



**Monthly Report**  
April 2024

**Electricity &  
NGAS Markets**







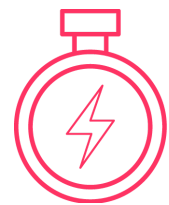
Summary

1



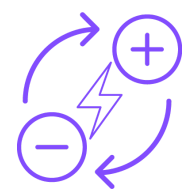
DAM

3



IDM

19



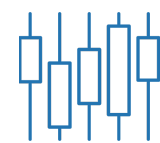
DAM&IDM

25



Natural Gas  
Trading Platform

33



Derivatives

38



Annex

40

## Summary

Apr 2024  
Mar 2024  
Apr 2023

**DAM**

**CRIDA1**

**CRIDA2**

**CRIDA3**

**XBID\***

**NGAS\***



€/MWh

60.11	57.26	58.13	60.95	49.70	25.63
67.54	66.80	66.69	71.90	65.81	24.70
120.44	115.37	108.38	107.07	96.55	42.25



GWh

4,368	33.0	33.4	18.2	111.35	594.27
4,548	31.2	34.3	22.3	120.7	596
3,728	41.4	48.7	28.6	336.0	543.6



M €

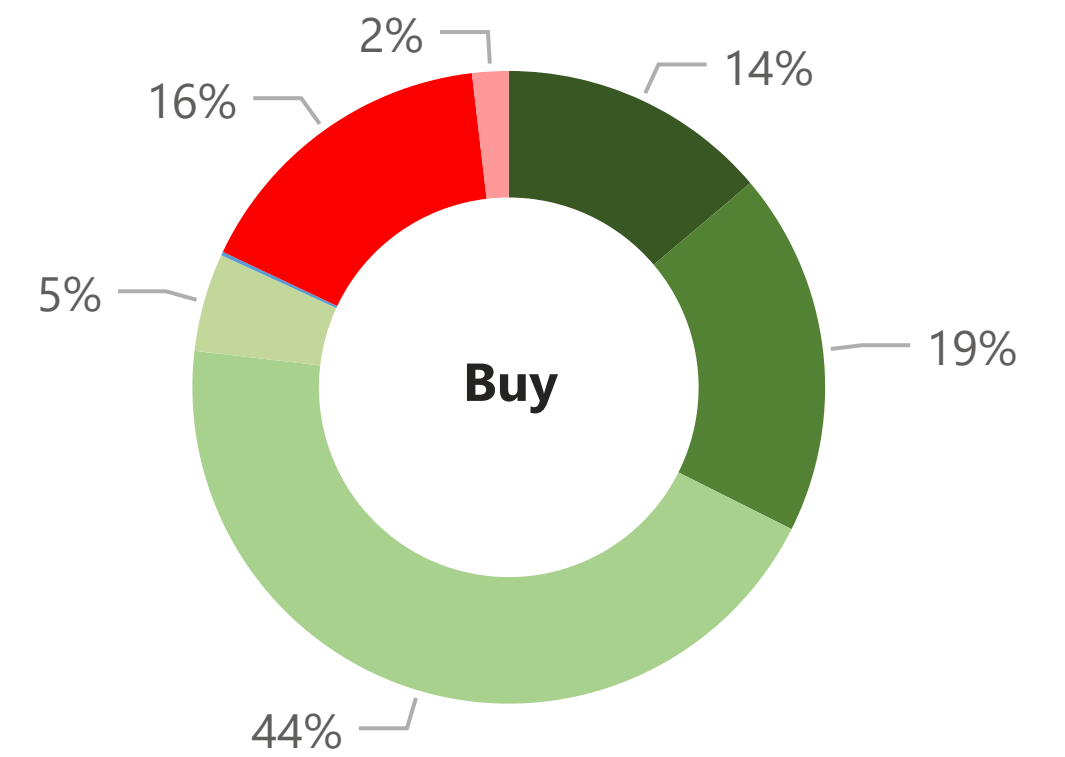
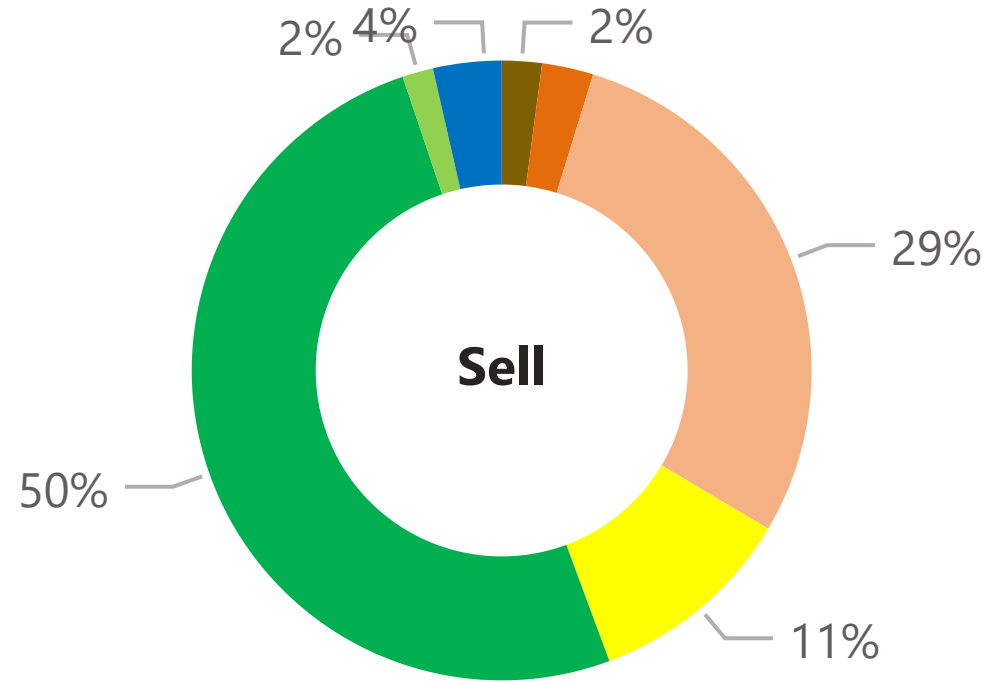
261.7	2.09	1.98	1.23	5.53	15.23
309.0	1.88	2.25	1.69	7.94	14.73
448.82	5.04	5.39	3.15	32.44	22.97

\*The NGAS and XBID Prices (€/MWh) refer to the weighted average of all trades (incl. all contracts) of the respective month.

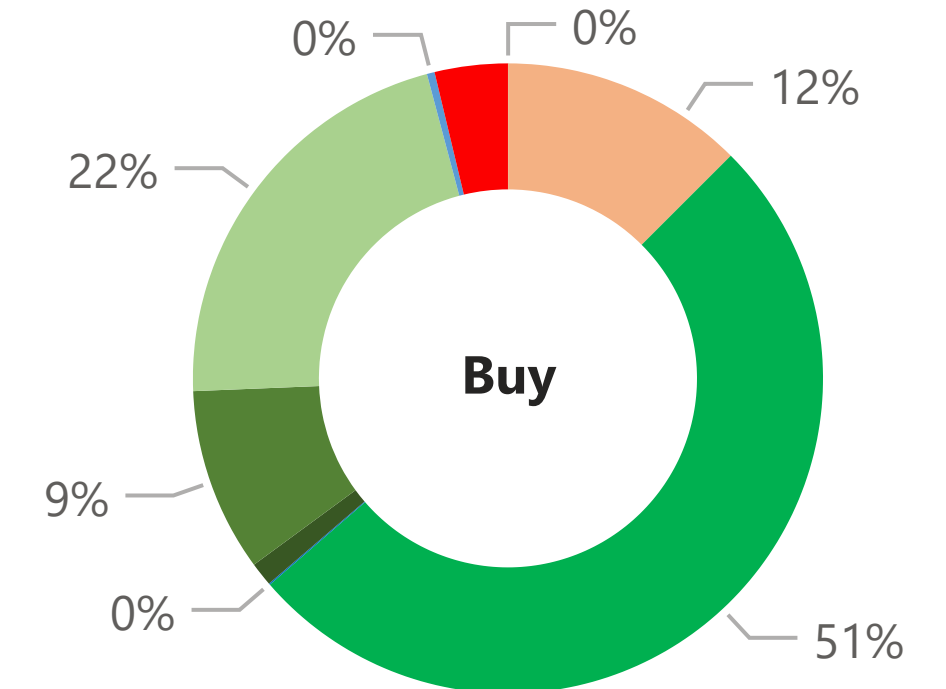
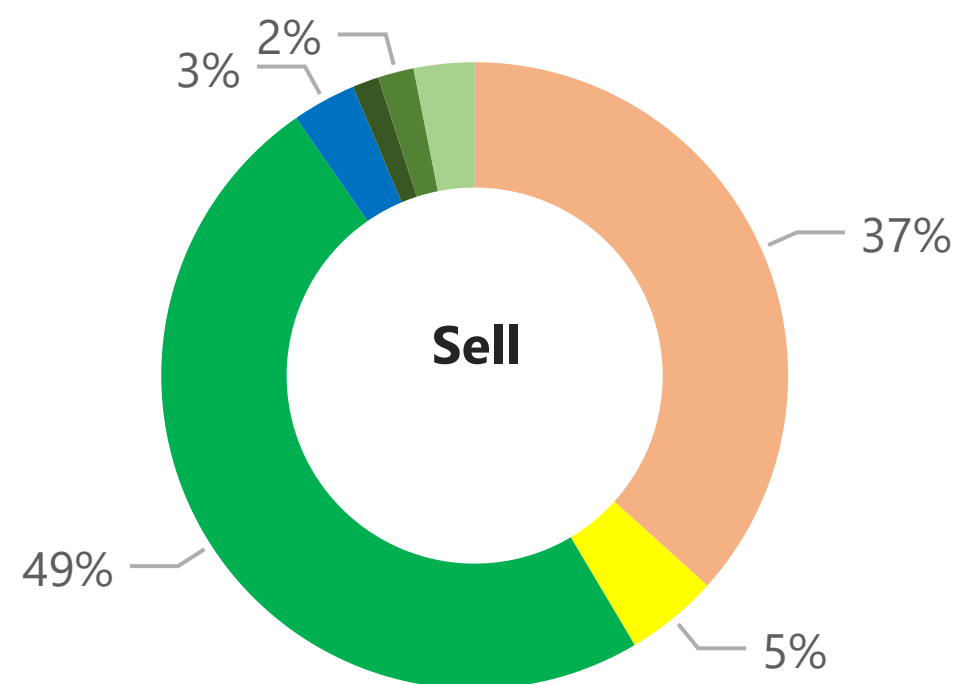
All volumes are one sided. XBID volumes are the average of all sell/buy trades.

## Volume mix

DAM

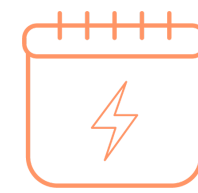


IDM



- Lignite
- Crete Conventional
- Gas
- RES
- Crete RES
- Hydro
- Imports
- HV Load
- MV Load
- LV Load
- Crete Load
- Exports
- Pumping





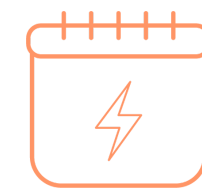
# 1. DAM

**Market Clearing Price (MCP)**

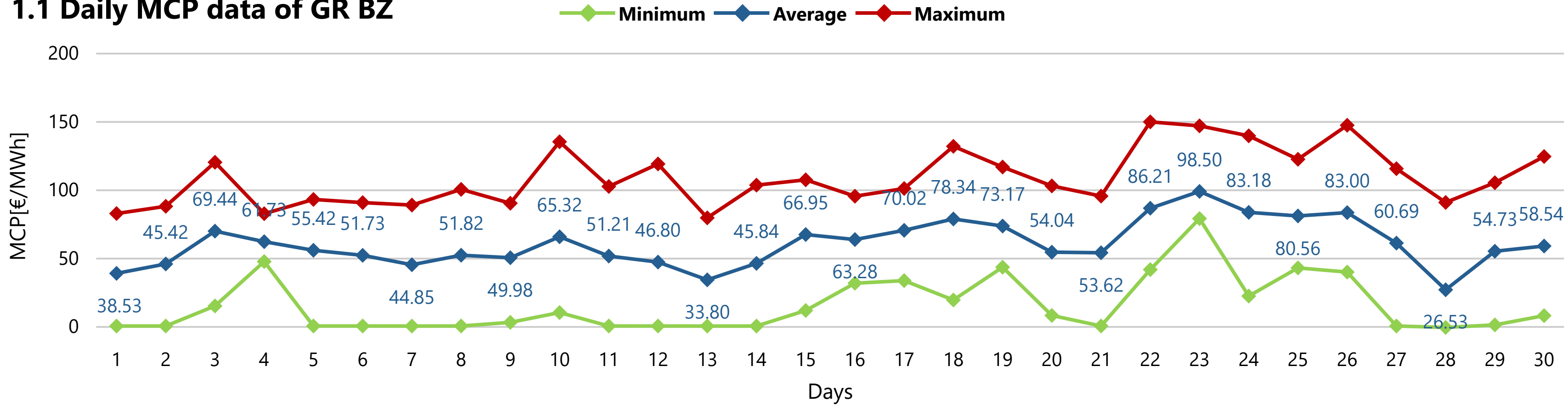
**Volumes, technologies and order types**

