

How are energy certificates traded? HUPX GO Market Overview

Nikolett Dancsné-Ilyés
HUPX

How are energy certificates traded?

Valuing
consumer
action

HUPX GO Market Overview



Nikolett Dancsné Ilyés
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EU Focus

AIB members belongs to EECS

Exchanges for the supported GOs:

- Austria, Croatia, Czechia, France, Hungary, Italy, Luxembourg, Slovakia

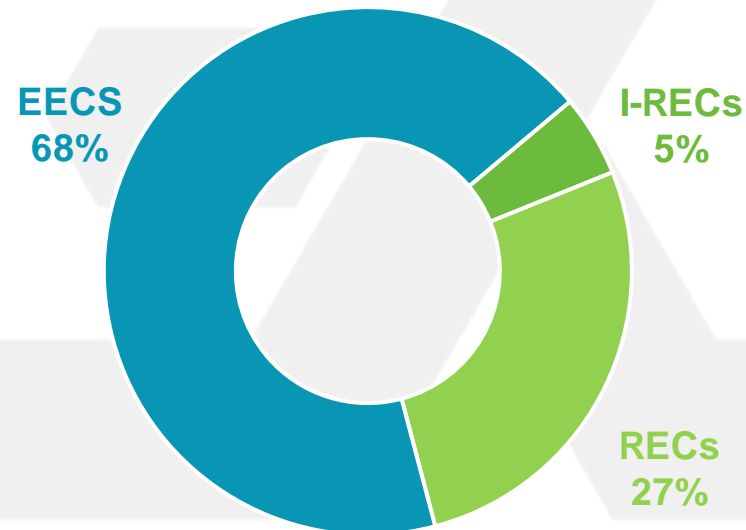
Pan-European GO Exchanges:

- EPEX (FR)
- HUPX (HU)
- TGE (PL)

List of trading options:

- Exchanges
- Marketplace
- Billateral

Energy Certificate Systems global share



EECS - European Energy Certificate System

I-RECs - International Renewable Energy Certificates

RECS - RECS Energy Certificate Association

Main principles of an exchange

Standardized products #attributes

Transparency #referenceprice

Anonymity #trading #transfer

Low entry barrier #selfclearing

Non-discriminatory #blackboxauction

Guaranteed delivery #physical #financial

Bilateral contracts (OTC)

Flexible contract parameters
over standardized products

Non-regulated environment
exchanges are highly regulated

Only 2 stakeholders
usually exchanges serves with many

Market results

6 781

GWh

Total GOs
traded

0,63

EUR/MWh

Latest HUPX
AIB index



Available technologies:

Biogas, Biomass, Geothermal, Hydro, Landfill gas, Solar, Waste, Wind and any **other EECS compliant**



Who can sell or buy?

Anyone having GO Registry Account via MEKH (Hungary) or via other AIB Member



powered by
h u p x

MEMBERS: 63

Nr. of new members in 2023: 27

Nr. of auctions in 2023: 12



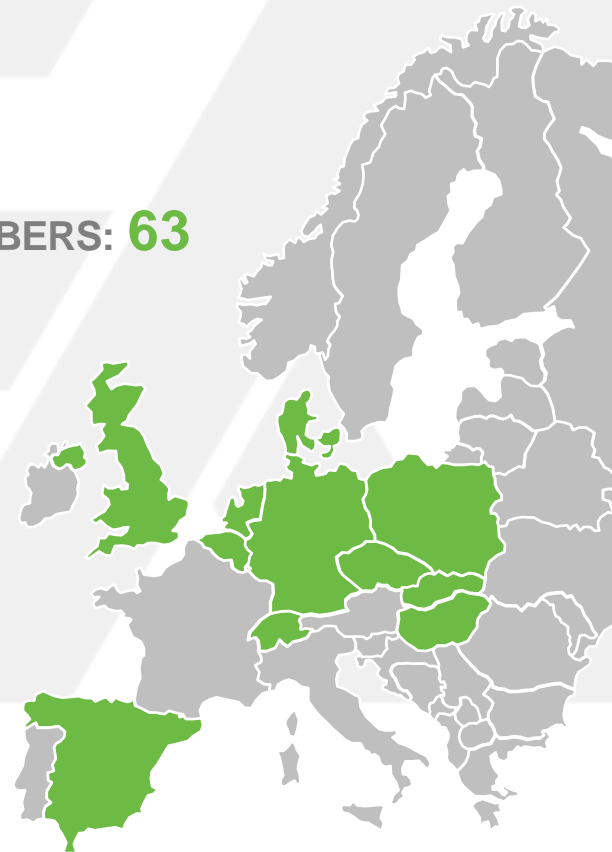
Preference handling via:

1. Technology
2. Production month
3. Commission year
4. Country
5. Support type



Available countries:

