

ACER



Agency for the Cooperation  
of Energy Regulators



## **GAS BALANCING IMPLEMENTATION**

Balancing systems performance and design,  
including information provision

*Network Codes Team, Gas Department*

*All results shown are provisional and may be reviewed before the publication of the ACER Balancing Implementation Report (2018).*

*The views expressed belong to the authors and do not represent the official view of the Agency, except for those that have been published already by the Agency.*

# The Agency's assessment of Balancing Code implementation

## THE FIRST (2016) REPORT,

- Reviewed 24 covered a wide range of critical design elements of balancing implementation
- Proposed to monitor the progress in each country and called for improved knowledge sharing and dialogue across EU.

## THE SECOND (2017) REPORT,

- the Agency developed a ***Balancing Analytical Framework (BAF)*** to measure regime performance - given the local circumstances.
- **enhanced the qualitative assessment review for 26 EU balancing zones.**

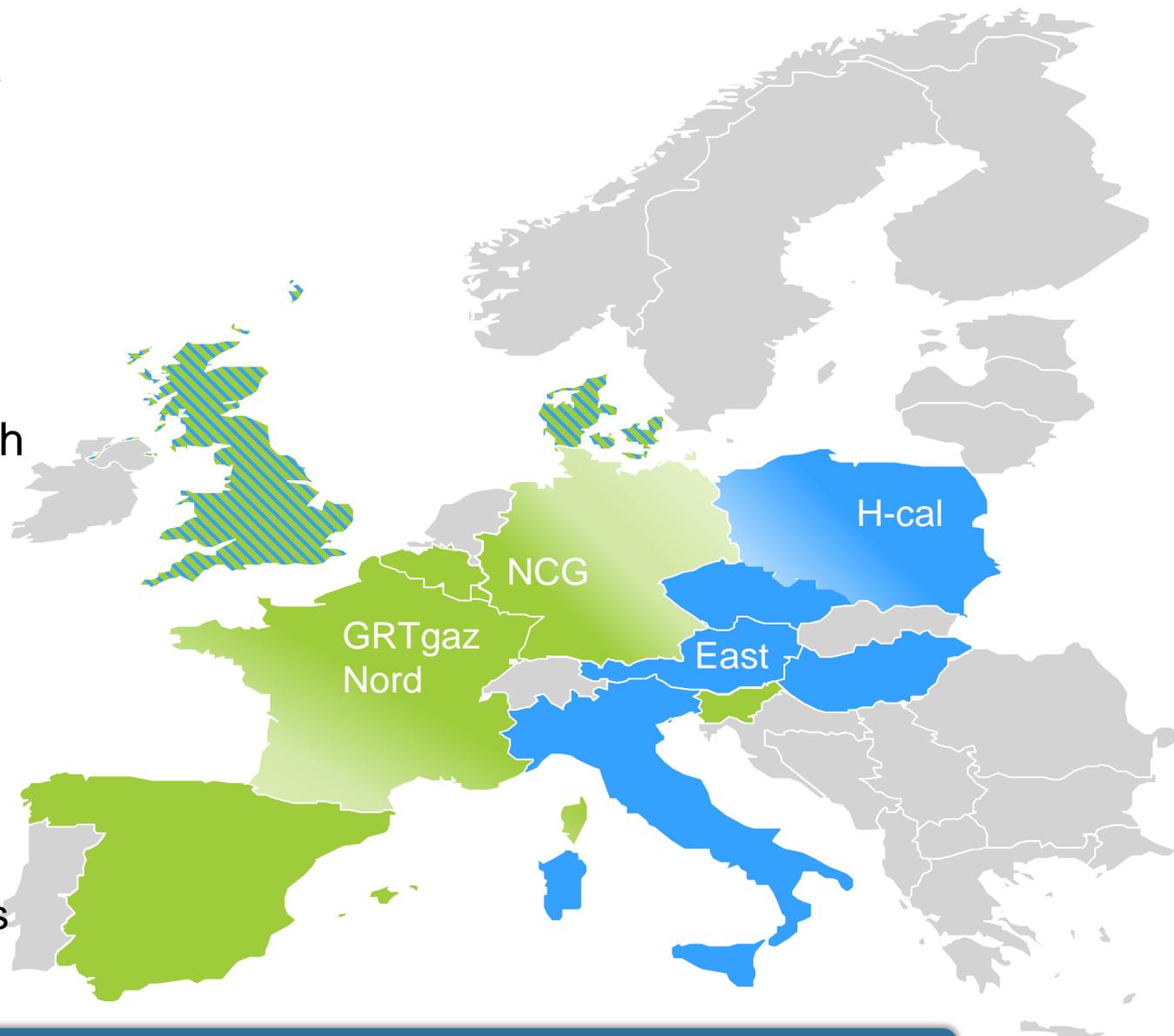
## THE UPCOMING THIRD (2018) REPORT,

- **Extension** of the second Report to 5 balancing zones
- Testing further the ***analytical framework***, with regimes applying special features like tolerances and linepack service.

**The Agency is keen to support the meaningful implementation of the NC.**

Using data **GY 15/16** & **GY 16/17**. **2** reports covered 12 balancing zones:

- **NWE and S GRI**
- **SSE GRI**
- **DK & UK-GB** (in both reports)
- 2 transitory regimes;
- 3 Within-day regimes (WDOs);
- 2 zones with Linepack flexibility;
- 1 zone with tolerances
- 2 zones with incentives