**Interconnections**

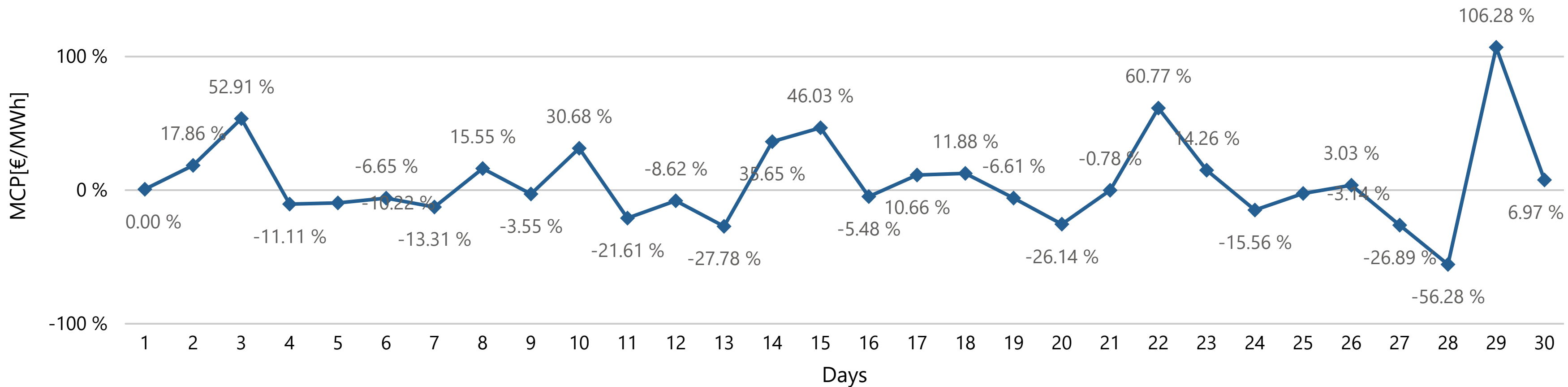




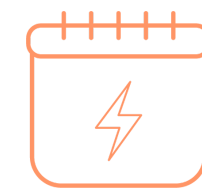
## 1.1 Daily MCP data of GR BZ



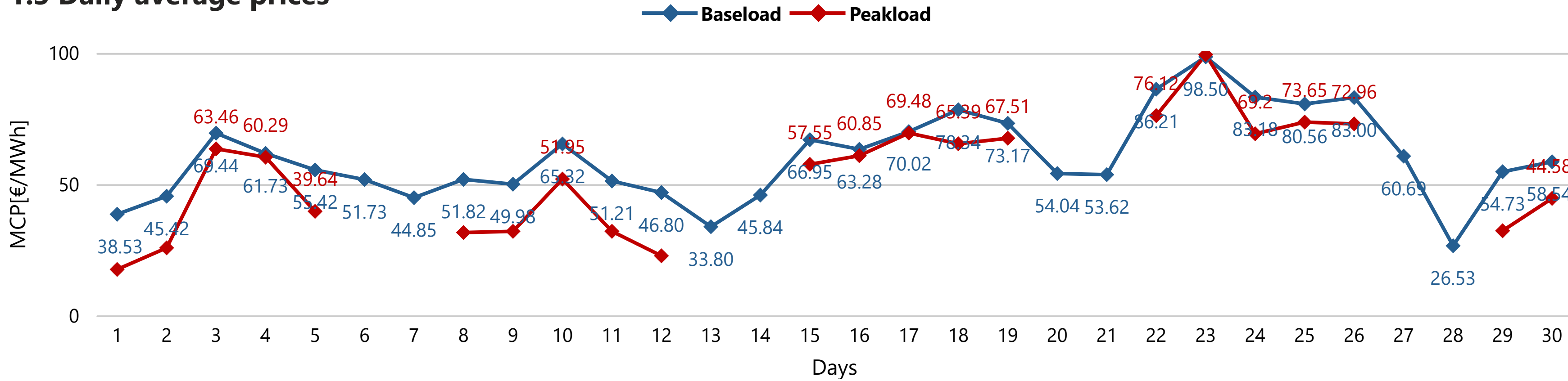
## 1.2 Daily percentage change in price



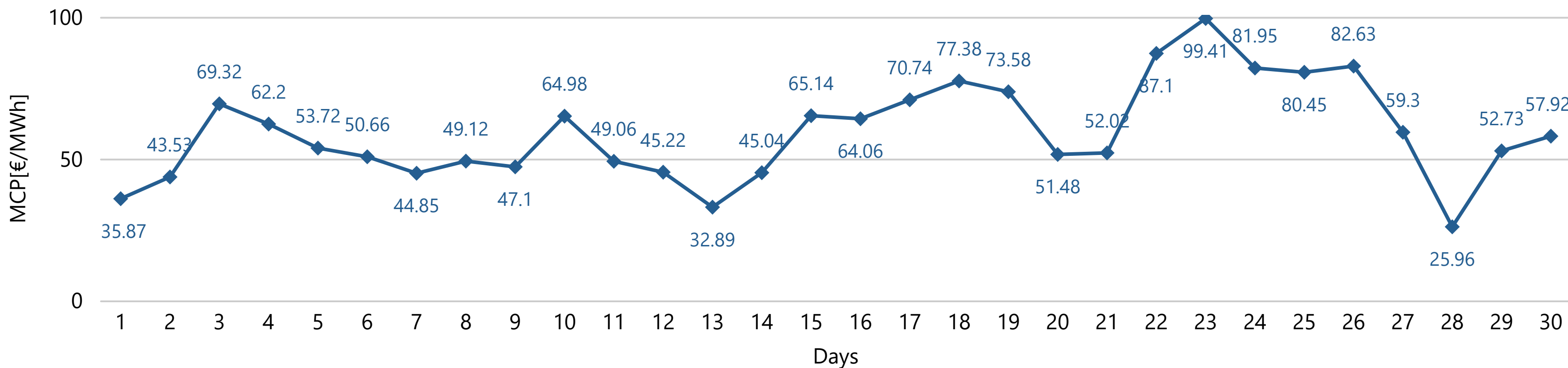




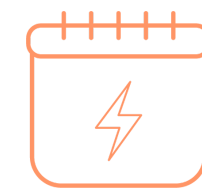
## 1.3 Daily average prices



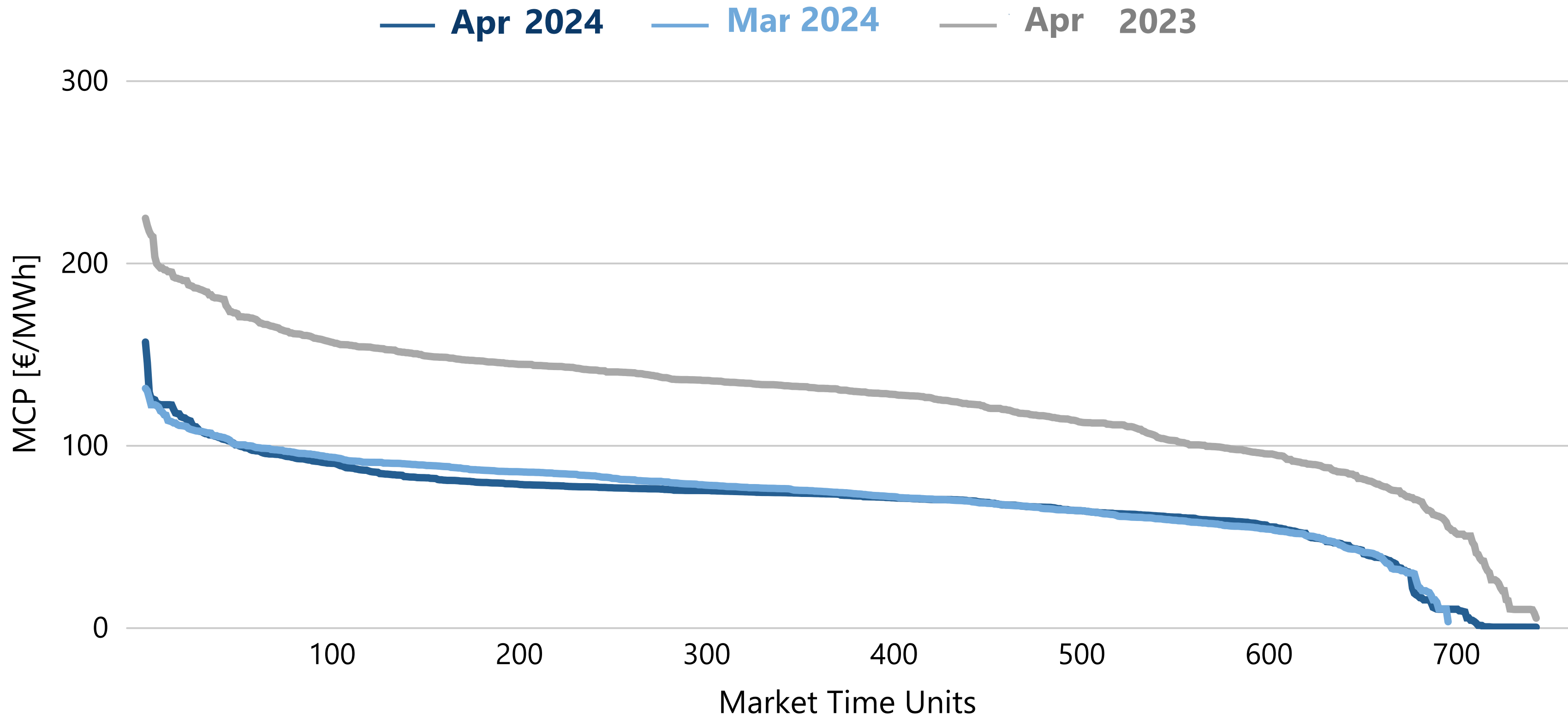
## 1.4 Daily weighted average baseload price



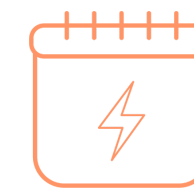




## 1.5 MCP duration curve

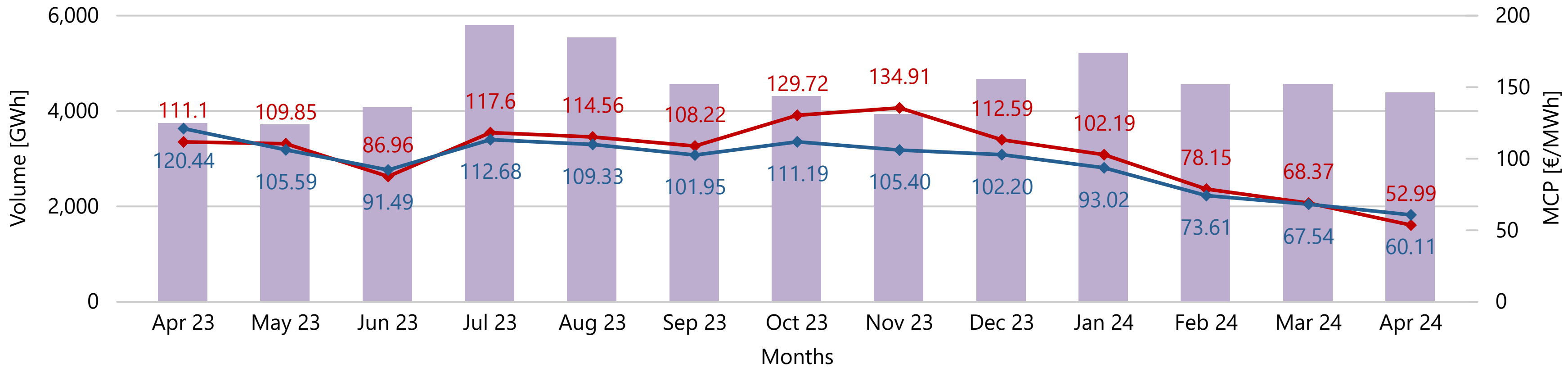






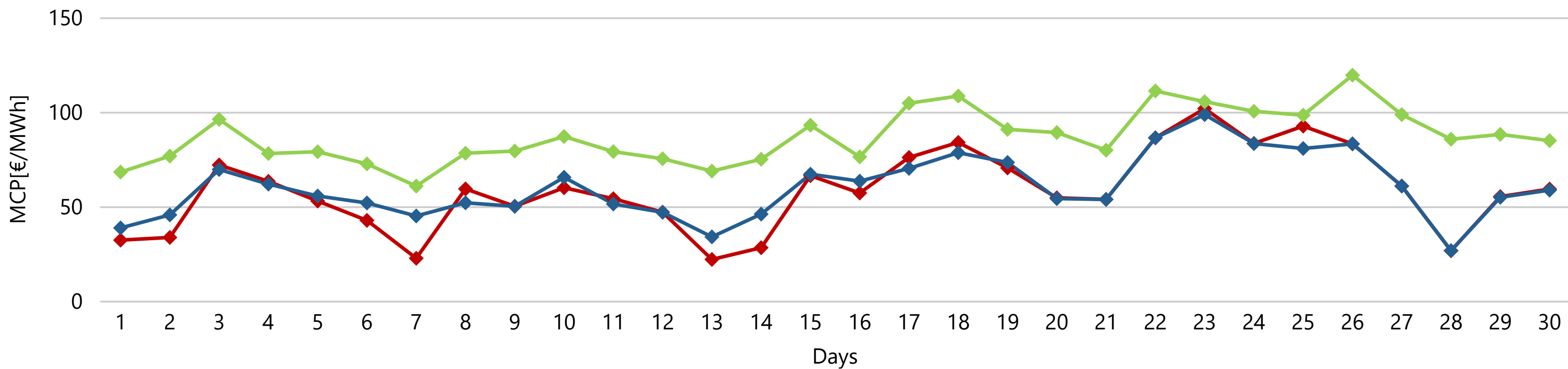
## 1.6 Monthly volume and average prices

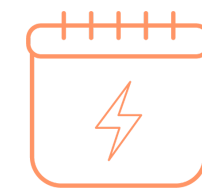
● Volume ● Peakload ◆ Baseload



## 1.7 Daily average MCP of GR, IT, BG

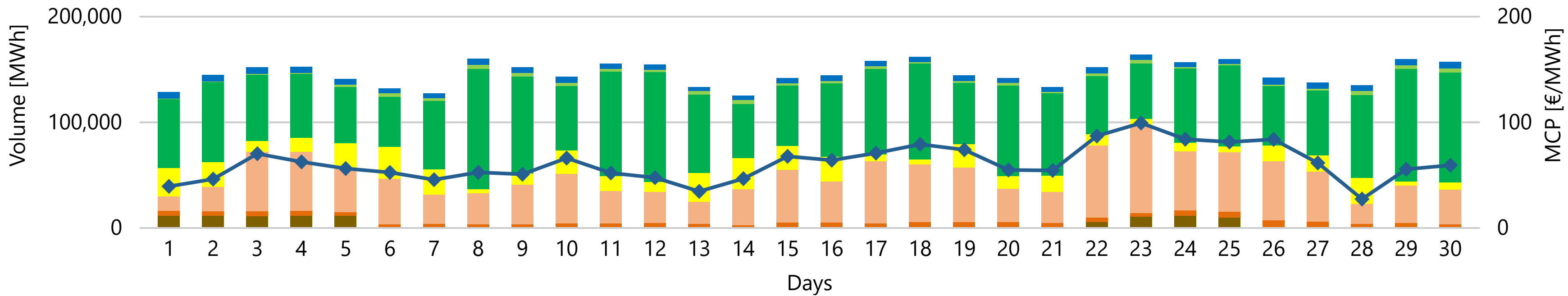
◆ Bulgaria ◆ Greece ◆ Italy(PUN)





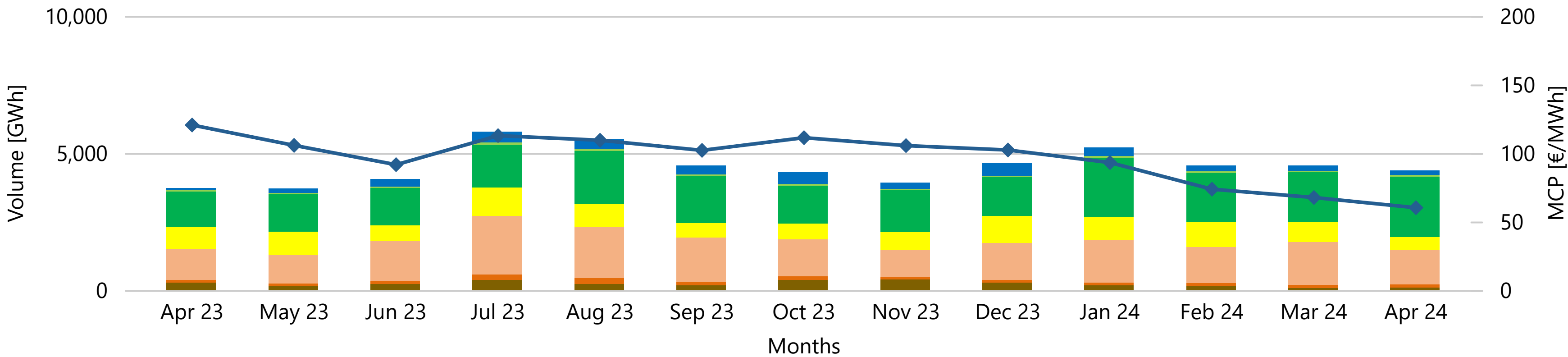
## 1.8 Volume mix of sell side per day

● Lignite 
 ● Crete Conventional 
 ● Gas 
 ● Import 
 ● RES 
 ● Crete RES 
 ● Hydro 
 ◆ MCP

