG Terminal (FSRU)
FR	LSO	21X0000000010679	Elengy	Elengy S.A.
FR	LNG Terminal	21Z000000000028X		Fos Tonkin LNG Terminal
FR	LNG Terminal	21Z000000000029V		Montoir de Bretagne LNG Terminal
FR	LSO	21X000000001331I	Dunkerque LNG	SAS Dunkerque LNG
FR	LNG Terminal	21W0000000000451		Dunkerque LNG Terminal
FR	LSO	21X000000001070K	FOSMAX LNG	SAS FOSMAX LNG
FR	LNG Terminal	21Z000000000148N		Fos Cavaou LNG Terminal
GR	LSO	21X-GR-A-A0A0A-G	DESFA	Hellenic Gas Transmission System Operator S.A.
GR	LNG Terminal	21W000000000040B		Revythoussa LNG Terminal
IT	LSO	26X00000117915-0	GNL Italia	GNL Italia S.p.A.
IT	LNG Terminal	21Z0000000000430		Panigaglia LNG Terminal
IT	LSO	21X000000001109G	OLT Offshore LNG Toscana	OLT Offshore LNG Toscana S.p.A
IT	LNG Terminal	21W0000000000443		FSRU OLT Offshore LNG Toscana
IT	LSO	21X000000001360B	Adriatic LNG	Terminale GNL Adriatico S.r.l.
IT	LNG Terminal	21W0000000000082W		Porto Levante LNG

Note:

- **[ALSI] ES*: Additional Information – Spain** / As from 1st April 2020 a single virtual LNG tank grouping the storage capacity of all Spanish LNG terminals is in place. It is known as Virtual Balancing LNG Tank (TVB). From the commercial point of view, LNG storage capacity and regasification capacity are no longer offered at individual LNG terminals. While the data included in the TVB section refers to commercial information, the individual data shown above for each LNG terminal refers to physical information. Therefore, the aggregated data of individual LNG terminals (physical data) may differ from the data shown under TVB section (commercial data).
- **[AGSI/ALSI] GB / GB***:
 - **EU – United Kingdom** / Pre-Brexit data for United Kingdom until (included) 2020-12-30
 - **Non-EU – United Kingdom** / Post-Brexit data for United Kingdom, starting from 2020-12-31

6.4 Importing data – cURL

Using the links from the previous pages and your API key, you can send requests to the API to get the data in JSON format:

```
curl https://agsi.gie.eu/api?type=eu --header "x-key: YOUR_API_KEY"
{"last_page":159,"total":30,"dataset":"EU","gas_day":"2022-04-19",
"data":[{"name":"EU","code":"eu","url":"eu","gasDayStart":"2022-04-19",
"gasInStorage":326.9226,"consumption":4151.8372,"consumptionFull":7.87,"injection":
```

If the API key is not supplied or incorrect, no data is returned.

To automatically loop over the API results, a bash file is needed. We cannot support this much further.

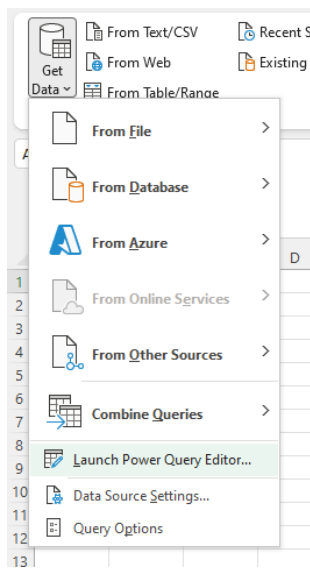
6.5 Importing data – Excel

To access the data from an external source, you need to send the x-key as a parameter in your header.

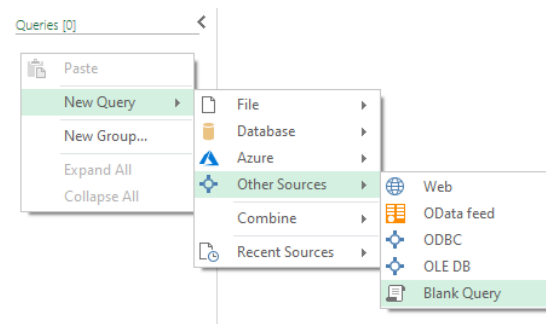
When using Excel, you can import the data using the following code snippet. By changing the URL and parameters, you can finetune it to your needs. This example uses the paging logic present in API V2.

