



ACER



European Union Agency for the Cooperation
of Energy Regulators

User Manual:

Gas balancing monitoring dashboard

Automated calculation and visualisation of
selected indicators of the ACER gas balancing
analytical framework

ACER team – Gas Market and Energy Retail

Balancing Analytical Framework

Selected indicators included in the dashboard*



- **TSO ACTIONS – comparison of balancing zones**
 1. Total balancing action quantities as a share of market volume
 2. Split between buy & sell balancing volumes
 3. Average buy-sell prices of TSO balancing actions
 4. Number of days when balancing actions took place



- **TSO ACTIONS – individual balancing zone details**
 1. Volume of TSO balancing transaction
 2. TSO transaction volume as a share of market volumes
 3. Average price of TSO balancing transaction
 4. Number of days with TSO balancing transaction

1. Total balancing action quantities as a share of market volume (%):

- ✓ Total quantity of gas purchased or sold via TSO balancing actions disaggregated for all merit order transactions, computed as a share of the market volume.

2. Split between buy & sell balancing volumes (%):

- ✓ Given the TSOs total balancing actions volumes, the indicator splits the buys and sells volumes as a complementary shares of the total.

3. Average buy-sell prices of TSO balancing actions (EUR/MWh):

- ✓ The indicator computes the difference between the average buy and average sell prices of TSO balancing actions.

4. Number of days when balancing action took place (days):

- ✓ The indicator presents the total number of days in which TSOs balancing actions take place during a gas year.

1. Volume of TSO balancing transactions (MWh):

- ✓ Summarized and detailed view of the volumes of TSO balancing action, divided between buy and sell.

2. TSO transaction volumes as a share of market volumes (MWh):

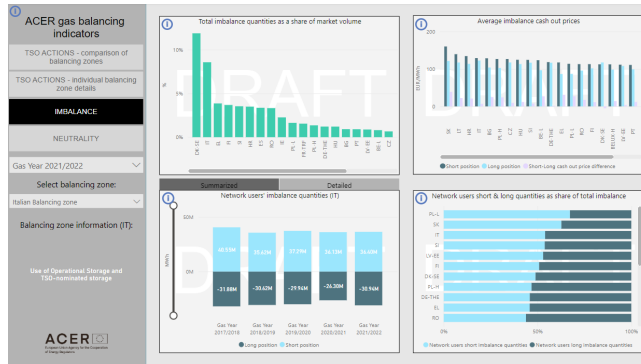
- ✓ The indicator provides the split between buy and sell transaction volumes as a share of market volumes.

3. Average price of TSO balancing transaction (EUR/MWh):

- ✓ Summarized and detailed view of the prices of TSO balancing action, divided between buy and sell.

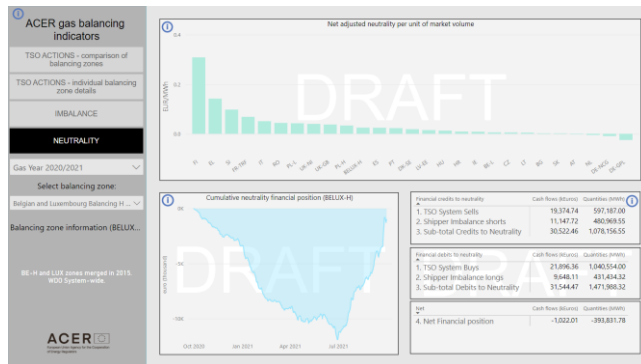
4. Number of days with TSO balancing transactions (days):

- ✓ The indicator presents the total number of days in which TSOs balancing actions take place during a gas year. Disaggregation between only buy, only sell, and both buy & sell.



• IMBALANCE

1. Total imbalance quantities as a share of market volume
2. Network users' imbalance quantities
3. Average imbalance cash-out prices
4. Network users' short and long quantities as a share of total imbalance



• NEUTRALITY

1. Net adjusted neutrality per unit of market volume
2. Cumulative neutrality financial position
3. Cash Flow-Quantities to Neutrality
 - Financial credits to neutrality
 - Financial debits to neutrality
 - Net Financial position

1. Total imbalance quantities as a share of market volume (%):

- ✓ The indicator presents the sum of total quantities of network users' imbalance long and short positions as a share of market volume.