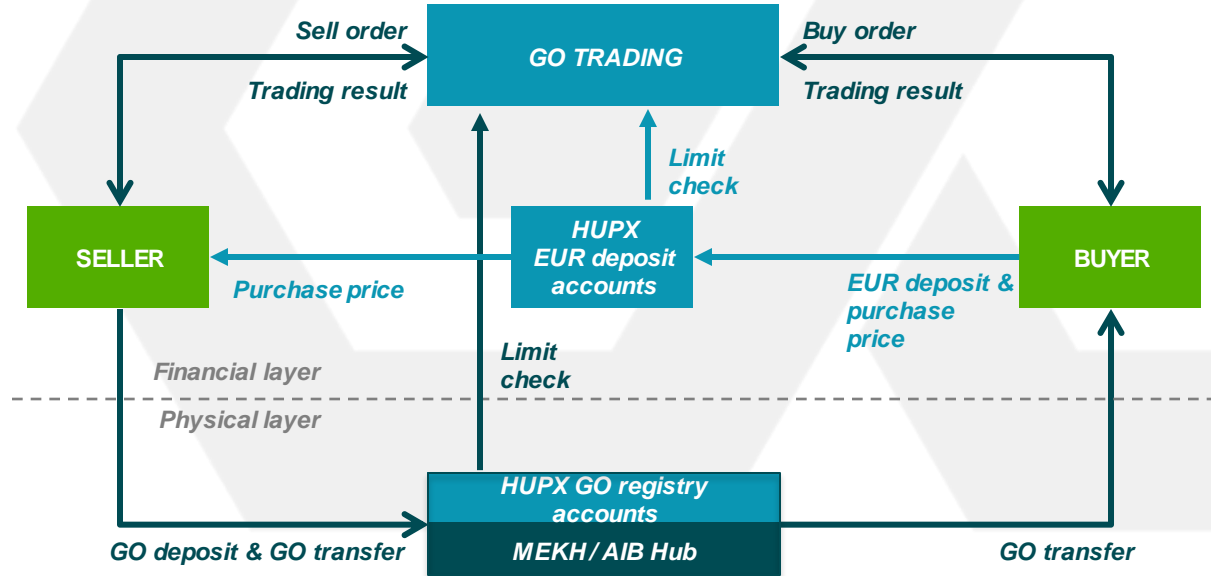
Hungary and other AIB countries



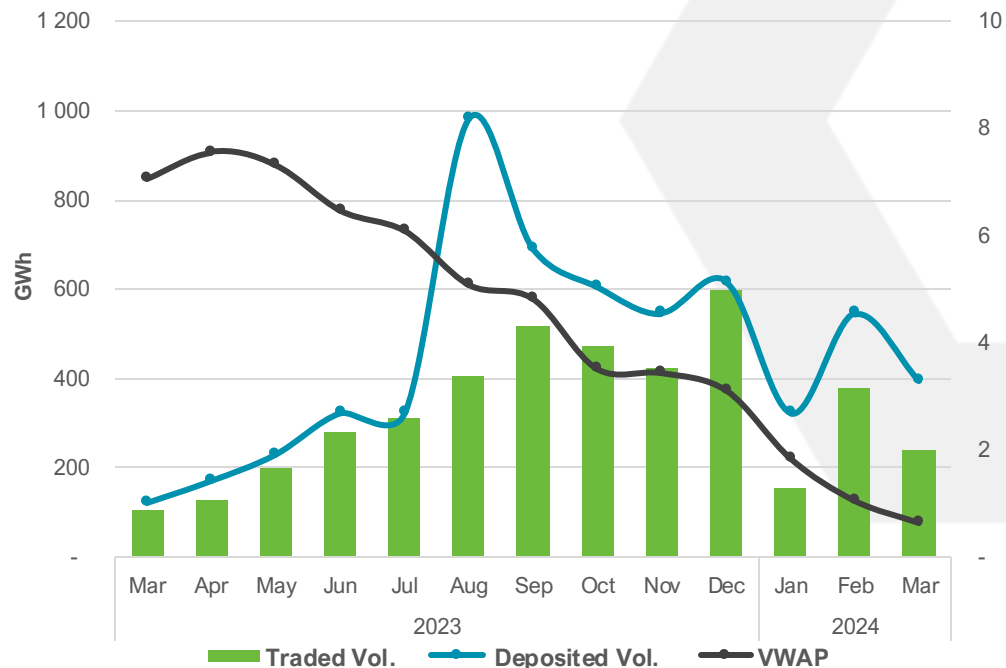
No risk & low cost

Self-cleared pre-paid methods, no extra costs of clearing, no additional margin requirements

- **Pre-paid cash collaterals** guarantee buy orders
- **Pre-transferred GO collaterals** guarantee sell orders
- **No third-party needed**, only HUPX membership fee applies