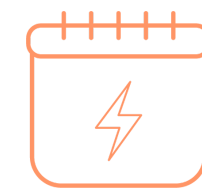


## 1.9 Volume mix of sell side per month

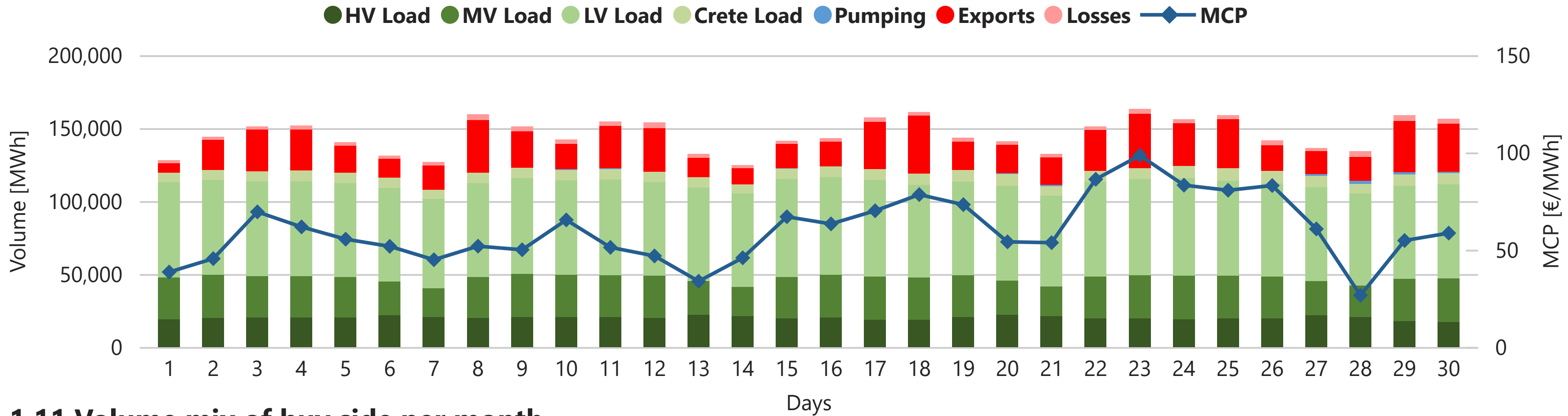
● Lignite 
 ● Crete Conventional 
 ● Gas 
 ● Imports 
 ● RES 
 ● Crete RES 
 ● Hydro 
 ◆ MCP



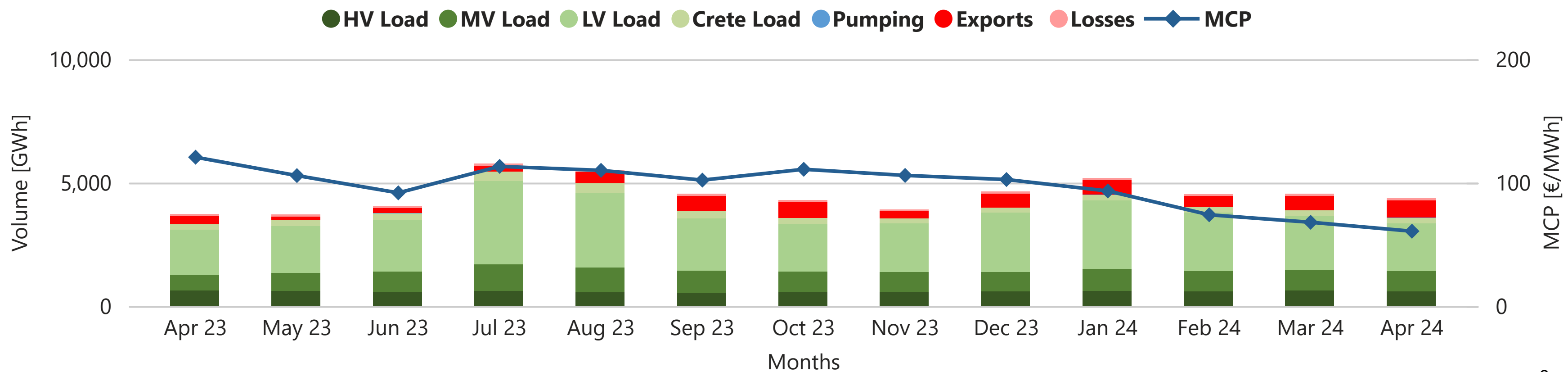




## 1.10 Volume mix of buy side per day



## 1.11 Volume mix of buy side per month

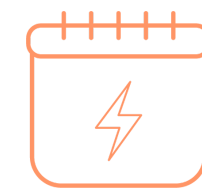




## 1.12 Table with MCP and volume per month

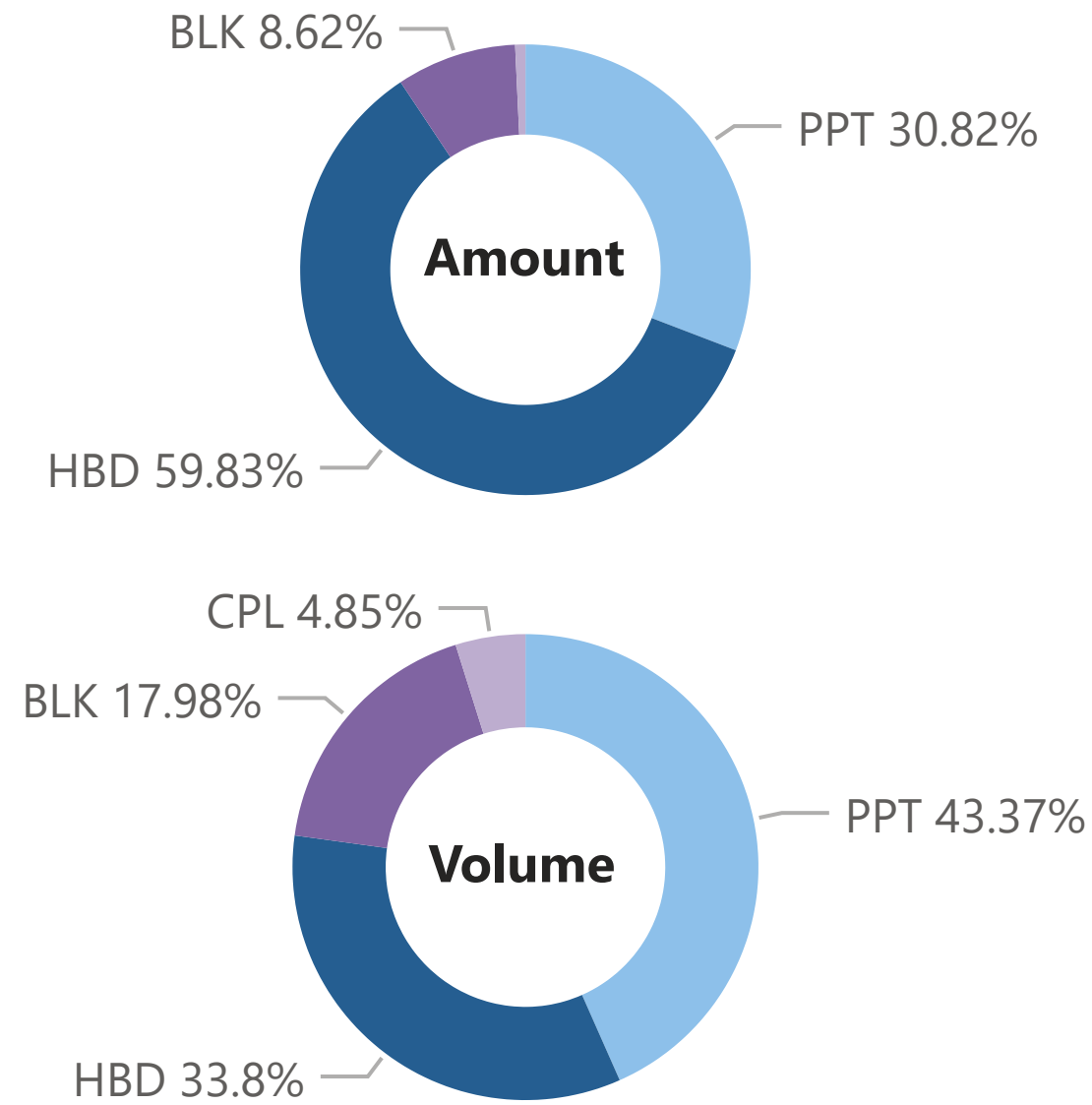
Year	Month	Minimum MCP[€/MWh]	Average MCP[€/MWh]		Maximum MCP[€/MWh]	Peakload MCP[€/MWh]		Volume [GWh]
2023	April	0.18	120.44	↘ -2%	211.00	111.10	↘ -7%	128,174
2023	May	0.00	105.59	↓ -12%	195.07	109.85	↘ -1%	128,174
2023	June	0.02	91.49	↓ -13%	174.99	86.96	↓ -21%	128,174
2023	July	0.00	112.68	↑ 23%	245.30	117.60	↑ 35%	128,174
2023	August	0.00	109.33	↘ -3%	384.82	114.56	↘ -3%	128,174
2023	September	0.00	101.95	↘ -7%	362.17	108.22	↘ -6%	128,174
2023	October	0.00	111.19	↗ 9%	301.15	129.72	↑ 20%	128,174
2023	November	0.00	105.40	↘ -5%	259.96	134.91	↗ 4%	128,174
2023	December	0.04	102.20	↘ -3%	219.11	112.59	↓ -17%	128,174
2024	January	0.54	93.02	↘ -9%	190.96	102.19	↘ -9%	128,174
2024	February	3.00	73.61	↓ -21%	130.97	78.15	↓ -24%	128,174
2024	March	0.00	67.54	↘ -8%	156.39	68.37	↓ -13%	128,174
2024	April	-1.02	60.11	↓ -11%	149.39	52.99	↓ -22%	128,174