2. Network users' imbalance quantities (MWh):

- ✓ Summarized and detailed view of the volumes of network users' imbalance quantities, divided between long and short positions.

3. Average imbalance cash out prices (EUR/MWh):

- ✓ The indicator describes the average Network Users' imbalance cash out short and long positions prices, computing the difference between the short-long cash out average prices.

4. Network users' short and long quantities as a share of total imbalance (%):

- ✓ Given the network users' total imbalance cash out quantities, the indicator describes the buys volumes as a share of the total.

1. Net adjusted neutrality per unit of market volume (EUR/MWh)

- ✓ It indicates how much overall the balancing activity impacts on gas prices.

2. Cumulative neutrality financial position (thousand Euro)

- ✓ It indicates the daily cumulative neutrality position over the analysis period generated by the TSO and the network users' balancing activity.

3. Financial credits to neutrality

- ✓ Describes the TSO/system sells and network users' imbalance short positions, cash flows and quantities, computing the sub-totals.

4. Financial debits to neutrality

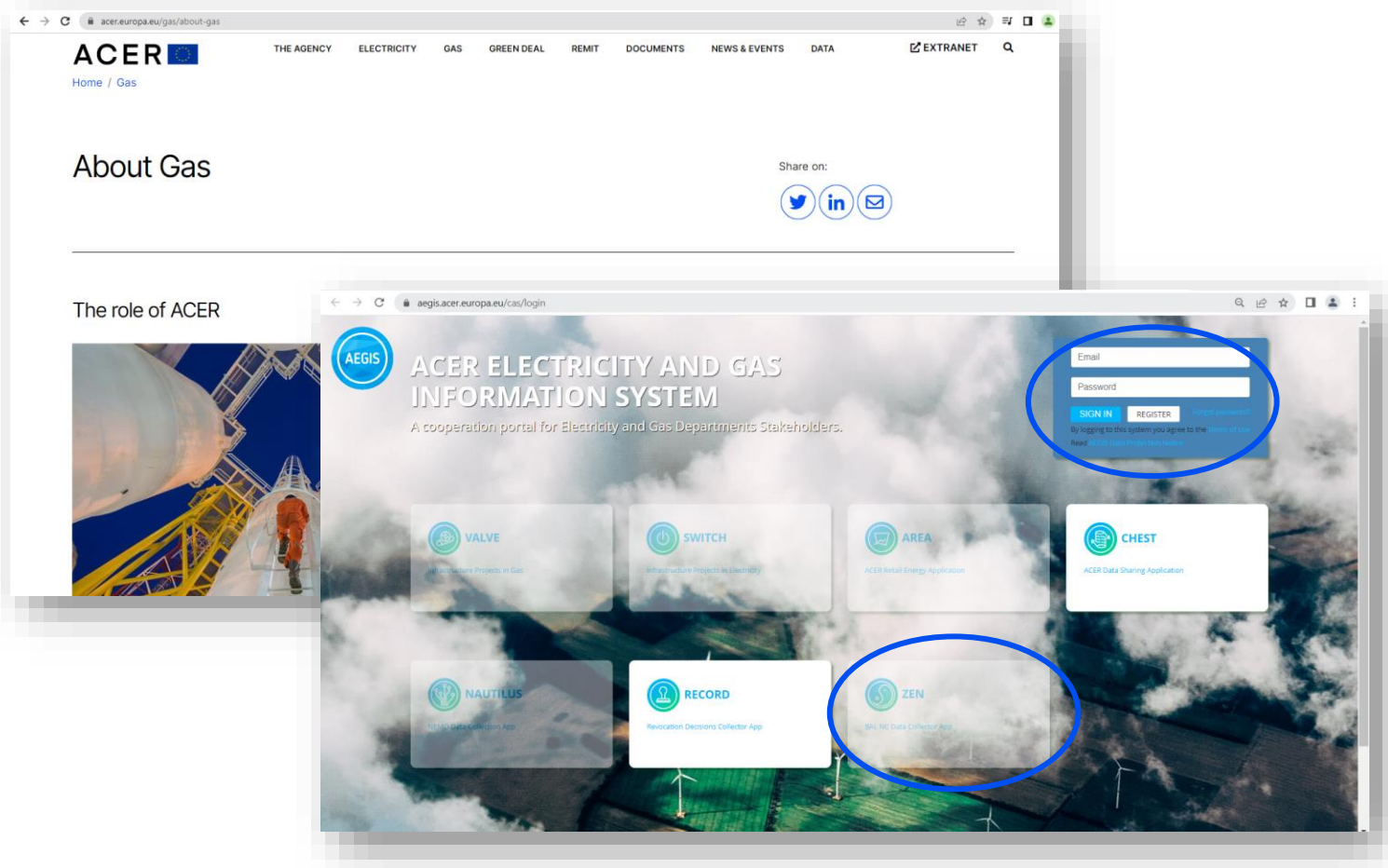
- ✓ Describes the TSO/system buys and network users' imbalance long positions, cash flows and quantities, computing the sub-totals.