Steps are as follows:

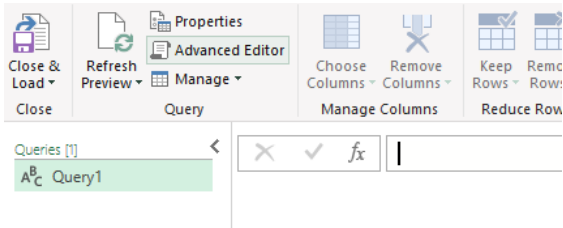
1 – Create a new workbook (or tab) and go to Data > Get Data > Launch Power Query Editor.



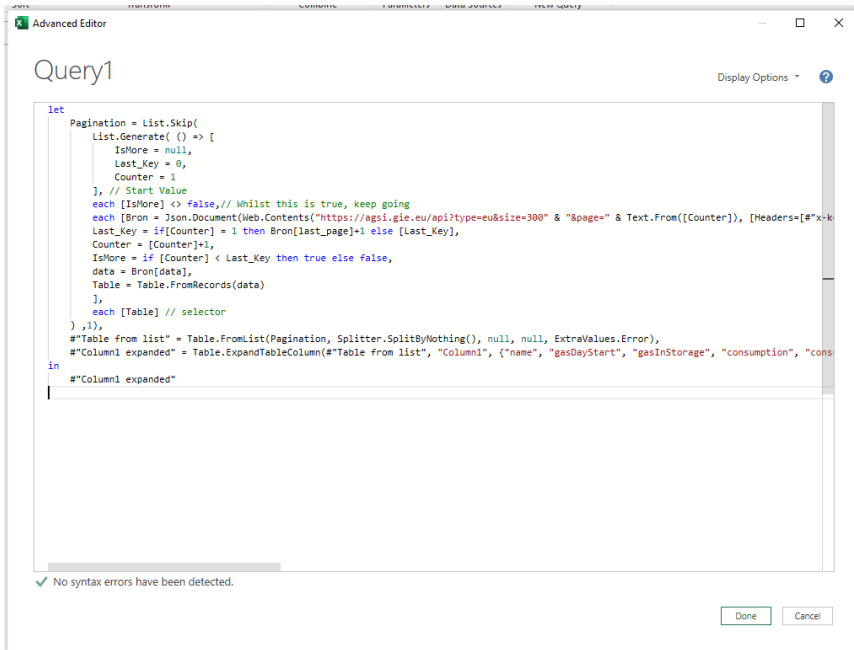
2 – Right click underneath 'Queries' and choose New Query > Other Sources > Blank Query



3 – When the new blank query is created, click on Advanced Editor:



4 – Copy paste (and edit where needed) the query provided below in the opened Editor:



The highlighted code can be changed without causing the pagination to break (YOUR_API_KEY *has* to be changed into your actual key otherwise it won't fetch any data).

```
let
    Pagination = List.Skip(
        List.Generate( () => [
            IsMore = null,
            Last_Key = 0,
            Counter = 1
        ], // Start Value
        each [IsMore] <> false, // Whilst this is true, keep going
        each [Bron = Json.Document(Web.Contents("https://agsi.gie.eu/api?type=eu&size=300" & "&page=" &
Text.From([Counter])), [Headers=[#"x-key"="YOUR_API_KEY"]])], // retrieve results per call
        Last_Key = if [Counter] = 1 then Bron[last_page]+1 else [Last_Key],
        Counter = [Counter]+1,
        IsMore = if [Counter] < Last_Key then true else false,
        data = Bron[data],
        Table = Table.FromRecords(data)
    ],
    each [Table] // selector
    ), 1),
    #"Table from list" = Table.FromList(Pagination, Splitter.SplitByNothing(), null, null, ExtraValues.Error),
    #"Column1 expanded" = Table.ExpandTableColumn(#"Table from list", "Column1", {"name", "gasDayStart",
"gasInStorage", "consumption", "consumptionFull", "injection", "withdrawal", "workingGasVolume",
"injectionCapacity", "withdrawalCapacity", "status", "trend", "full"}, {"name", "gasDayStart", "gasInStorage",
"consumption", "consumptionFull", "injection", "withdrawal", "workingGasVolume", "injectionCapacity",
"withdrawalCapacity", "status", "trend", "full"})
in
    #"Column1 expanded"
```