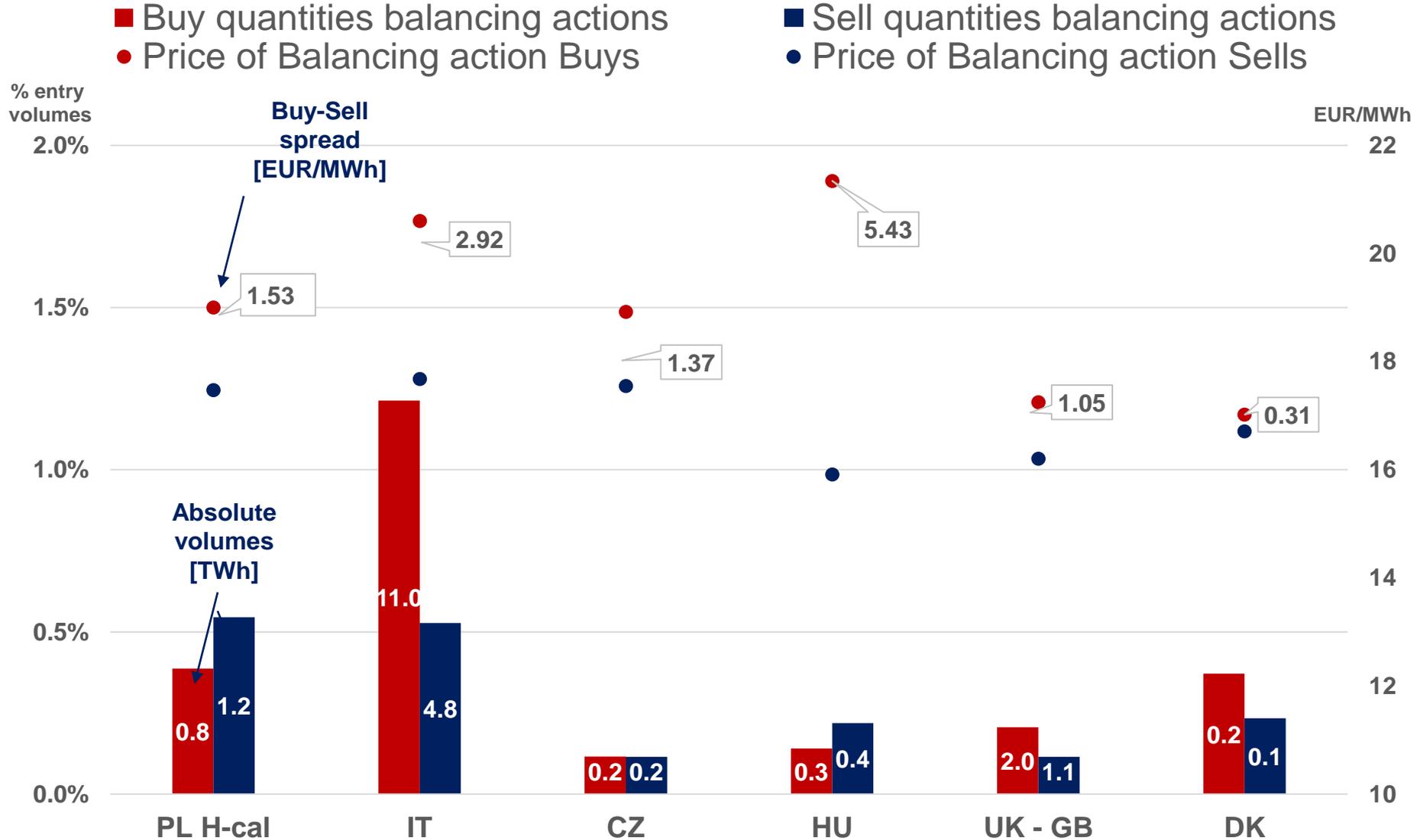


## A quantitative analytical framework is essential.

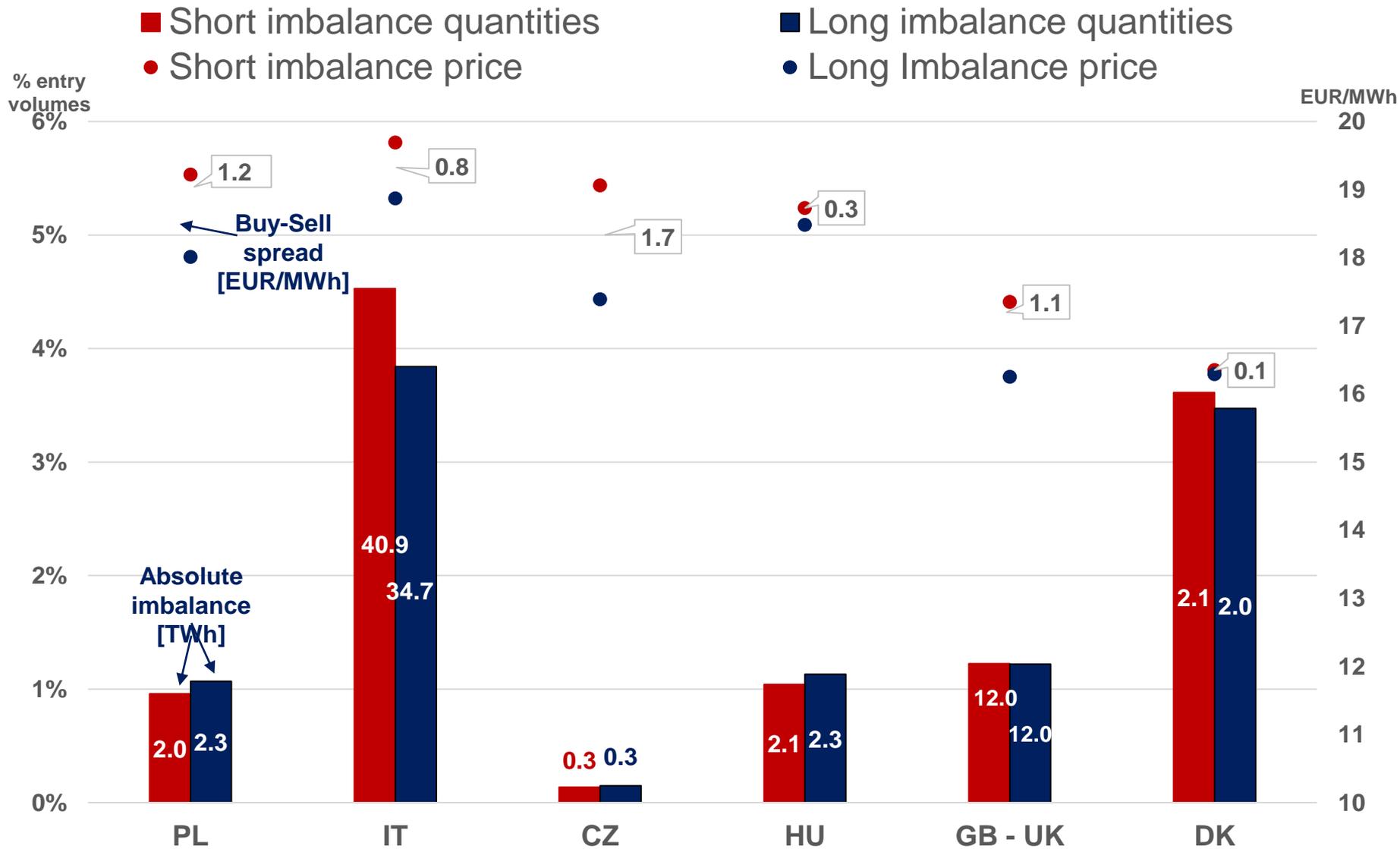
- » The Agency's BAF measures balancing market functioning by reviewing:
  - TSO's balancing activity (balancing actions volumes and prices) – is it residual?
  - NUs' balancing activity (imbalance volumes and prices) – how does it evolve?
  - And their combined effects on the system (neutrality – both TSO and NUs)