5. Net Financial position

- ✓ Represents the net sum of cash flows and quantities given by financial credits to neutrality and financial debits to neutrality.

Inside the dashboard

How to access the dashboard



- **ACER webpage:**
<https://www.acer.europa.eu/media/charts/acer-gas-balancing-dashboard>

or

- **AEGIS webpage:**
<https://aegis.acer.europa.eu/cas/login>

TSO ACTIONS – comparison of balancing zones

Navigate to different sections of the dashboard

Select gas year

Change balancing zone

Balancing zone description

ACER gas balancing indicators

TSO ACTIONS - comparison of balancing zones

TSO ACTIONS - individual balancing zone details

IMBALANCE


NEUTRALITY

Gas Year 2021/2022

Select balancing zone:
Belgian and Luxembourg Balancing H ...

Balancing zone information (BELUX...)

BE-H and LUX zones merged in 2015. WDO System-wide.

ACER 
European Union Agency for the Cooperation of Energy Regulators

Summarized | Detailed

Total balancing action quantities as a share of market volume



Average buy-sell prices of TSO balancing actions



Split between TSO buy & sell balancing volumes



Number of days when balancing actions took place



Indicator's Name

Legend

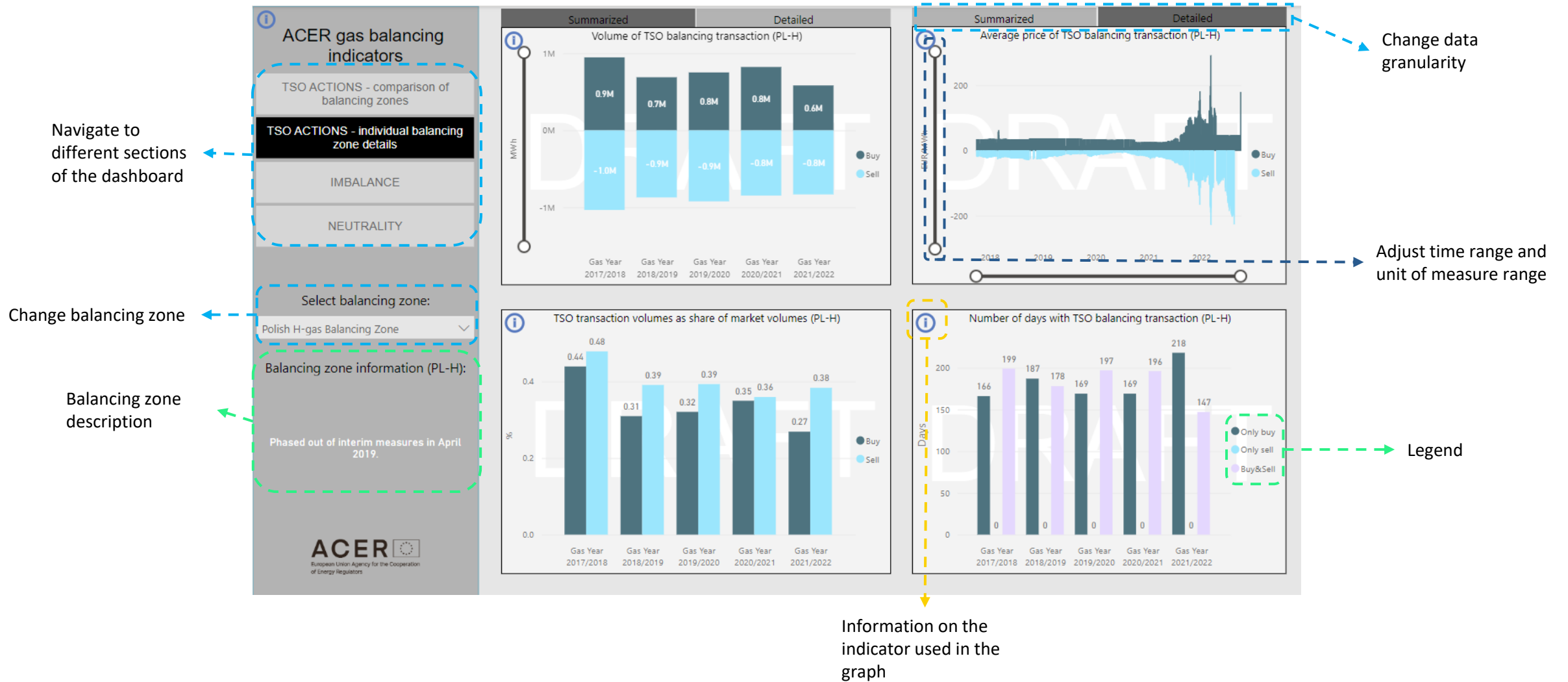
Scroll to different countries

Selection Pane

Information on the indicator used in the graph

Scroll to different countries

TSO ACTIONS – individual balancing zone details



ACER gas balancing indicators

TSO ACTIONS - comparison of balancing zones

TSO ACTIONS - individual balancing zone details

IMBALANCE

NEUTRALITY

Gas Year 2021/2022

Select balancing zone:
Italian Balancing zone

Balancing zone information (IT):
Use of Operational Storage and TSO-nominated storage

ACER
European Union Agency for the Cooperation of Energy Regulators

Total imbalance quantities as a share of market volume

Summarized Detailed

Network users' imbalance quantities (IT)

Gas Year	Long position (MWh)	Short position (MWh)
2017/2018	-31.88M	40.55M
2018/2019	-30.62M	35.62M
2019/2020	-29.94M	37.29M
2020/2021	-26.30M	34.13M
2021/2022	-30.94M	36.40M