The following example is for retrieving the tree data set like on the AGSI / ALSI frontpages:

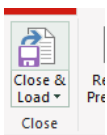
AGSI

```
let
    Source = Json.Document(Web.Contents("https://agsi.gie.eu/api", [Headers={"x-key":"YOUR_API_KEY"}])),
    #"Converted to Table" = Record.ToTable(Source),
    Value = #"Converted to Table"{4}[Value],
    #"Converted to Table1" = Table.FromList(Value, Splitter.SplitByNothing(), null, null, ExtraValues.Error),
    Type = Table.ExpandRecordColumn(#"Converted to Table1", "Column1", {"name", "gasDayStart", "children"},
    {"Column1.name", "Column1.gasDayStart", "Column1.children"}),
    Type.children = Table.ExpandListColumn(Type, "Column1.children"),
    Countries = Table.ExpandRecordColumn(Type.children, "Column1.children", {"name", "children"},
    {"Column1.children.name", "Column1.children.children"}),
    Countries.children = Table.ExpandListColumn(Countries, "Column1.children.children"),
    Companies = Table.ExpandRecordColumn(Countries.children, "Column1.children.children", {"name", "children"},
    {"Column1.children.children.name", "Column1.children.children.children"}),
    Companies.children = Table.ExpandListColumn(Companies, "Column1.children.children.children"),
    Facilities = Table.ExpandRecordColumn(Companies.children, "Column1.children.children.children", {"name",
    "code", "type", "updatedAt", "gasInStorage", "injection", "withdrawal", "netWithdrawal", "workingGasVolume",
    "injectionCapacity", "withdrawalCapacity", "contractedCapacity", "availableCapacity", "status", "trend",
    "full"}, {"Column1.children.children.children.name", "Column1.children.children.children.code",
    "Column1.children.children.children.type", "Column1.children.children.children.updatedAt",
    "Column1.children.children.children.gasInStorage", "Column1.children.children.children.injection",
    "Column1.children.children.children.withdrawal", "Column1.children.children.children.netWithdrawal",
    "Column1.children.children.children.workingGasVolume", "Column1.children.children.children.injectionCapacity",
    "Column1.children.children.children.withdrawalCapacity",
    "Column1.children.children.children.contractedCapacity", "Column1.children.children.children.availableCapacity",
    "Column1.children.children.children.status", "Column1.children.children.children.trend",
    "Column1.children.children.children.full"}),
    #"Reordered Columns" = Table.ReorderColumns(Facilities,{"Column1.gasDayStart",
    "Column1.children.children.children.updatedAt", "Column1.name", "Column1.children.name",
    "Column1.children.children.name", "Column1.children.children.children.name",
    "Column1.children.children.children.code", "Column1.children.children.children.type",
    "Column1.children.children.children.status", "Column1.children.children.children.gasInStorage",
    "Column1.children.children.children.injection", "Column1.children.children.children.withdrawal",
    "Column1.children.children.children.netWithdrawal", "Column1.children.children.children.workingGasVolume",
    "Column1.children.children.children.injectionCapacity", "Column1.children.children.children.withdrawalCapacity",
    "Column1.children.children.children.contractedCapacity", "Column1.children.children.children.availableCapacity",
    "Column1.children.children.children.trend", "Column1.children.children.children.full"}),
    #"Filtered" = Table.SelectRows(#"Reordered Columns", each true)
in
    #"Filtered"
```