The BAF allows to make basic conclusions on how the key balancing design elements work. Preliminary findings:

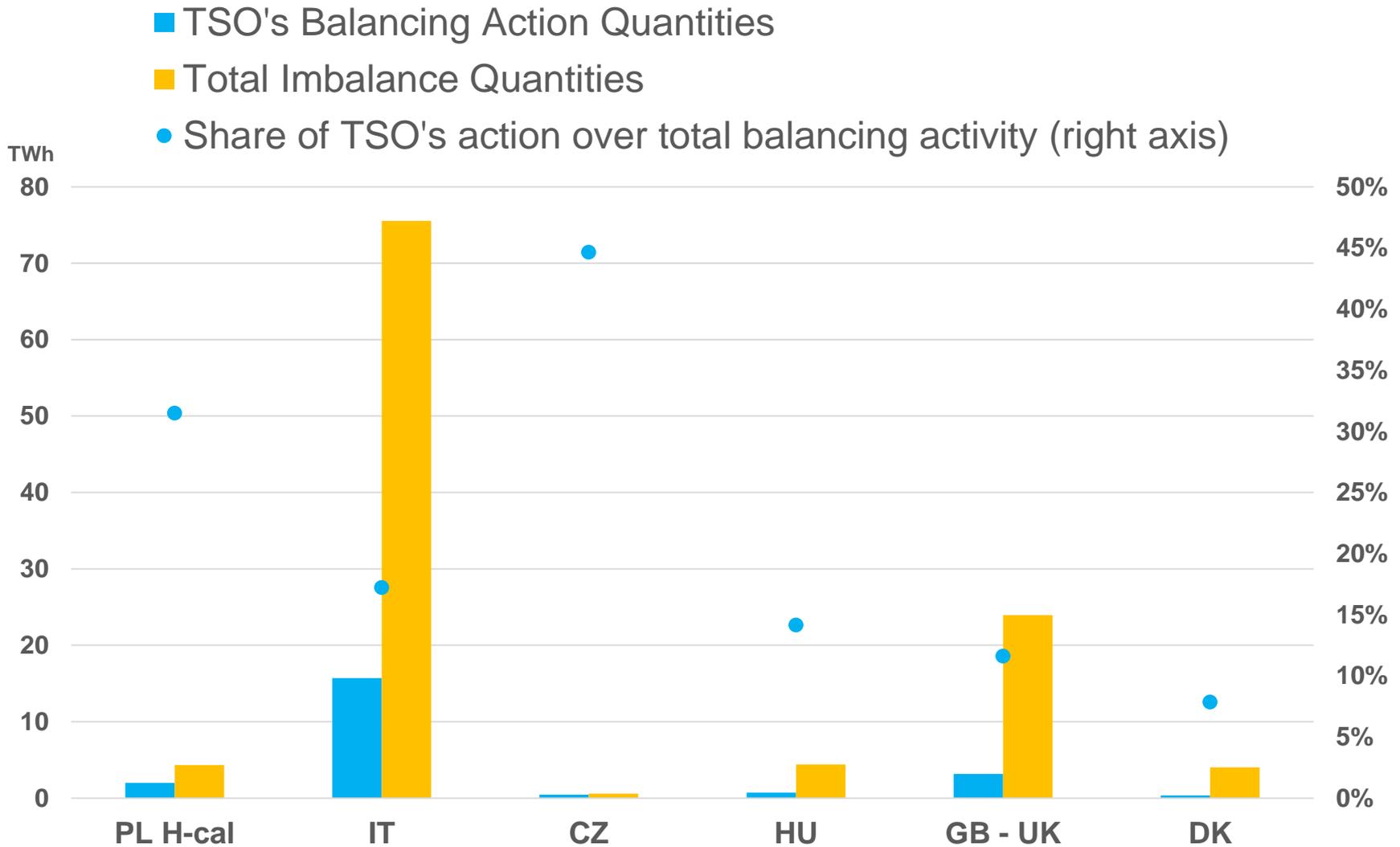
- » TSO residual role varies across countries;
- » Relief from tolerances and LFS could be considered to provide adequate incentives for NU balancing; NDM forecast accuracy has an impact on NU balancing activity;
- » Small adjustment to be sufficient, but not excessive;
- » Neutrality per unit of market volume is low and comparable across selected zones.