Average imbalance cash out prices

Short position Long position Short-Long cash out price difference

Scroll to different countries

Network users short & long quantities as share of total imbalance

Network users short imbalance quantities Network users long imbalance quantities

Scroll to different countries

Navigate to different sections of the dashboard

Select gas year

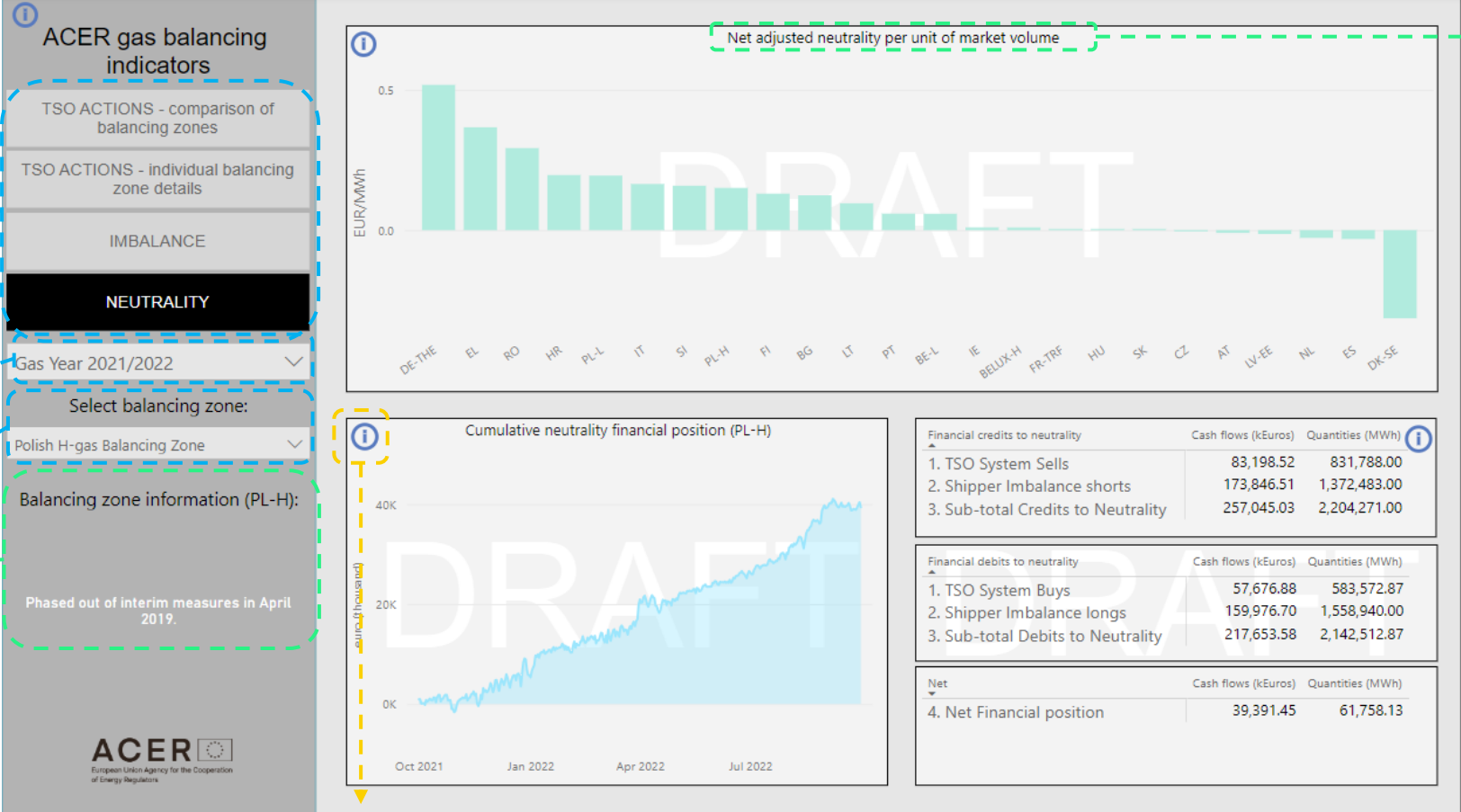
Change balancing zone

Balancing zone description

Adjust time range and unit of measure range

Information on the indicator used in the graph

Change data granularity



ACER gas balancing indicators

- TSO ACTIONS - comparison of balancing zones
- TSO ACTIONS - individual balancing zone details
- IMBALANCE
- NEUTRALITY**
- Gas Year 2021/2022
- Select balancing zone: Polish H-gas Balancing Zone
- Balancing zone information (PL-H): Phased out of interim measures in April 2019.

Net adjusted neutrality per unit of market volume (Indicator's Name)

EUR/MWh

DE-THE EL RO HR PL-L IT SI PL-H FI BG LT PT BE-L IE BELUX-H FR-TRF HU SK CZ AT LV-EE NL ES DK-SE

Cumulative neutrality financial position (PL-H)