ALSI

```
let
    Source = Json.Document(Web.Contents("https://alsi.gie.eu/api", [Headers={"x-key"="YOUR_API_KEY"}])),
    #"Converted to Table" = Record.ToTable(Source),
    Value = #"Converted to Table"{4}[Value],
    #"Converted to Table1" = Table.FromList(Value, Splitter.SplitByNothing(), null, null, ExtraValues.Error),
    Type = Table.ExpandRecordColumn(#"Converted to Table1", "Column1", {"name", "gasDayStart", "children"},
    {"Column1.name", "Column1.gasDayStart", "Column1.children"}),
    Type.children = Table.ExpandListColumn(Type, "Column1.children"),
    Countries = Table.ExpandRecordColumn(Type.children, "Column1.children", {"name", "children"},
    {"Column1.children.name", "Column1.children.children"}),
    Countries.children = Table.ExpandListColumn(Countries, "Column1.children.children"),
    Companies = Table.ExpandRecordColumn(Countries.children, "Column1.children.children", {"name", "code",
    "children"}, {"Column1.children.children.name", "Column1.children.children.code",
    "Column1.children.children.children"}),
    Companies.children = Table.ExpandListColumn(Companies, "Column1.children.children.children"),
    Facilities = Table.ExpandRecordColumn(Companies.children, "Column1.children.children.children", {"name",
    "code", "type", "updatedAt", "inventory", "sendOut", "dtmi", "dtrs", "contractedCapacity", "availableCapacity",
    "status"}, {"Column1.children.children.children.name", "Column1.children.children.children.code",
    "Column1.children.children.children.type", "Column1.children.children.children.updatedAt",
    "Column1.children.children.children.inventory", "Column1.children.children.children.sendOut",
    "Column1.children.children.children.dtmi", "Column1.children.children.children.dtrs",
    "Column1.children.children.children.contractedCapacity", "Column1.children.children.children.availableCapacity",
    "Column1.children.children.children.status"}),
    #"Reordered Columns" = Table.ReorderColumns(Facilities,{"Column1.gasDayStart",
    "Column1.children.children.children.updatedAt", "Column1.name", "Column1.children.name",
    "Column1.children.children.name", "Column1.children.children.code", "Column1.children.children.children.name",
    "Column1.children.children.children.code", "Column1.children.children.children.type",
    "Column1.children.children.children.status", "Column1.children.children.inventory",
    "Column1.children.children.children.sendOut", "Column1.children.children.children.dtmi",
    "Column1.children.children.children.dtrs", "Column1.children.children.children.contractedCapacity",
    "Column1.children.children.children.availableCapacity"}),
    Inventory = Table.ExpandRecordColumn(#"Reordered Columns", "Column1.children.children.children.inventory",
    {"lng", "gwh"}, {"Column1.children.children.children.inventory.lng",
    "Column1.children.children.children.inventory.gwh"}),
    DTMI = Table.ExpandRecordColumn(Inventory, "Column1.children.children.children.dtmi", {"lng", "gwh"},
    {"Column1.children.children.children.dtmi.lng", "Column1.children.children.children.dtmi.gwh"}),
    #"Filtered" = Table.SelectRows(DTMI, each true)
in
    #"Filtered"
```

5 – Click on Done and Close & Load and let Excel load all the data. Depending on the request, this can take a short while.



The same query can be used for **Power BI**. We cannot support this much further.

6.6 Illustrative example using a browser

To extract data from the system, you can click on one of these links:

AGSI <https://agsi.gie.eu/api?type=eu>

ALSI <https://alsi.gie.eu/api?type=eu>

IIP <https://iip.gie.eu/api>

Click “Save As” to download the file. You have just downloaded the values from website.

The above URLs are illustrating that an API (Application Program Interface) can be used as nothing more than a Web address. When you enter this web address in your browser, the browser retrieves the data you want, just like it would access a web site. The result can be either viewed within the browser or saved as a file on your computer.

JSON web browser plugins

You can use a JSON formatter browser plugin to see the data call results directly in your browser.

7. REST API Parameters

A REST API enables you to filter the data by adding parameters directly to the Web address, where other systems would require you to go through a series of forms or web pages.

Below are some examples on how these can be used:

7.1 AGSI / ALSI

Parameter	Description	Accepted value(s)
page	Number of the page you want to get the data from. Starts from number 1	positive numeric value
reverse	Reverse the data return	true / false / 0 / 1
size	Amount of data entries per page. Default is 30, max accepted value is 300	positive numeric value
from	Start Gas Day Start date	date
to	End Gas Day Start date	date
start	Unavailability reports only: Start of Unavailabilities	date
end	Unavailability reports only: End of Unavailabilities	date
date	Facility reports only: Specific Gas Day Start date	date
updated	Facility reports only: Filter reports that have been updated on or after this specific date. Can not be combined with another date filter	date
type	Facility reports: Europe, Non-EU or Additional Information data entries Unavailability reports: Unplanned / Planned	EU / NE / AI Unplanned / Planned
end_flag	Unavailability reports only: Filter on end flag type	confirmed / estimate
country	Country code	ex: DE
company	Company EIC code, must be used with the company's country code and country parameter. The unique identification of a company data set is always a combination of a company and country code.	EIC ex: 21X000000001160J
facility	Facility EIC code, must be used with the country and company codes and country/company parameters. The unique identification of a facility data set is always a combination of a company, country and facility code.	EIC ex: 21W000000000081Y