- » Residual (< **0.5%** of entry volumes) activity in relative terms for all zones
  - **IT** is the exception (> **1.5%**)
  
- » Relative asymmetry of TSOs' balancing actions quantity (Buy nearly **doubles** Sell) for **UK, DK, IT**
  - The opposite for **HU**
  
- » Average price spreads are limited (< **2 EUR/MWh**)
  - except **HU** (> **5 EUR/MWh**)
  - and **IT** (> **2.5 EUR/MWh**)

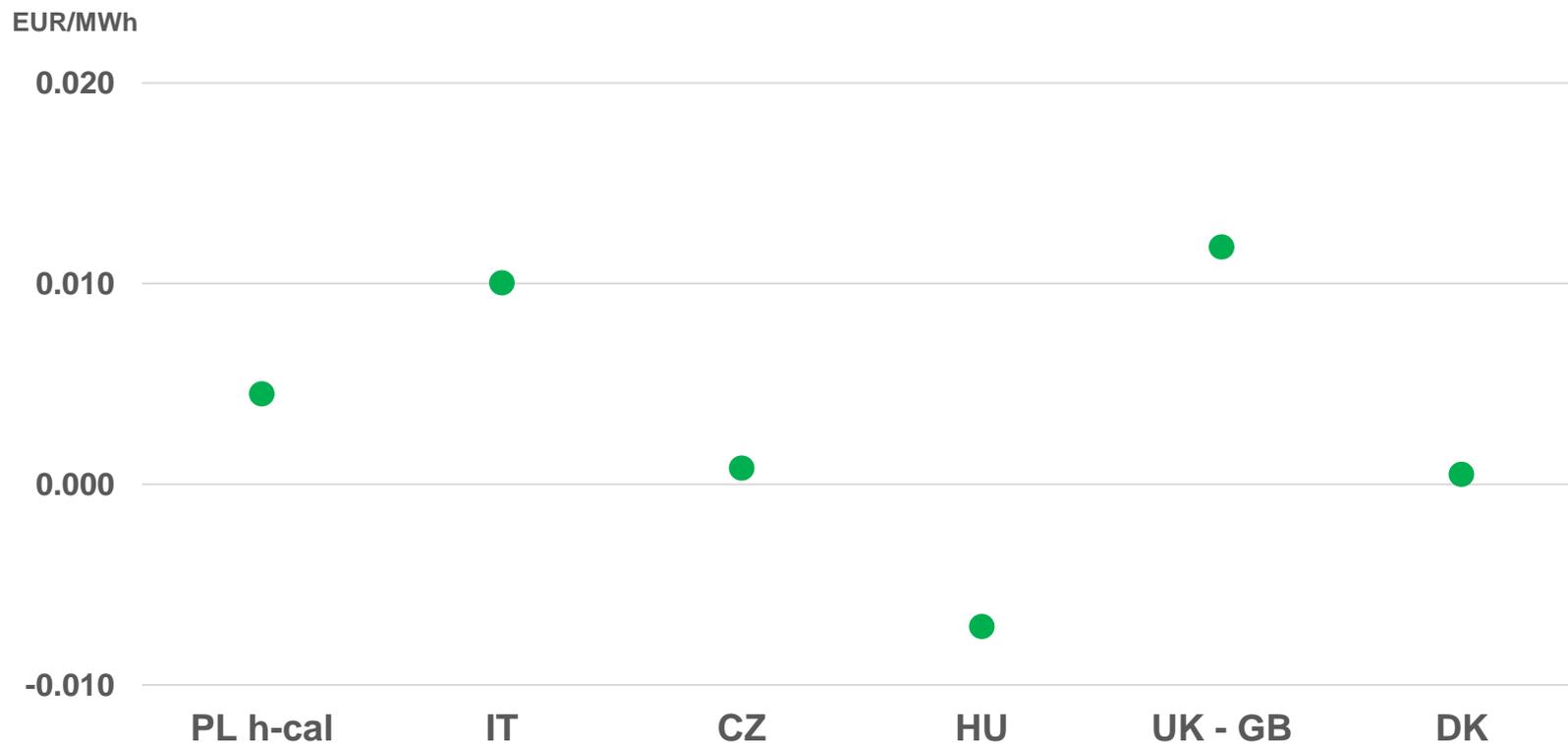


- » Low imbalances in **PL, HU, GB** (<2% of entry volumes)
  - **PL: 28%** of imbalances within tolerances, shielded from marginal prices (sell: **15.8 EUR/MWh**, buy **20.9 EUR/MWh**)
- » Very low in **CZ** (<0.5%), yet
  - Linepack flexibility service and
  - Unused flexibility marketshield additional imbalances accounting for **3.4%** of entry volumes
- » Higher levels in **IT** (>8%) and **DK** (>7%)
  - Possible reasons: information provision on NDM, not counterbalanced by other design elements?
- » Rather symmetric imbalances, with seasonality



## The combined effect of NUs and TSOs' activity can be caught by the neutrality indicator

Net adjusted financial neutrality per unit of market volume (EUR/MWh, GY 6/17)



# Information Provision

## » **Base case**

- NDM info is min 1 DA + 2 WD forecasts
  - First update before 1 pm (W), 12 (S) UTC on the Gas Day.
  - Second update depends on access to STSPs, accuracy of NDM forecast, renomination window, first update

## » **Variant 1:**

- Info on NDM and DM offtakes is based on apportionment of measured flows during the Gas Day