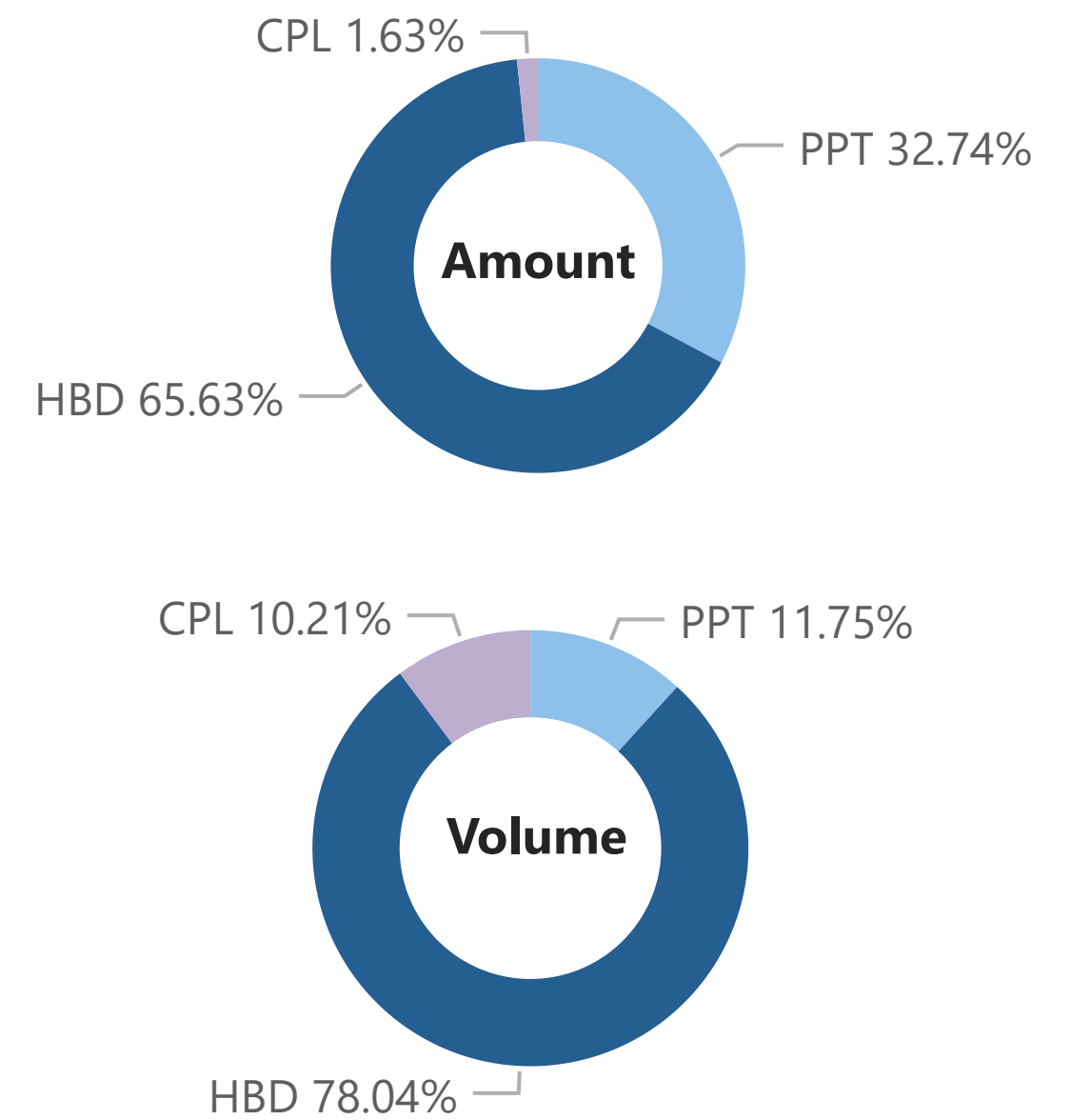


## 1.13 Trades per Order type

### Sell Side



### Buy Side

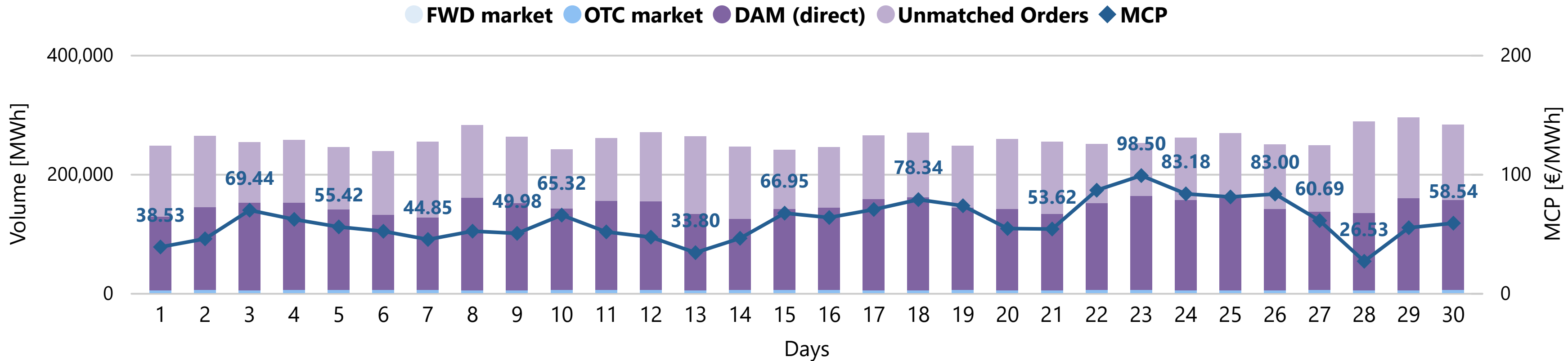


	PPT	HBD	BLK	CPL
Amount	16547	32123	4626	395
Volume [GWh]	1894	1476	785	212

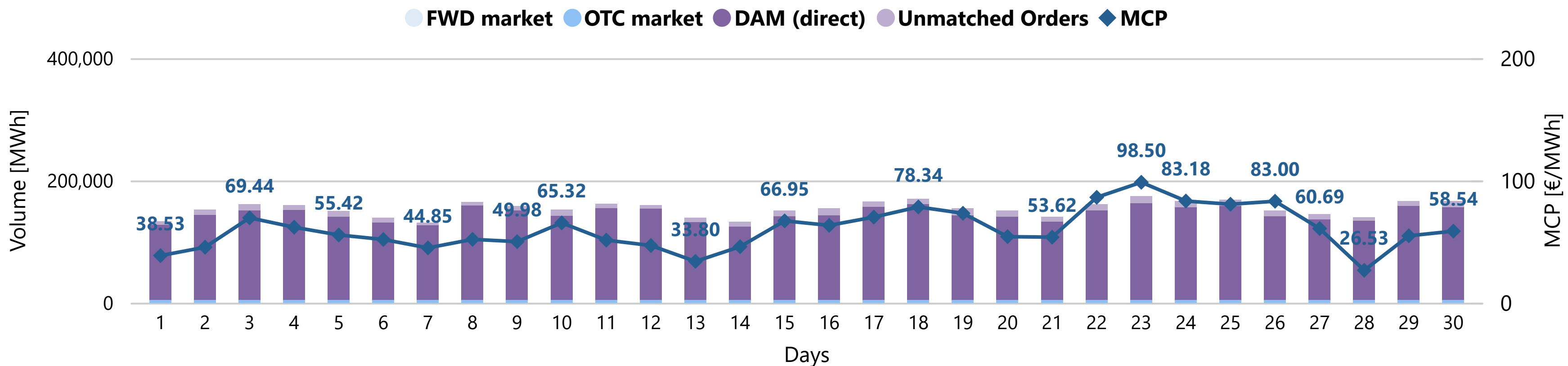
	PPT	HBD	CPL
Amount	18520	37128	922
Volume [GWh]	513	3409	446



## 1.14 Total volume and traded volume per Market Source of sell orders



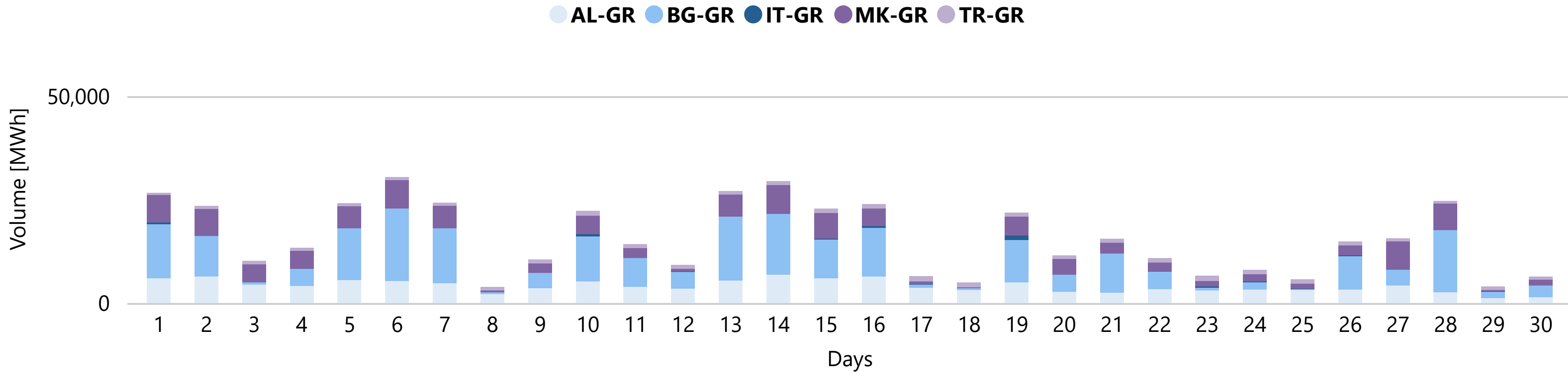
## 1.15 Total volume and traded volume per Market Source of buy orders



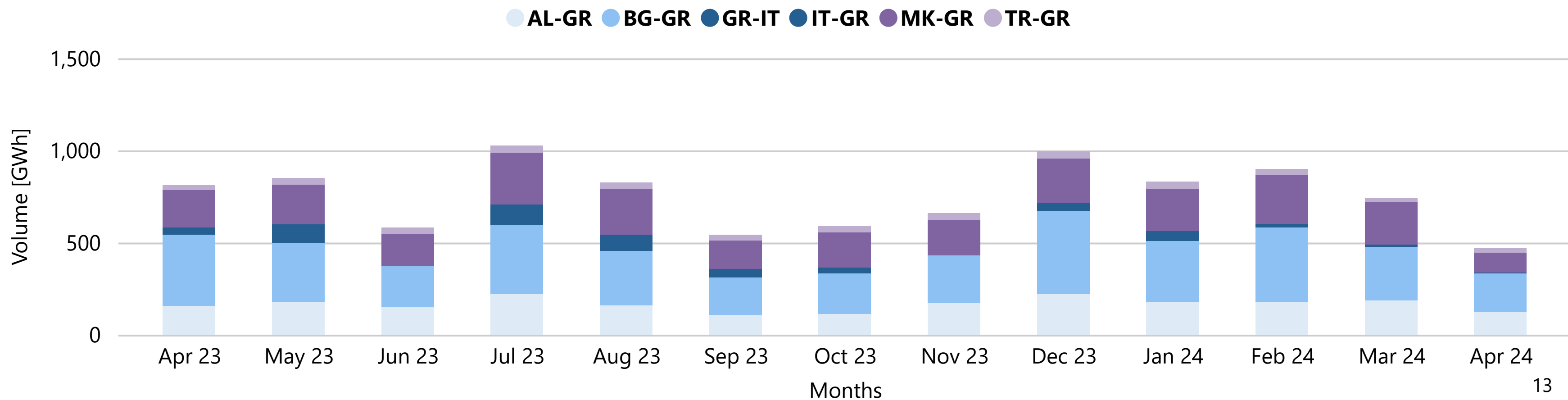


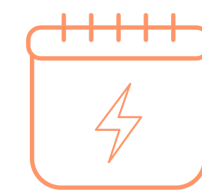


## 1.16 Cross Border volume · Imports per day

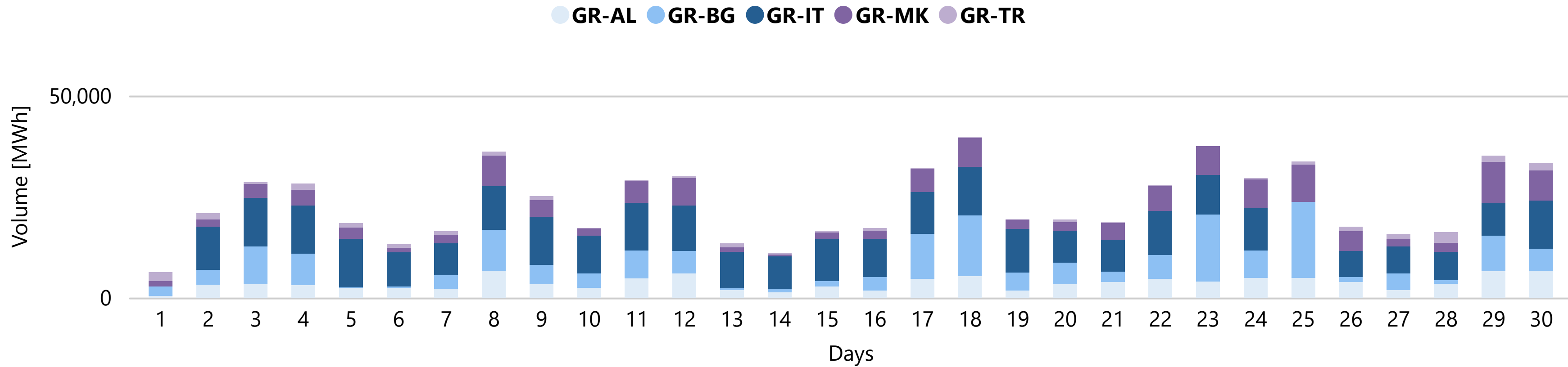


## 1.17 Cross Border volume · Imports per month

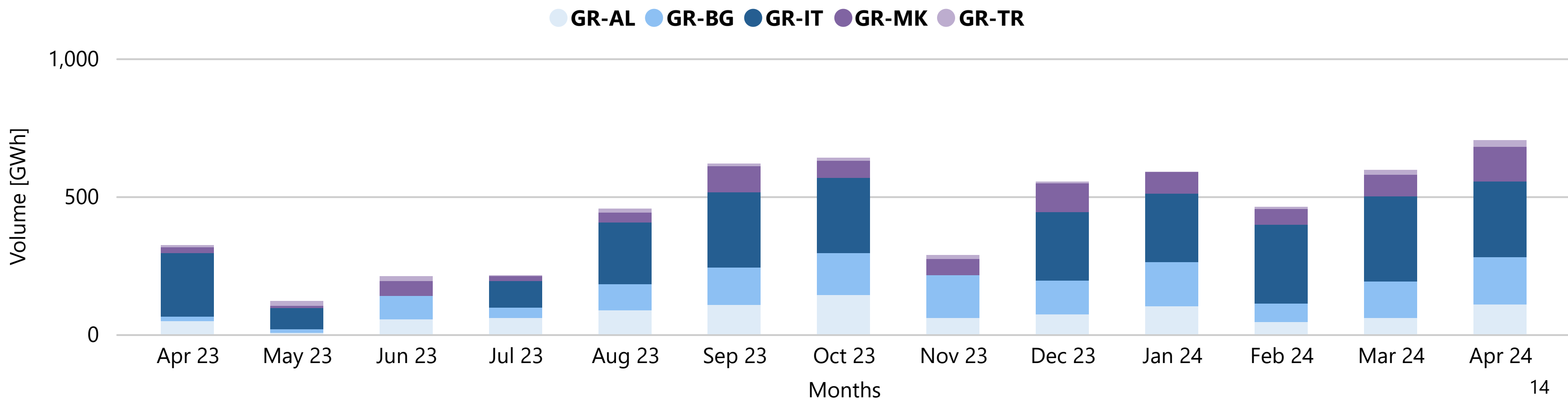




## 1.18 Cross Border volume - Exports per day



## 1.19 Cross Border volume - Exports per month

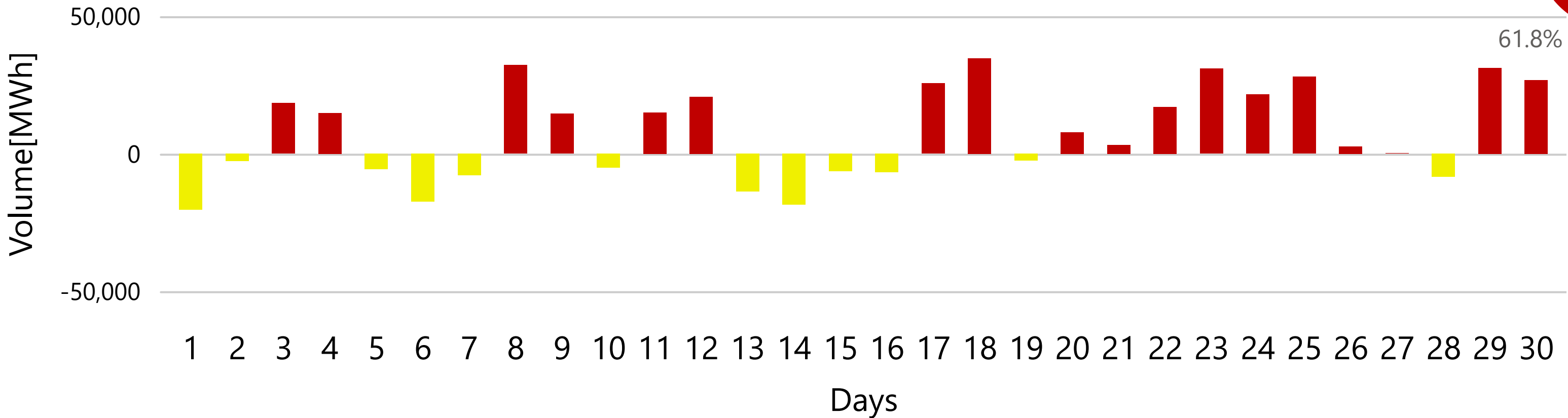
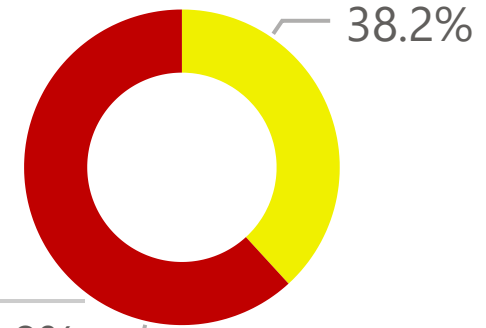




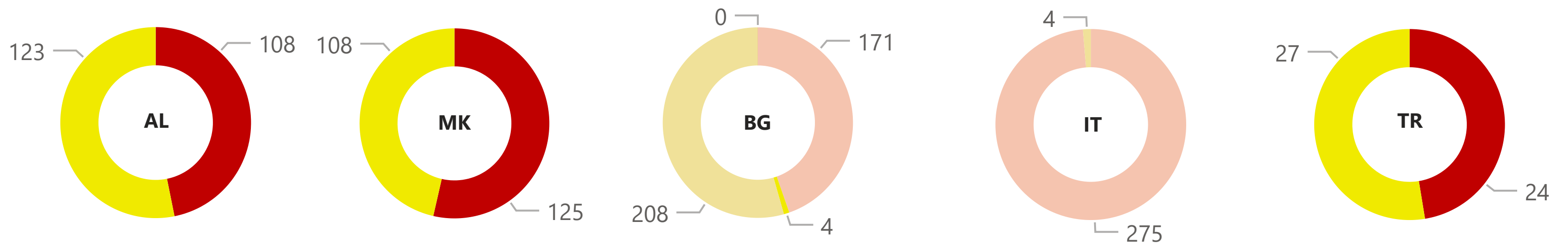
## 1.20 Net position of all cross-border flows