The correct way to use these parameters is by adding them to the URL as query string parameters / URL variables:

Example: /api?country=de&date=2022-03-31

Raw

Parsed

```
{
  "last_page": 1,
  "total": 1,
  "dataset": "",
  "gas_day": "2023-05-28",
  "data": [
    {
      "name": "Germany",
      "code": "DE",
      "url": "DE",
      "gasDayStart": "2022-03-31",
      "gasInStorage": "65.5257",
      "consumption": "905.3031",
      "consumptionFull": "7.24",
      "injection": "565.24",
      "withdrawal": "591.6",
      "netWithdrawal": "26.4",
      "workingGasVolume": "246.9943",
      "injectionCapacity": "4020.33",
      "withdrawalCapacity": "6814.6",
      "coveredCapacity": "-",
      "status": "E",
      "trend": "-0.01",
      "full": "26.53",
      "info": []
    }
  ]
}
```

Example: /api?facility=21Z000000000102A&country=BE&company=21X-BE-A-A0A0A-Y&from=2022-03-06&to=2022-04-04&page=1&size=30

```
▼ {
  "last_page": 1,
  "total": 30,
  "dataset": "<a href=\"/data-overview/eu\">EU</a> > <a href=\"/data-overview/be\">BE</a> > <a href=\"/data-overview/21x-be-a-a0a0a-y/be\">Fluxys</a> > UGS Loenhout",
  "gas_day": "2023-05-28",
  "data": [
    ▼ {
      "name": "UGS Loenhout",
      "code": "21Z000000000102A",
      "url": "21Z000000000102A/BE/21X-BE-A-A0A0A-Y",
      "longitude": "4.706",
      "latitude": "51.3857",
      "gasDayStart": "2022-04-04",
      "gasInStorage": "1.1529",
      "injection": "0.5",
      "withdrawal": "0",
      "netWithdrawal": "-0.5",
      "workingGasVolume": "8.701",
      "injectionCapacity": "88.14",
      "withdrawalCapacity": "169.66",
      "contractedCapacity": "-",
      "availableCapacity": "-",
      "status": "C",
      "trend": "0.01",
      "full": "13.25",
      "info": []
    },
    ▼ {
      "name": "UGS Loenhout",
      "code": "21Z000000000102A",
      "url": "21Z000000000102A/BE/21X-BE-A-A0A0A-Y",
      "longitude": "4.706",
      "latitude": "51.3857",
      "gasDayStart": "2022-04-03",
      "gasInStorage": "1.1524",
      "injection": "4.37",
      "withdrawal": "0",
      "netWithdrawal": "-4.4",
      "workingGasVolume": "8.701",
      "injectionCapacity": "88.14",
      "withdrawalCapacity": "169.66",
      "contractedCapacity": "-",
      "availableCapacity": "-",
      "status": "C",
      "trend": "0.05",
      "full": "13.24",
      "info": []
    }
  ]
}
```

Omitting the 'from' and 'to' parameters will get results from the start of reporting entries until the current GasDayStart.

Note:

- To get data from **EU/NE/AI**, you use the '**type**' parameter;
/api?type=eu&date=2022-03-31
- To get data from a **country**, you use the '**country**' parameter;
/api?country=de&date=2022-03-31
- To get data from a **company**, you need to use both the '**country**' and '**company**' parameter
/api?country=de&company=21X000000001160J&date=2022-03-31
- To get data from a **facility**, you need to use the '**country**', '**company**' and '**facility**' parameters
/api?country=de&company=21X000000001160J&facility=21Z000000000271O&date=2022-03-31