eur (thousands)

Oct 2021 Jan 2022 Apr 2022 Jul 2022

Financial credits to neutrality		Cash flows (kEuros)	Quantities (MWh)
1. TSO System Sells		83,198.52	831,788.00
2. Shipper Imbalance shorts		173,846.51	1,372,483.00
3. Sub-total Credits to Neutrality		257,045.03	2,204,271.00

Financial debits to neutrality		Cash flows (kEuros)	Quantities (MWh)
1. TSO System Buys		57,676.88	583,572.87
2. Shipper Imbalance longs		159,976.70	1,558,940.00
3. Sub-total Debits to Neutrality		217,653.58	2,142,512.87

Net		Cash flows (kEuros)	Quantities (MWh)
4. Net Financial position		39,391.45	61,758.13

Annotations:

- Navigate to different sections of the dashboard
- Select gas year
- Change balancing zone
- Balancing zone description
- Click to have information on the indicator used in the graph

Thank you.

The contents of this document do not necessarily reflect the position or opinion of the Agency.



European Union Agency for the Cooperation
of Energy Regulators

✉ info@acer.europa.eu
🖱 acer.europa.eu

🐦 [@eu_acer](https://twitter.com/eu_acer)
🌐 [linkedin.com/company/EU-ACER/](https://www.linkedin.com/company/EU-ACER/)