  - For NDM, based on min 2 WD updates
  - Initial allocation/imbalance quantity considered as final.

## » **Variant 2:**

- NDM info is min 1 DA forecast

Irrespective of the selected model, the NRA appoints a forecasting party - TSO, DSO, or third party.  
The NC also requires TSOs, DSOs and forecasting parties to provide information.

- **Art. 38:** *within 2 years* from entry into force of the NC, TSOs have to produce a cost-benefit analysis (**to be consulted**) on:
  - » Increasing frequency
  - » Reducing timeline
  - » Improving accuracyof the information provided to NUs, with **breakdown among affected parties**.

NRAs may decide to improve information provision, based on the results.

- **Art. 42(3):** Forecasting party to publish, every 2 years (at least), report on the accuracy of the NDM forecast.
  - » May serve as an input to the CBA

- ...aims at adequately attributing imbalances to network users.
  - » **May create system-wide benefits**
    - NUs confidence to act in the market may increase => NUs more balanced on average/ TSOs more residual;
    - Level playing field for new NUs.
  - » **May create different impact on different parties**
    - With better forecast, NUs' imbalances may improve (depending on their portfolio).
    - Tolerances or others tools shielding from imbalances could be reduced.
  - » **Has cost that may be shared among all NUs**
    - spread to all (via tariffs, if approved).

**Thank you for your attention!**



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