● Net Position: Import ● Net Position: Export

Percentage of hours in month with Net Position:  
● Import  
● Export



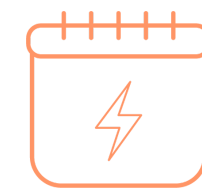
## 1.21 Cross Border Volumes (GWh) per Border



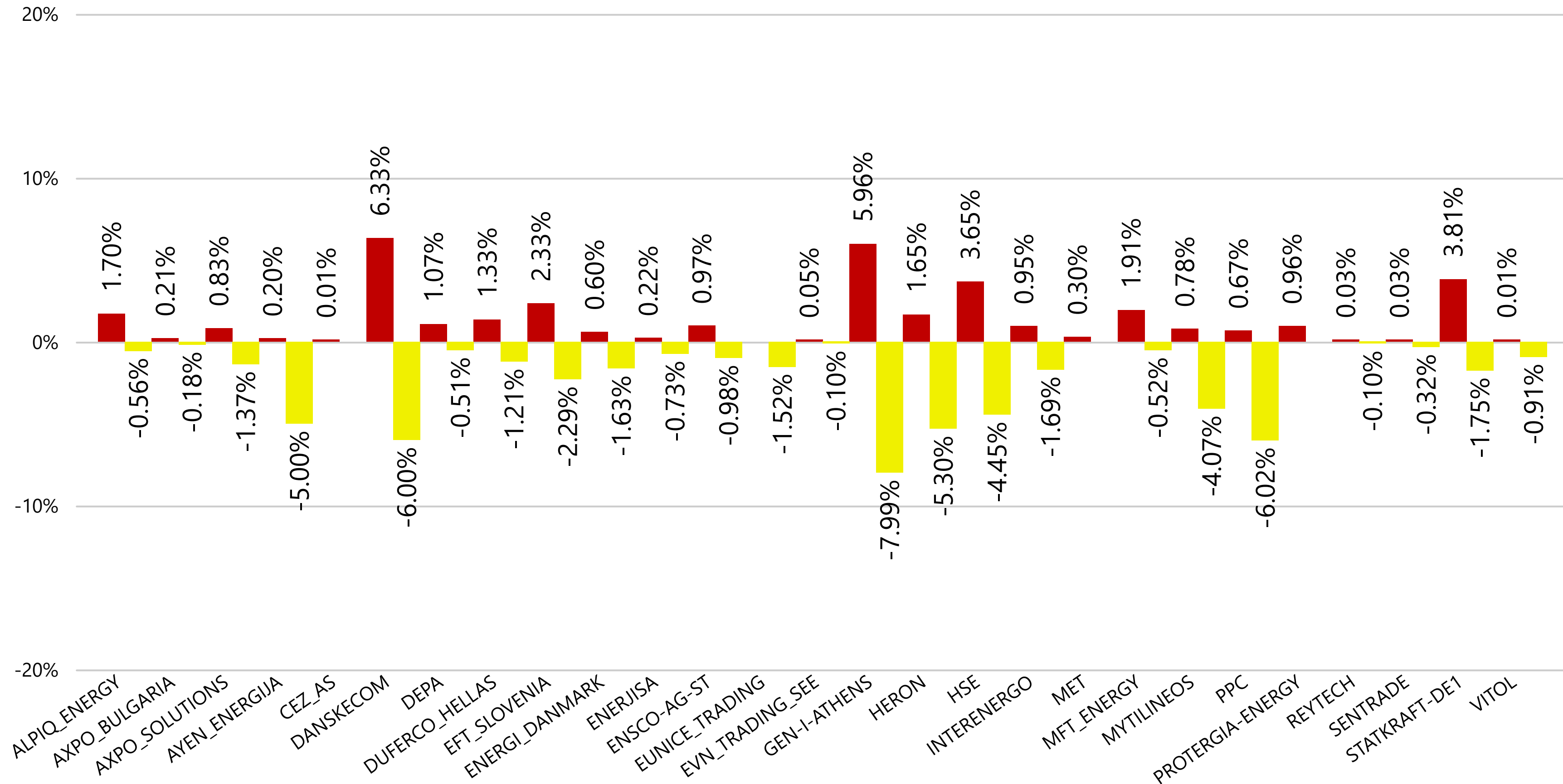
● Exports-Implicit Allocation ● Exports-Explicit Allocation

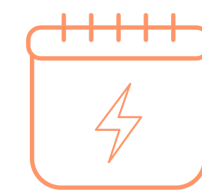
● Imports-Implicit Allocation ● Imports-Explicit Allocation





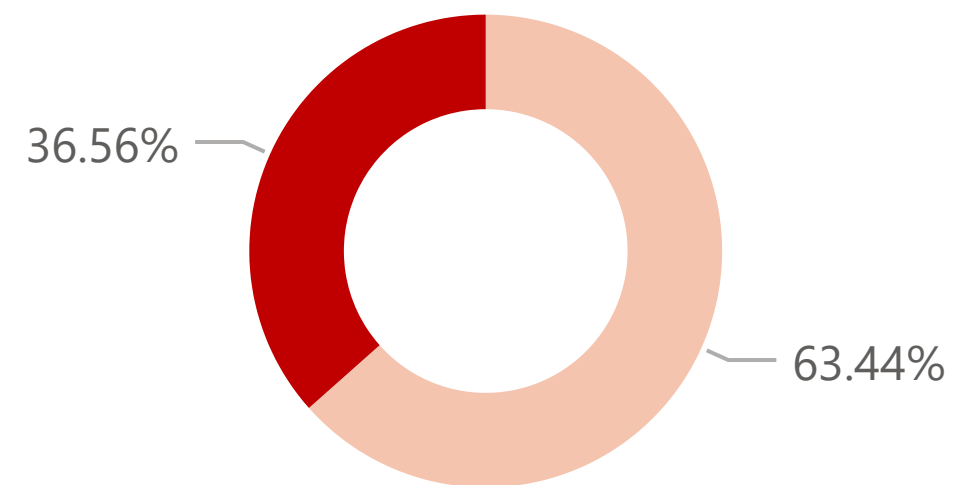
## 1.22 Market shares of Imports and Exports per Market participant





## 1.23 Total market shares of Imports and Exports

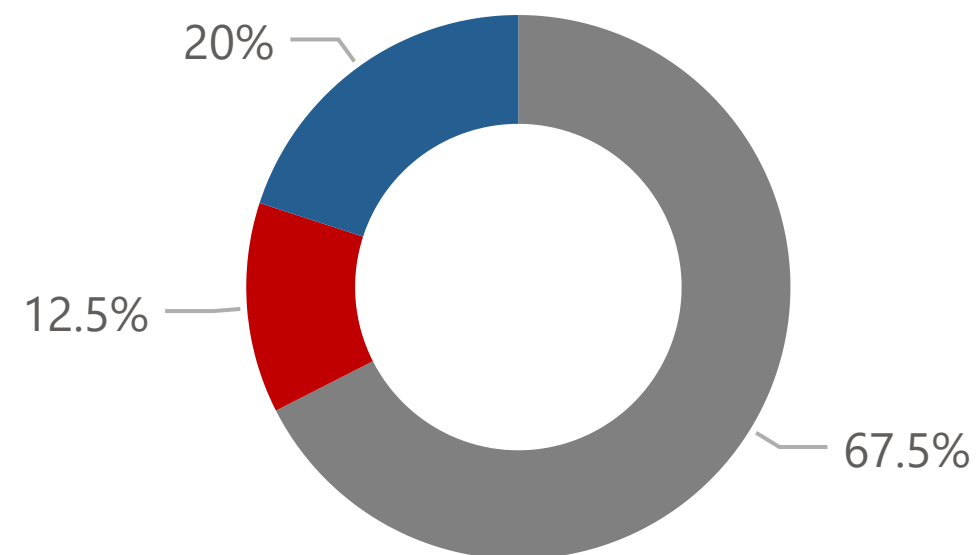
● Exports - Implicit Allocation ● Exports - Explicit Allocation



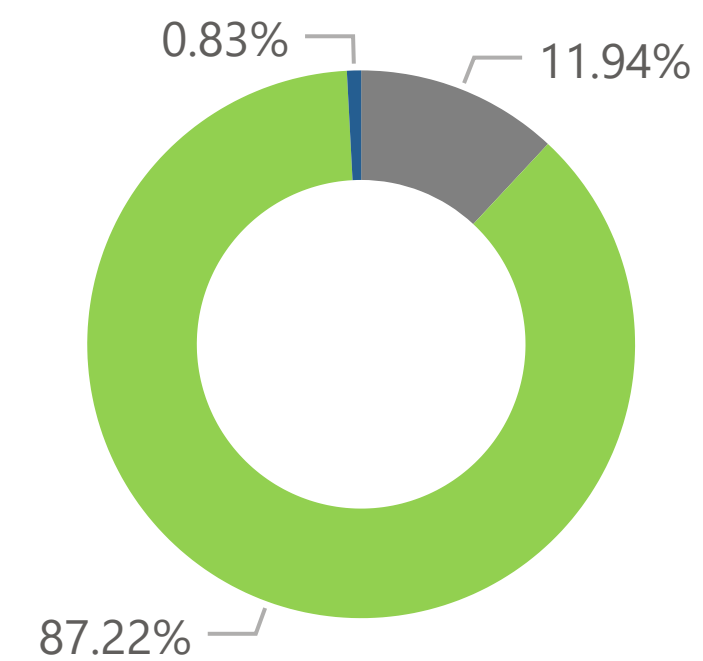
● Imports - Implicit Allocation ● Imports - Explicit Allocation



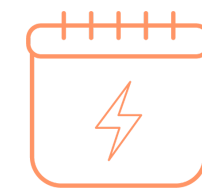
## 1.24 Price Coupling Data



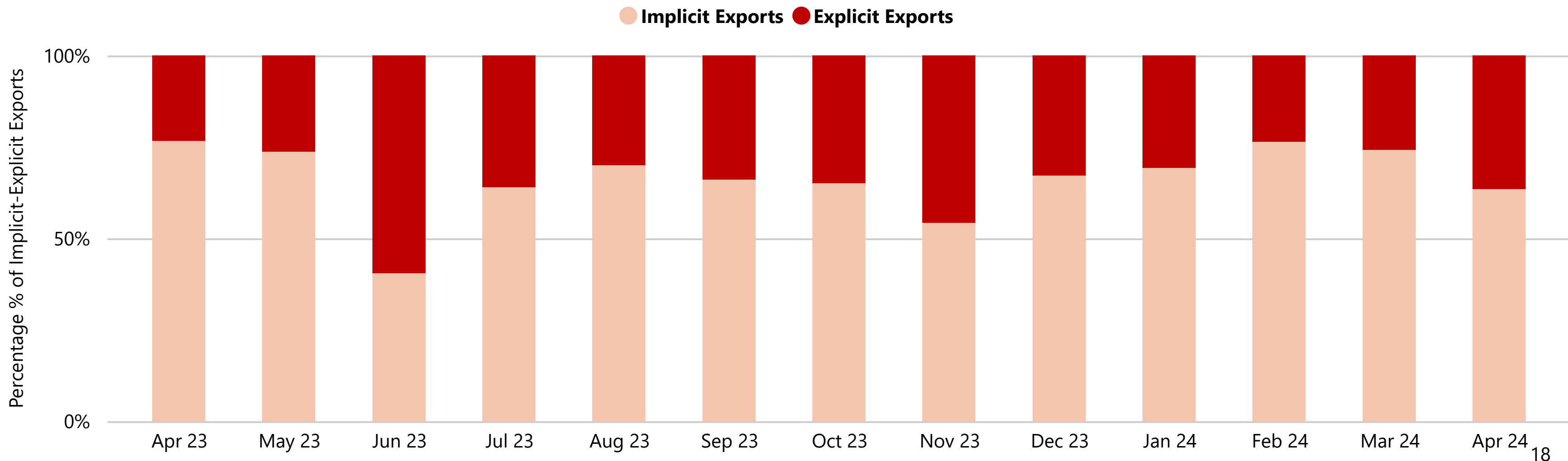
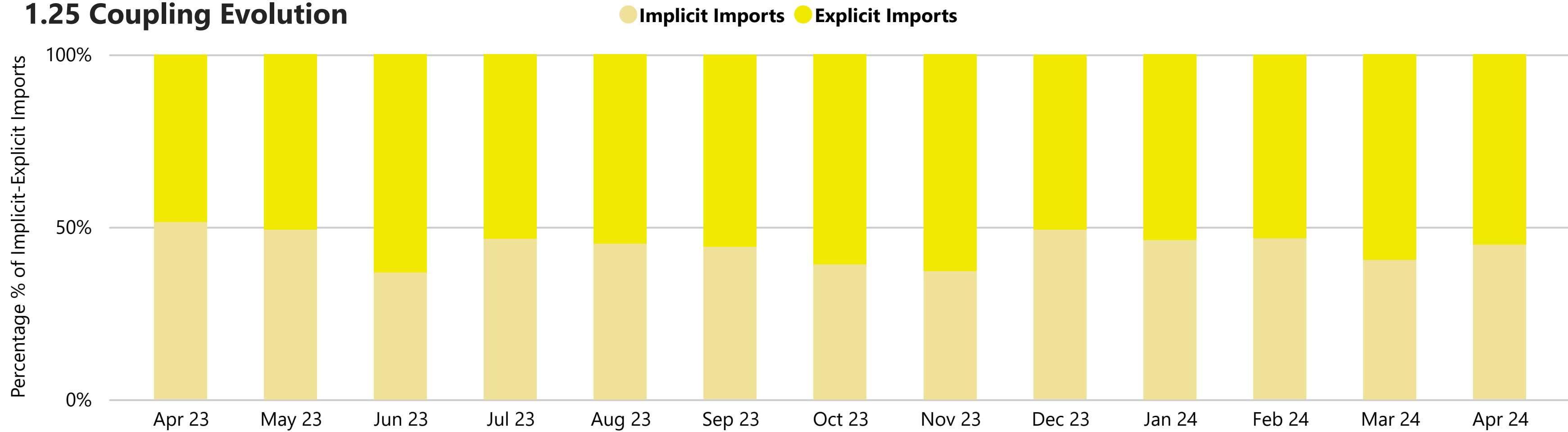
● MTUs GR = BG ● MTUs GR < BG ● MTUs GR > BG