7.2 IIP

Parameter	Description	Accepted value(s)
page	Number of the page you want to get the data from. Starts from number 1	positive numeric value
size	Amount of data entries per page. Default is 300, max accepted value is 300	positive numeric value
from	UMM from (start) date	date
to	UMM to (end) date	date
published	Filter on published date. Can be partial (ex: 2025-02-25, 2025-02, 2025)	date
message	Filter on messageId, eventType, reportType or unavailabilityType	24102421X000000001120V071 see below ³ gas / other planned / unplanned
message_reportType	Filter on message reportType	gas / other
reportingEntity	Filter based on (partial) name or EIC of the reporting entity	string or EIC
reportingEntityType	Filter on reporting entity type	SSO / LSO / TSO
marketParticipant	Filter based on (partial) name or EIC of the market participant	string or EIC
balancingZone	Filter based on (partial) name or code of the balancing zone	string or code
status	Must use the specific status to filter	active / inactive / dismissed
duration	Duration of the event in readable format, can be partial	readable time ex: 3 weeks, 3, weeks, week
asset	Filter based on (partial) name or EIC of the asset	string or EIC
direction	Filter on direction	entry / exit

³ eventType: Offshore pipeline unavailability, Transmission system unavailability, Storage unavailability, Storage facility unavailability, Injection unavailability, Withdrawal unavailability, Gas treatment plant unavailability, Regasification plant unavailability, Compressor station unavailability, Gas production field unavailability, Import contract curtailment, Consumption unavailability, Other unavailability

The correct way to use these parameters is by adding them to the URL as query string parameters / URL variables:

Example: /api?status=active

```
{
  "last_page": 7,
  "total": 300,
  "data": [
    {
      "submitted": "2025-02-19 14:17:41",
      "reportingEntity": {
        "name": "TAQA Gas Storage B.V.",
        "code": "21X00000001120V",
        "type": "SSO"
      },
      "reportingEntityString": "TAQA Gas Storage B.V. 21X00000001120V SSO",
      "message": {
        "messageId": "25021921X00000001120V011_001",
        "messageType": "Compressor station unavailability",
        "reportType": "Gas",
        "unavailabilityType": "Planned"
      },
      "messageString": "25021921X00000001120V011_001 Compressor station unavailability Gas Planned",
      "status": "Active",
      "from": "2026-03-30 04:00:00",
      "to": "2026-04-02 04:00:00",
      "duration": "3 days",
      "marketParticipant": [
        {
          "code": "21X00000001120V",
          "name": "TAQA Gas Storage B.V."
        }
      ],
      "marketParticipantString": "21X00000001120V TAQA Gas Storage B.V.",
      "asset": {
        "name": "UGS Bergermeer",
        "code": "21W000000000087"
      },
      "assetString": "UGS Bergermeer 21W000000000087",
      "direction": "Entry",
      "unavailable": {
        "capacity": "74.400000000",
        "unit": "GWh/d"
      },
      "available": {
        "capacity": "472.800000000",
        "unit": "GWh/d"
      }
    }
  ]
}
```

Example: /api?published=2024-10&balancingZone=dutch&duration=days&direction=entry

```
{
  "last_page": 1,
  "total": 3,
  "data": [
    {
      "submitted": "2024-10-10 12:04:58",
      "reportingEntity": {
        "name": "TAQA Gas Storage B.V.",
        "code": "21X00000001120V",
        "type": "SSO"
      },
      "reportingEntityString": "TAQA Gas Storage B.V. 21X00000001120V SSO",
      "message": {
        "messageId": "24101021X00000001120V111_000",
        "messageType": "Compressor station unavailability",
        "reportType": "Gas",
        "unavailabilityType": "Planned"
      },
      "messageString": "24101021X00000001120V111_000 Compressor station unavailability Gas Planned",
      "status": "Active",
      "from": "2024-10-27 05:00:00",
      "to": "2024-11-04 05:00:00",
      "duration": "8 days",
      "marketParticipant": [
        {
          "code": "21X00000001120V",
          "name": "TAQA Gas Storage B.V."
        }
      ],
      "marketParticipantString": "21X00000001120V TAQA Gas Storage B.V.",
      "asset": {
        "name": "UGS Bergermeer",

```

7.3 Pagination

A lot of the time, when making calls to the API, there'll be a lot of results to return. For that reason, we paginate the results to make sure responses are easier to handle. Therefore, each API call returns an 'last_page' parameter so your program will know how long to loop over the results to get all the data. There is a default limit on results (30 per page), but we recommend you always explicitly set the 'size' parameter to ensure you know how many results per page you'll get. Of course, the number of records on the last page can vary. Do note that the 'size' is capped at 300.

```
{
  last_page: 159,
  total: 30,
  dataset: "EU",
  gas_day: "2022-04-19",
  - data: [
    - {
      name: "EU",
      code: "eu",
      url: "eu",
      gasDayStart: "2022-04-19",
      gasInStorage: "326.9226".
    }
  ]
}
```