Deposited & Traded Volumes



Traded volume on GO market:

2022 : 2 294 GWh

2023 : 3 714 GWh (+61%) ↑

» The traded volume in 2023 increased by

61%

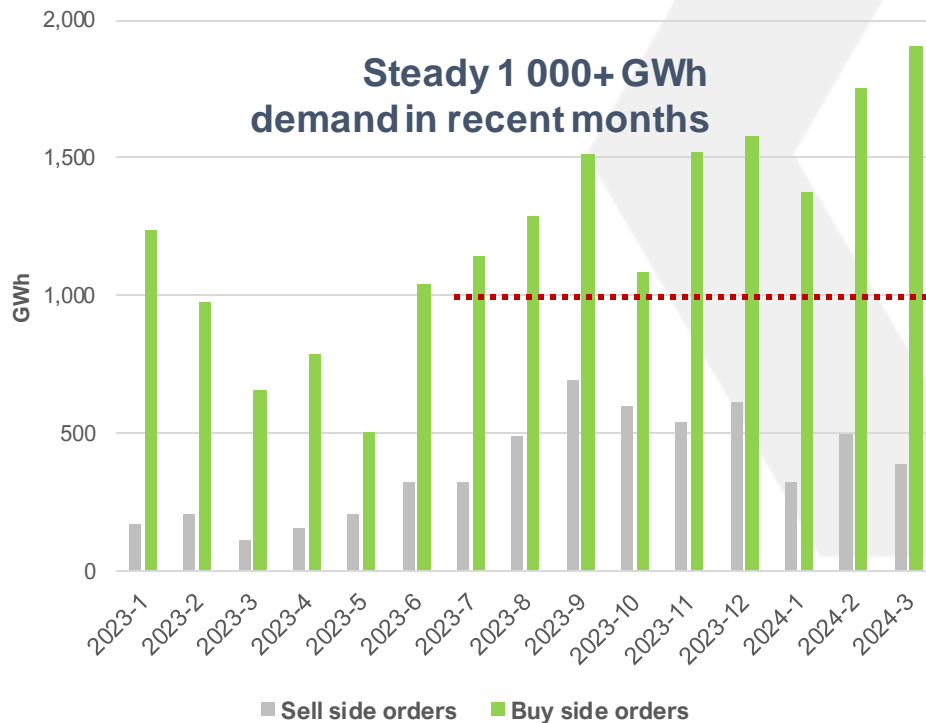
» Decreasing trend in the GO prices

» VWAP range : [7,56 ; 0,63]

» Offered quantity from :

» HU, HR, FI, FR, LV, IT, ES, CZ, NO, SE

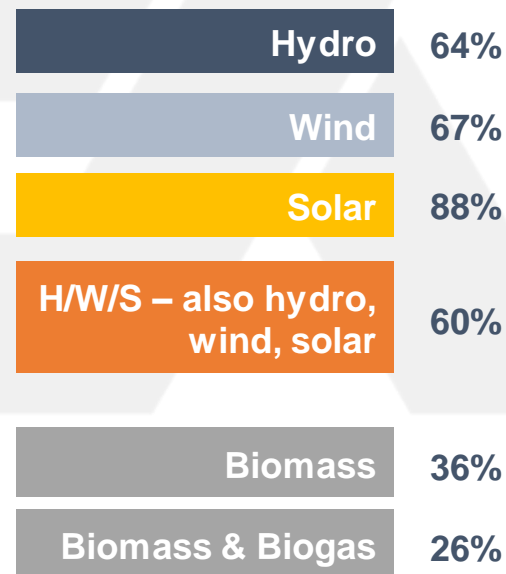
SELL and BUY side order volumes



Technology preferences

Most of the orders include more than 2 technologies, some interesting shares below.

For the buyer offers prefer:



Admission process

- ▶ **HUPX GO Membership Agreement:** documents available www.hupx.hu
- ▶ **Proof of GO Registry Account:** via any AIB country
↳ *the only precondition of joining the market*
- ▶ **No entrance fees**
- ▶ **No need for clearing house contract**
- ▶ **No need for special license**

Contact us

- ▶ **Sales:** membership@hupx.hu
- ▶ **Average duration of admission:**
3 days – 2 weeks

Fees

- ▶ **Membership fee:** 250 EUR/quarter
- ▶ **Transaction fee:** 0.03 EUR/MWh
- ▶ **Export fee:** 0.0135 EUR/MWh
(5 HUF/MWh pass through to MEKH) only to non-MEKH registries
- ▶ **Import fee:** 0.027 EUR/MWh
(10 HUF/MWh pass through to MEKH) only from non-MEKH registries

Thank you for the attention!

For further questions, meet us at our booth!