● MTUs GR = IT ● MTUs GR < IT ● MTUs GR > IT



## 1.25 Coupling Evolution



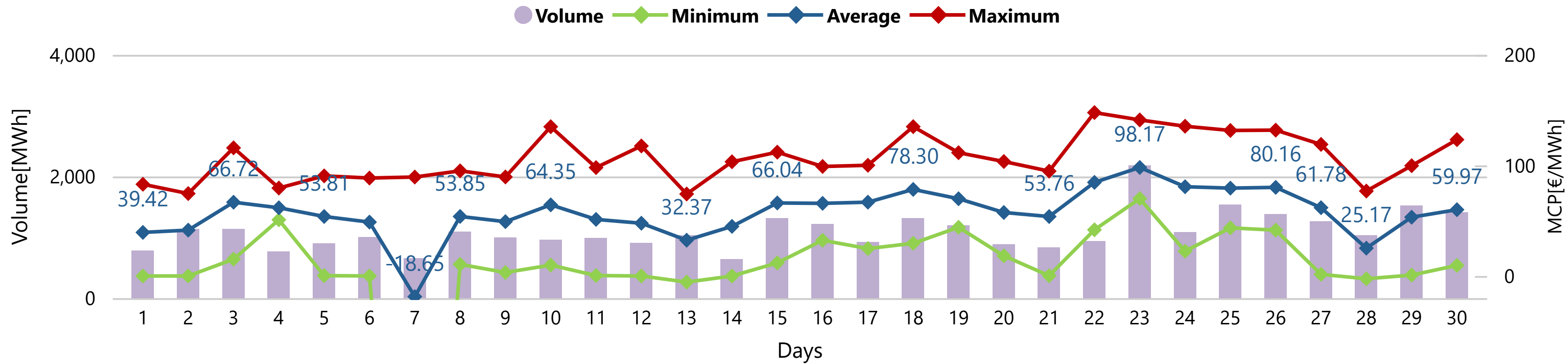


## 2. IDM

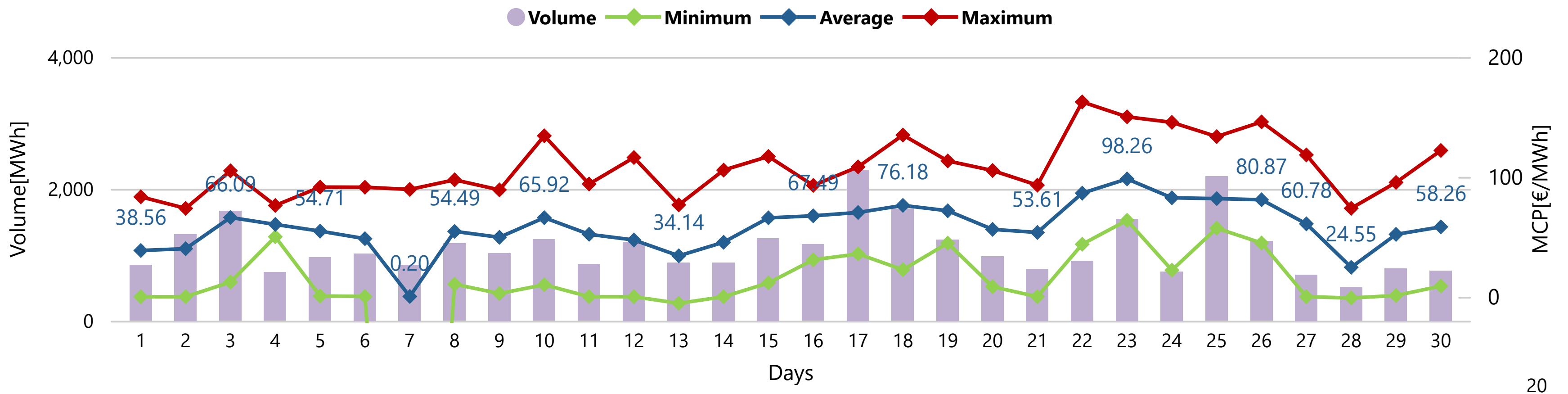
**Market Clearing Prices (MCP)**

**Volumes, technologies and order types**

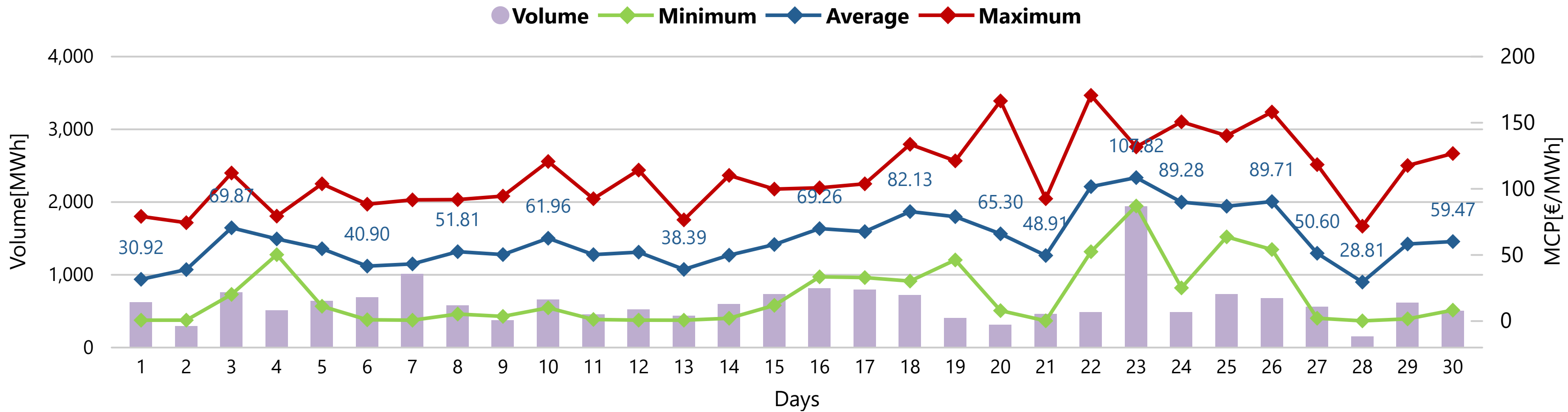
## 2.1 Daily MCP and Volume •CRIDA1



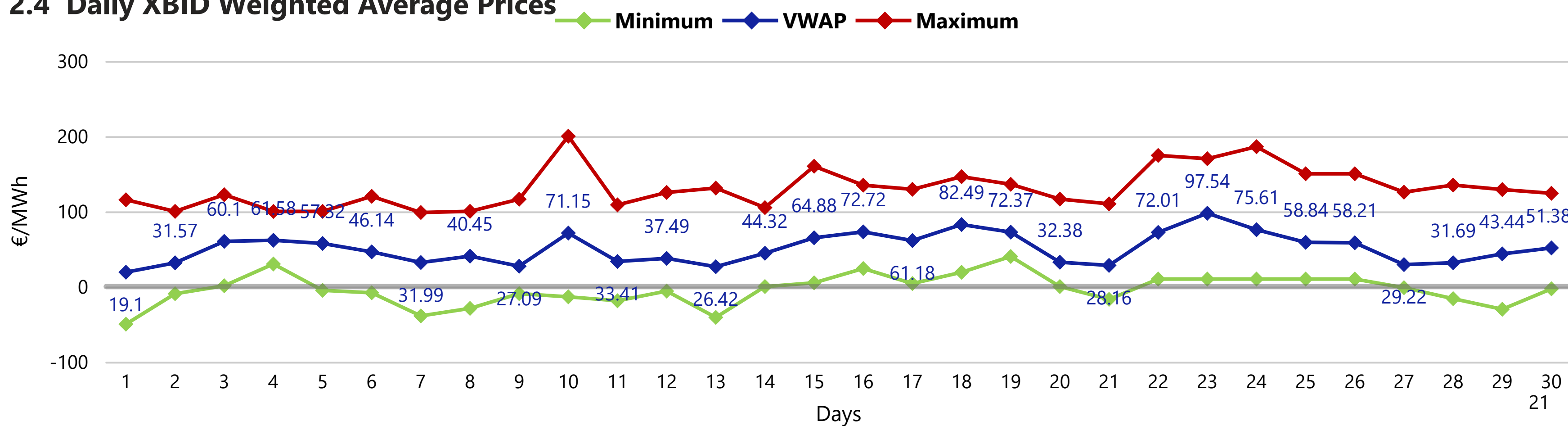
## 2.2 Daily MCP and Volume •CRIDA2



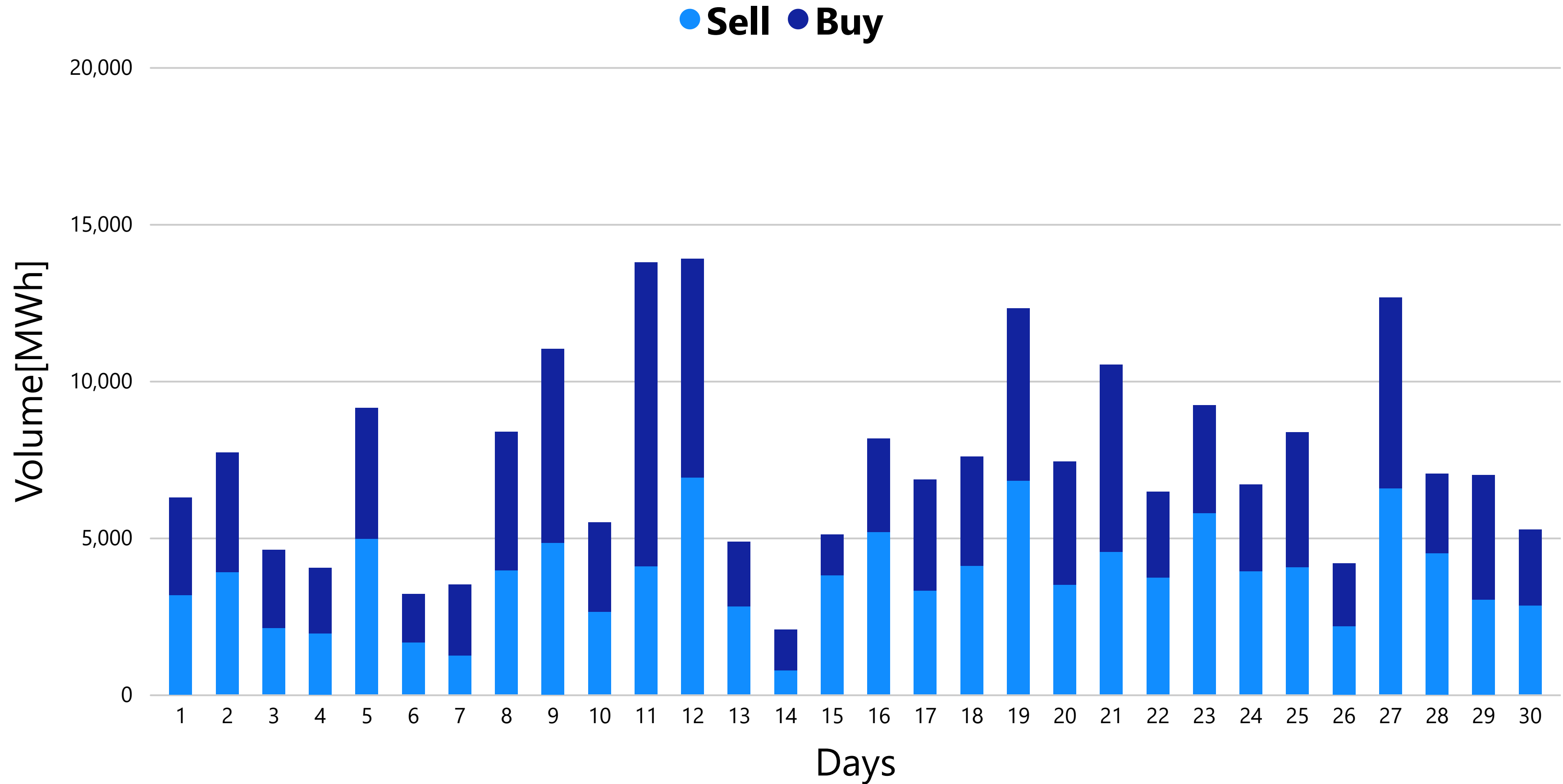
## 2.3 Daily MCP and Volume •CRIDA3



## 2.4 Daily XBID Weighted Average Prices



## 2.5 Daily XBID Volumes

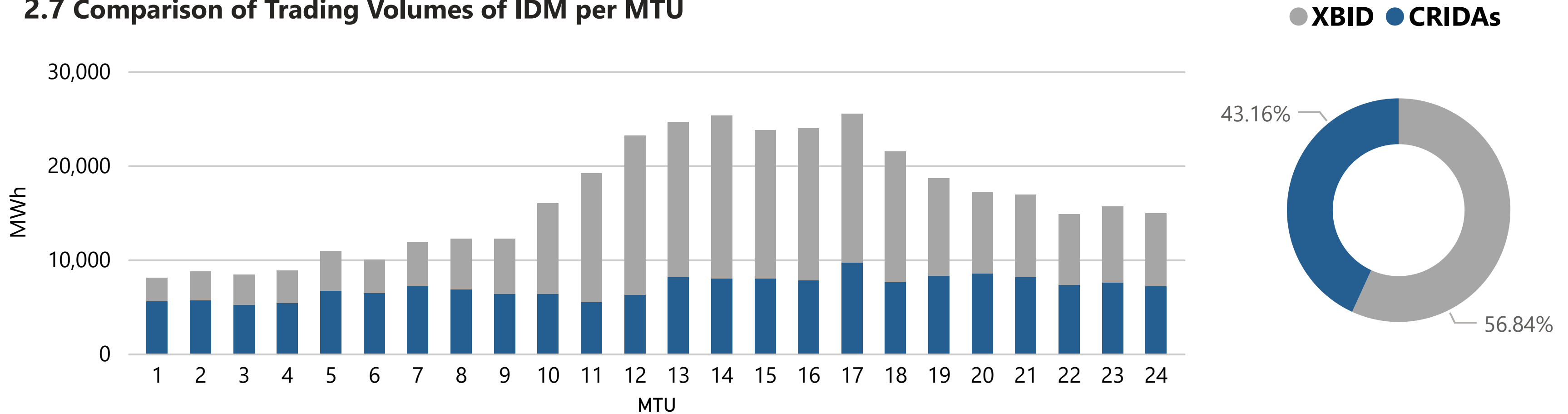




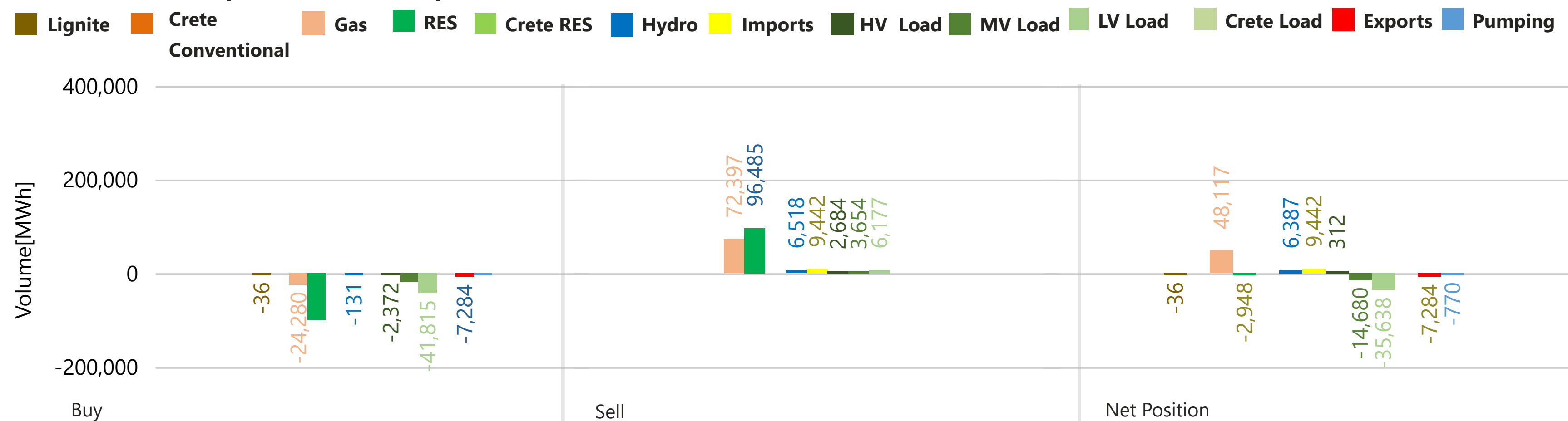
## 2.6 Table with MCP and volume

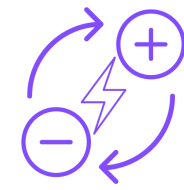
Year			2023	2023	2023	2023	2023	2023	2023	2023	2024	2024	2024	2024
Month			May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
CRIDA1	Price [€/MWh]	min	-0.01	3.29	0	-1	-1	0	0.04	2.01	11.20	10.21	-2	-500
		avg	105.18	90.52	111.40	103.26	99.93	109.27	106.54	100.63	92.56	73.45	66.80	57.26
		max	2.95K	190.92	300	404.90	342.17	400	400	218.11	188.96	132.40	160	147.79
	Volume [MWh]	45,131	31,612	58,530	57,680	54,474	45,751	38,874	52,104	46,408	32,521	31,167	33,003	
CRIDA2	Price [€/MWh]	min	-4.18	0.14	-2.50	-25.51	-4	-8	-2.30	-3.96	23.11	7.41	0	-499.61