As you can see in the example above (API call: <https://agsi.gie.eu/api?continent=EU&page=1&size=30>), there are 159 pages to loop over. Increasing the size, will decrease the number of pages:

```
{
  last_page: 16,
  total: 300,
  dataset: "EU",
  gas_day: "2022-04-19",
  - data: [
    - {
      name: "EU",
      code: "eu",
      url: "eu",
      gasDayStart: "2022-04-19",
      gasInStorage: "326.9226".
    }
  ]
}
```

7.4 Rate limiting

To ensure data quality and timely access to our API and website, we enabled rate limiting on API calls. Rate limiting is used for limiting network traffic as it puts a cap on how often someone can repeat an action within a certain timeframe and can help stop certain kinds of malicious bot activity.

Any API account that exceeds 60 API calls per minute will automatically be put in a waiting queue and get a 'too many requests' error message for a duration of 60 seconds, each time. We will also monitor the accounts in this queue and if data calls are not adjusted properly and timely, we will affect a permanent ban on these accounts, by placing these accounts on our blacklist as 'DDOS attack' users.

These measures are intended and required to assure operational reliability and an effective and performant system to our complete userbase. Calling the API excessively is pointless as our AGSI and ALSI transparency platforms only process and publish new data ONCE a day at 19:30 publication time.

As each pull of a new page is considered a new API call, consider building in a delay of data pulling should your system go over the 60 calls per minute threshold.

The rate limiting is based on tracking the IP addresses that requests are coming from and tracking how much time elapses between each request. It measures the amount of time between each request from each IP address and the number of requests within a specified timeframe. If there are too many requests from a single IP within the given timeframe, the rate limiting solution will not fulfill the IP address's requests for the next 60 seconds.

8. Testing

A separate testing environment is available.

Testing can be done on <https://agsitest.gie.eu> / <https://alsitest.gie.eu> / <https://iipitest.gie.eu>

The workings are the same as on the production websites; accounts are linked to our test database but the data visible is the same data as on production. To call the test API, use the following API link;

<https://agsitest.gie.eu/api>

<https://alsitest.gie.eu/api>

<https://iipitest.gie.eu/api>

Bugs or remarks found on the test platform can be sent to api@gie.eu

9. FAQ

- **Can you help with our requests in jQuery/PHP/cURL/Python/Excel/PowerBI...?**

We can not support programming related questions, but we'll always try to help to the best of our abilities.

- **The displayed data is incorrect, can you fix it**

We do not alter data send in by the SSO/LSO. Unless it is a programmatic related error (double counts for instance), we can only relay the issue back to the SSO/LSO in question and wait for them to update their data.

10. Document versions

V001

March 2018 – First release

V002

September 2018 – Removal of completeness data field as it is considered obsolete by GIE.

V003

October 2018 – Change of API URLs to accommodate facilities with duplicate EIC codes, belonging to different companies in the same country.

V004

October 2019 – Addition of Excel tutorial and small document changes; chapters, repositioning text blocks

V005

April 2022 – V2 of the API for AGSI only. New API calls for AGSI, ALSI will be changed soon as well. Missing chapters will be added soon, please use V4 for these.

V006

April 2022 – V2 further explained with working example code for Excel. Added FAQ

V007

October 2022 – V2 applied to ALSI. Added more parameters for filtering

V008

February 2023 – Capacity fields, extra company information links

V009

December 2023 – ALSI inventory and Technical Capacity / dtmi changed to array. Version 10 will be released in February 2024 as the array fields will replace the original ones.

Covered capacity and unavailabilities added to ALSI.

News items now include an entities array to which the news item pertains.

Unavailabilities country, company and facility fields are now arrays with name and code/eic.

All data records (facility reports) now include the latest updated timestamp.

V010

January 2024 – ALSI inventory and Technical Capacity / dtmi changed to array and replacing the original string fields.

All data records (facility reports) are filterable using the latest updated timestamp.

V011

February 2024 – PowerQuery / Excel example code for tree view front pages AGSI / ALSI.

V012

January 2025 – API about & covered capacity changes. Adding descriptions to EIC listing for ES*, GB & GB*

V013

March 2025 – Added all information for the IIP API

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