		avg	96.24	89.23	107.55	100.36	97.19	105.15	105.14	97.73	92.65	72.52	66.69	58.13
		max	190	400	415.82	571.54	331.27	415	490	254.61	177.94	133	165	162.45
	Volume [MWh]	60,218	43,967	46,690	37,297	45,738	41,353	29,557	41,847	43,150	35,661	34,274	33,383	
CRIDA3	Price [€/MWh]	min	0.03	0.5	-3	0	0	0	0.99	0.38	12.10	9.55	-0.01	-0.51
		avg	92.49	104.72	126.30	117.56	100.78	113.33	117.35	105.05	97.61	73.75	71.90	60.95
		max	200	262.89	300	521.10	341.19	359.14	401.58	400	175.15	155.10	170.58	170
	Volume [MWh]	38,300	22,771	22,664	33,656	26,300	20,845	15,135	23,691	24,962	19,003	22,333	18,177	
XBID	Price [€/MWh]	min	-32	-38	-21.10	-80	-23.12	-20	-2	-11.01	-7.30	-10	-19	-50
		VWAP	90.19	86.88	96.19	94.85	92.55	96.37	95.34	94.10	92.74	72.01	65.81	49.70
		max	209.52	251	425.82	446	360	894	350	230	224.64	170	169.39	200
	AV.Volume [MWh]	348,346	312,678	398,199	365,551	310,182	288,476	297,555	311,840	156,496	116,407	120,668	111,346	

## 2.7 Comparison of Trading Volumes of IDM per MTU



## 2.8 Volume mix per side and net position for IDM





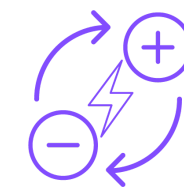
### 3. DAM & IDM · Aggregated Overview

**Final Market Schedules**

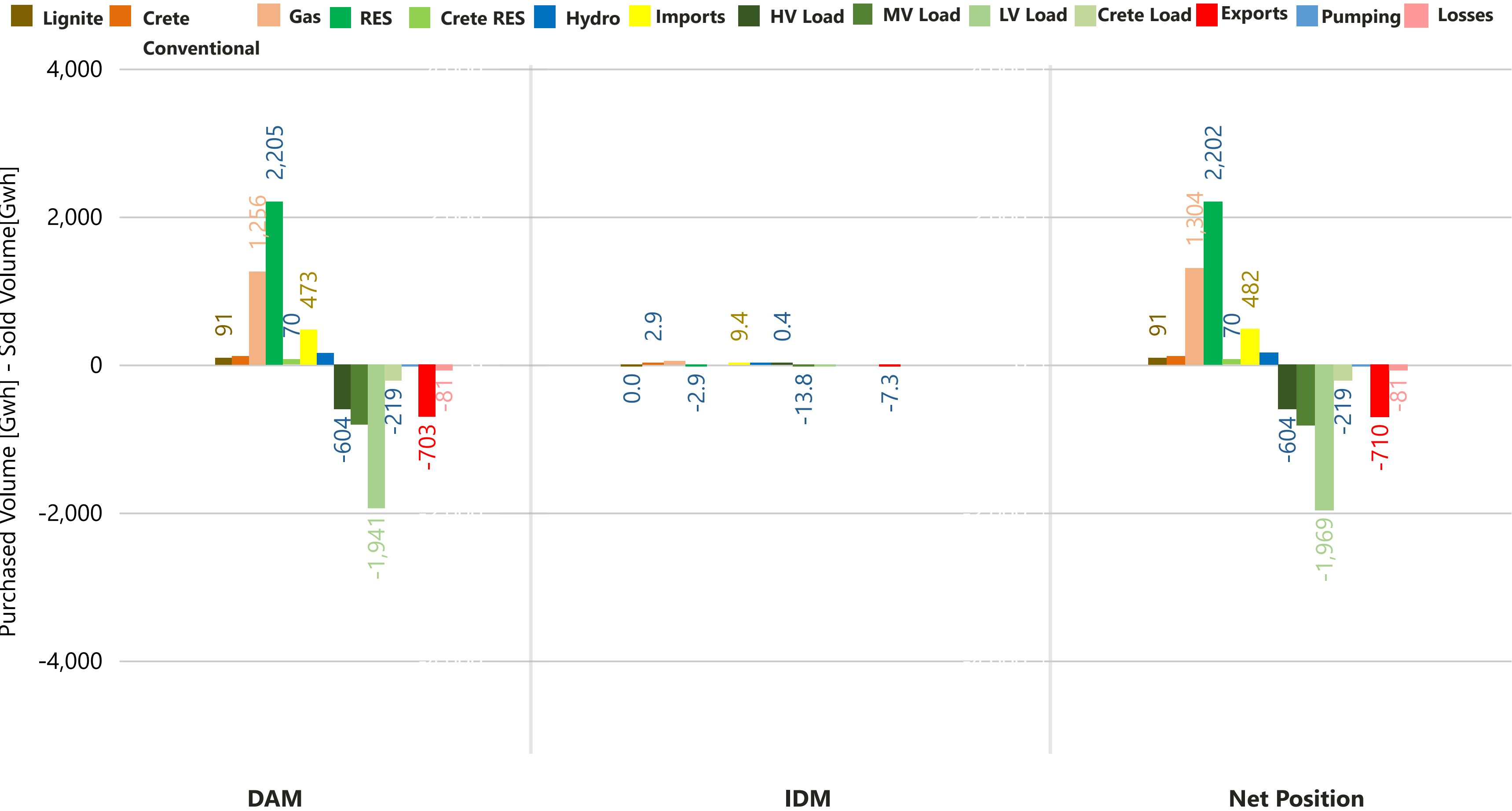
**Domestic Production**

**Domestic Consumption**

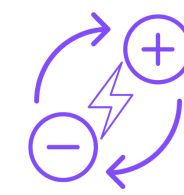
**Domestic Consumption per Voltage level**



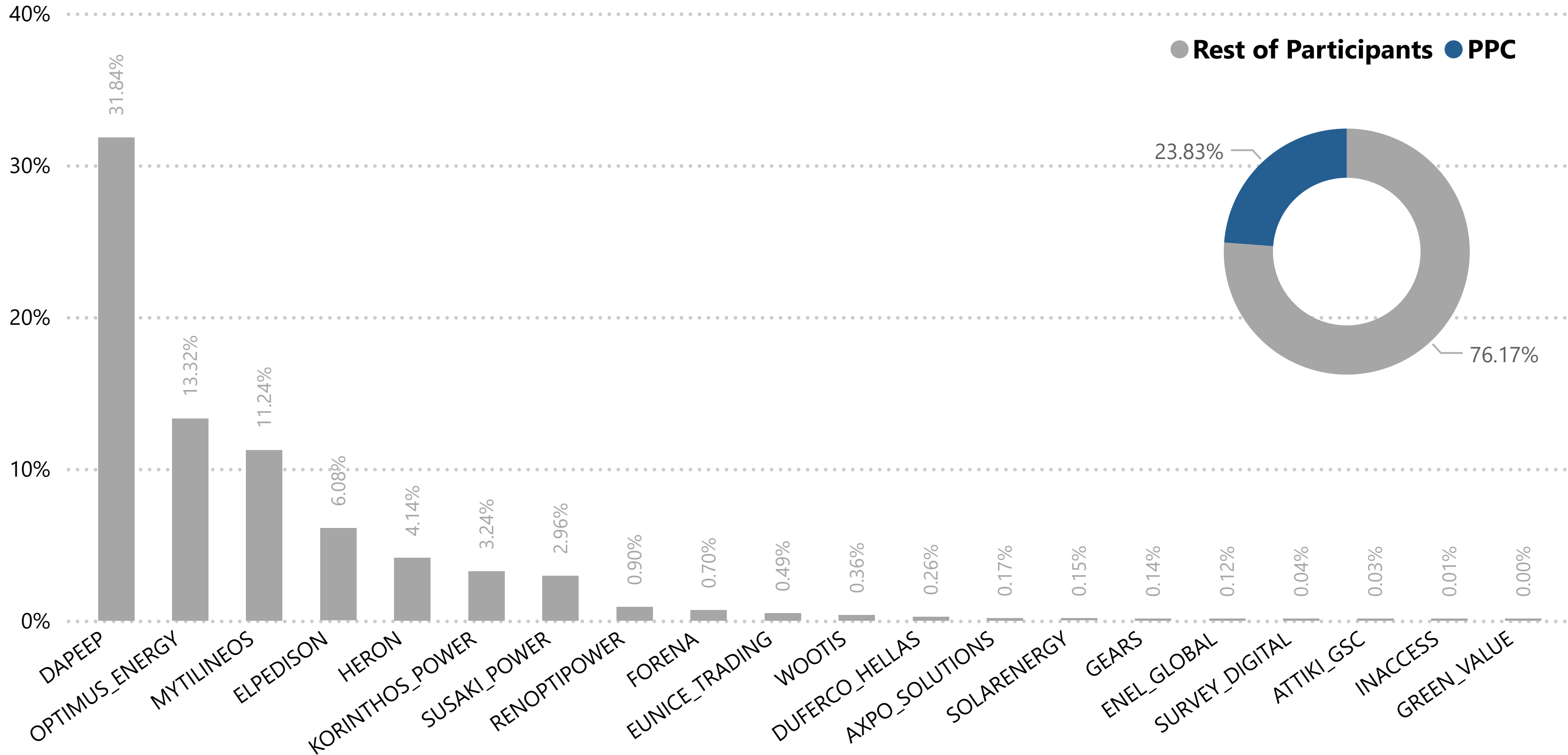
## 3.1 Market Schedules

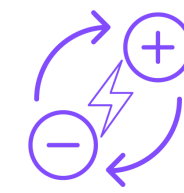




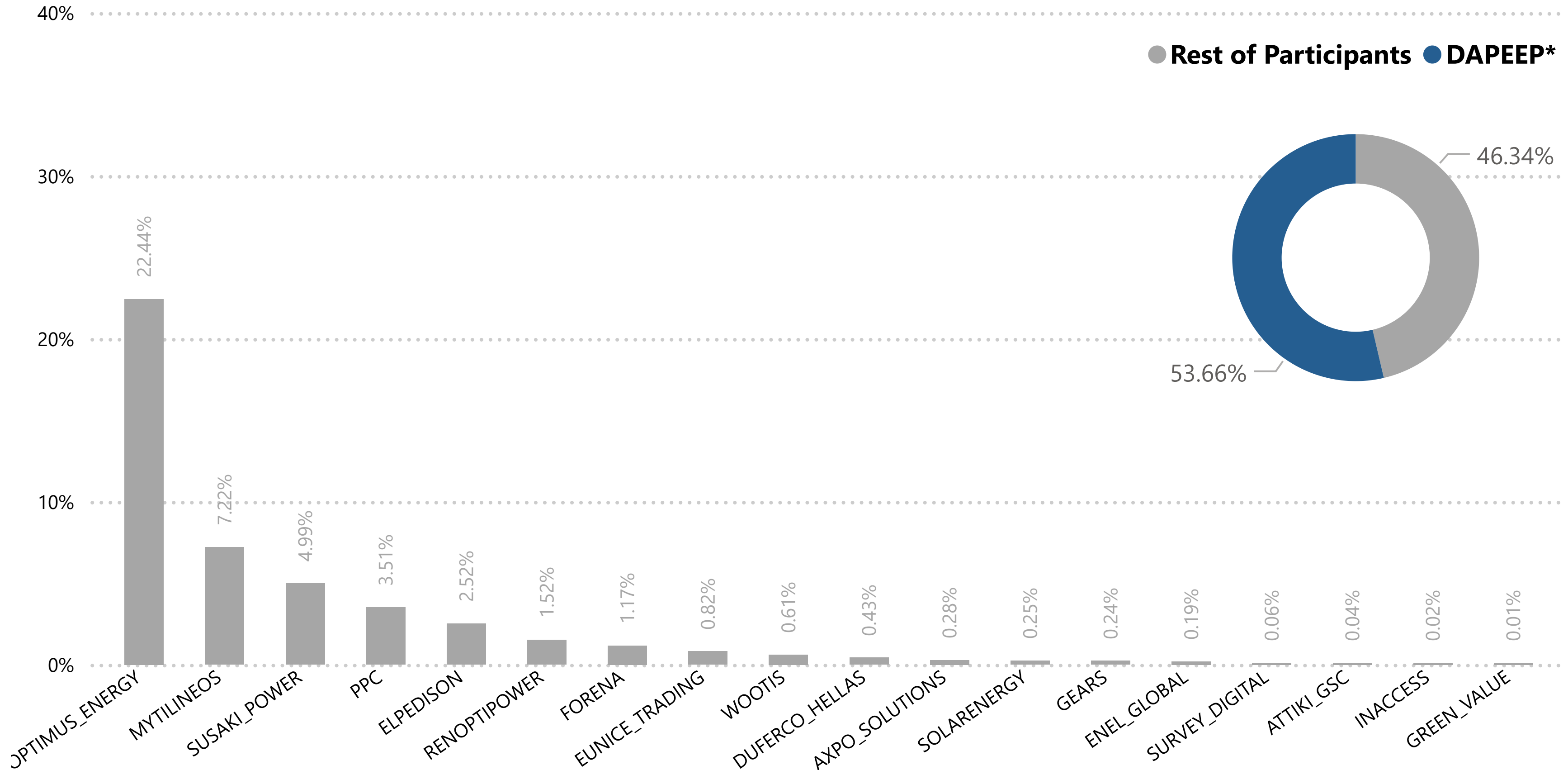


## 3.2 Final Market Schedule shares for all production units per Market Participant · Greek Bidding Zone

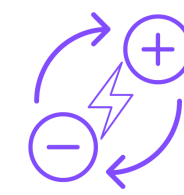




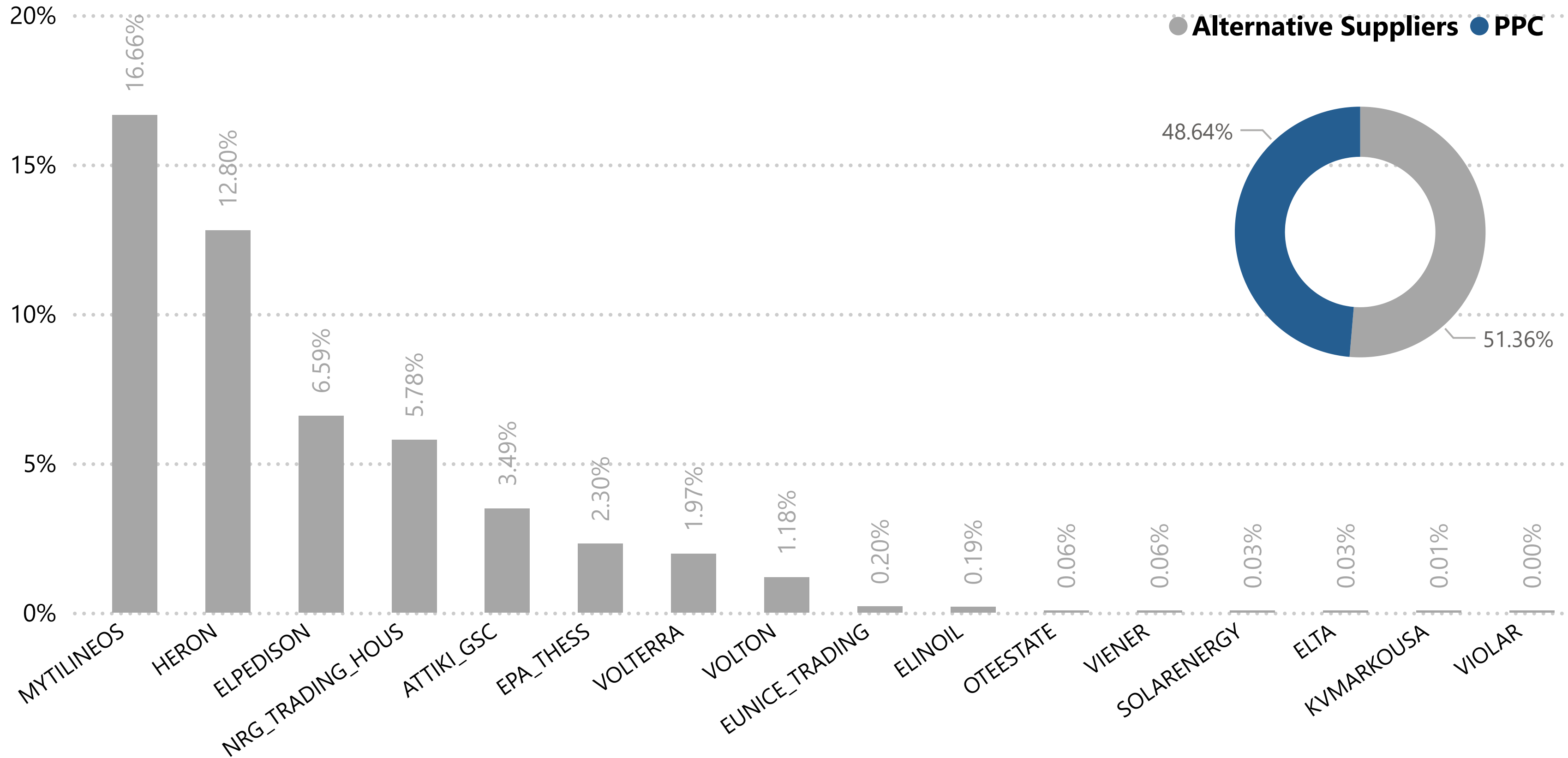
## 3.3 Final Market Schedule shares for RES production units per Market Participant · Greek Bidding Zone

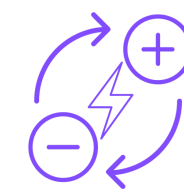


\*The percentage of DAPEEP includes 0.30% its role as a Last Resort RES Aggregator (FOSETEK)

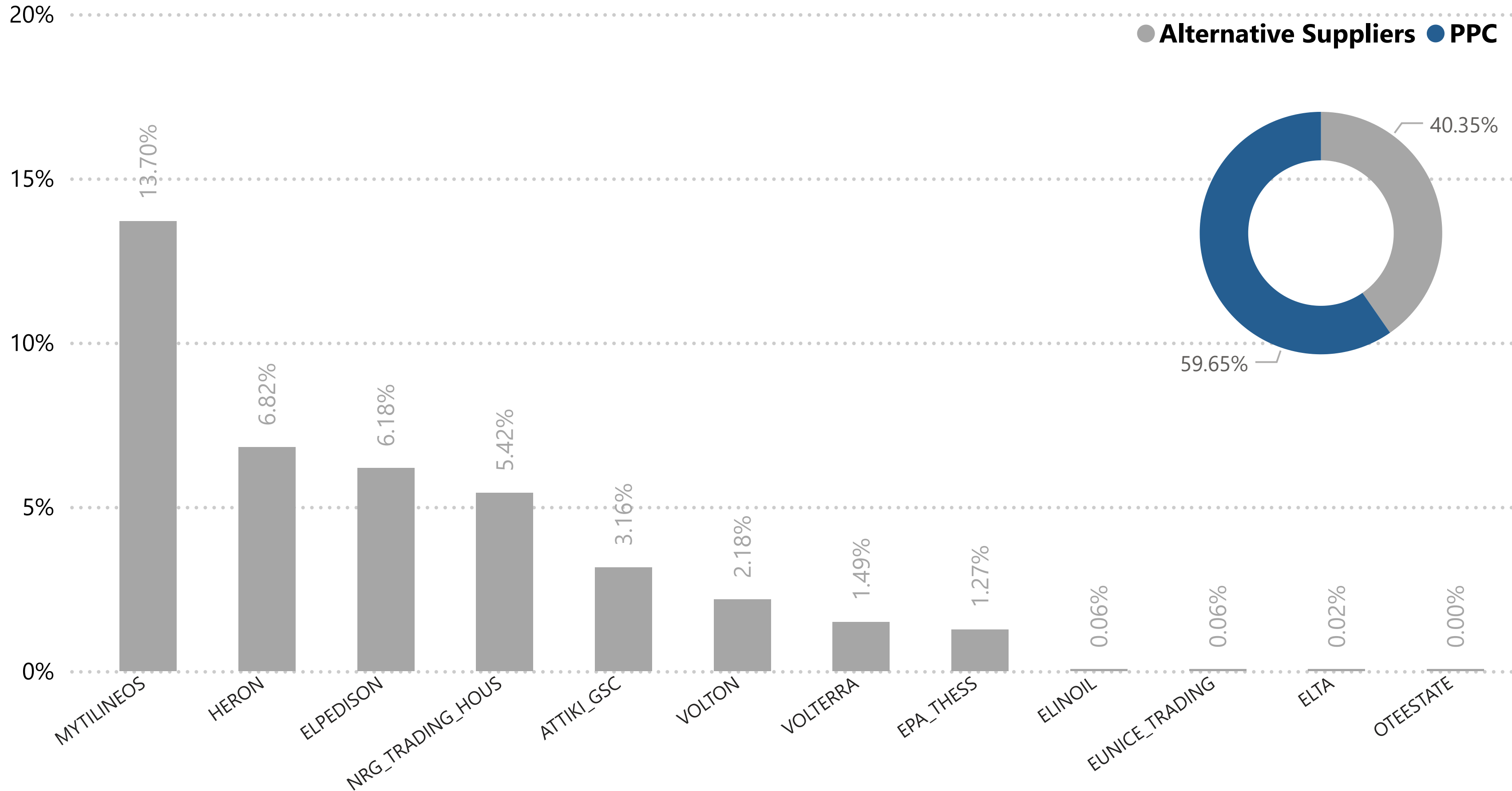


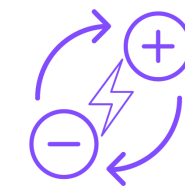
## 3.4 Final Market Schedule shares for domestic load per Market Participant · Mainland



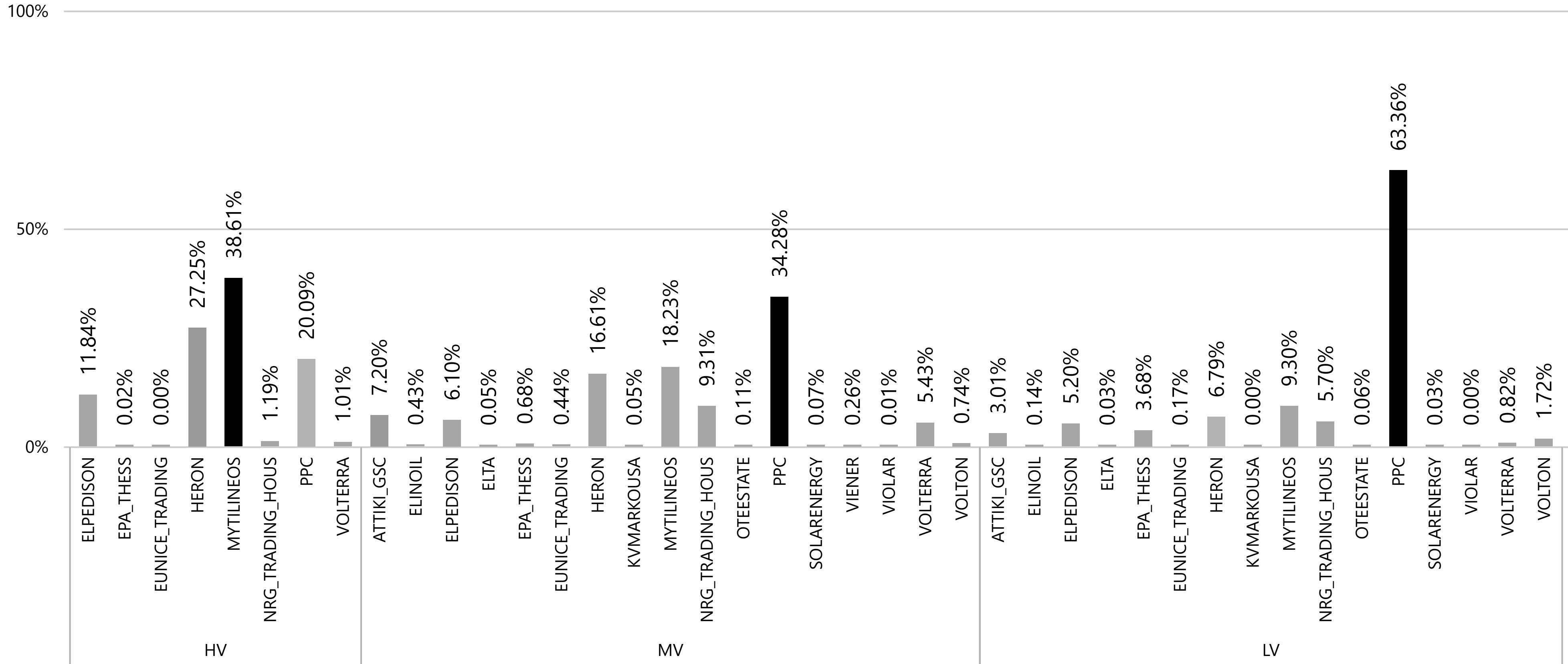


## 3.5 Final Market Schedule shares for domestic load per Market Participant · Crete

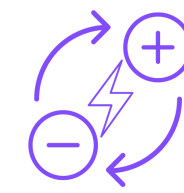




## 3.6 Final Market Schedule shares for domestic load per Market Participant at each Voltage Level · Mainland

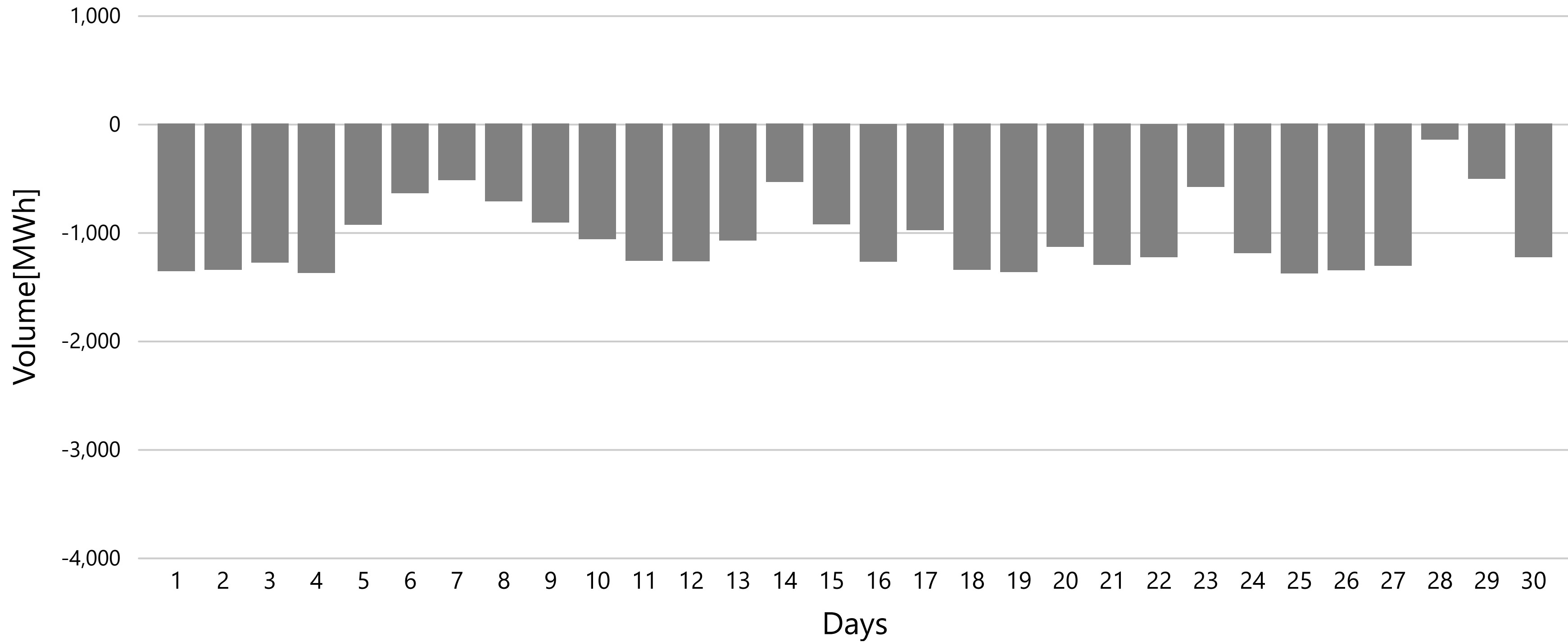






### 3.7 Energy flow between Greece Mainland and Crete

Interconnection with Crete\*



\*The positive figures represent energy flow from Crete to Greece mainland while negative figures represent energy flow from Greece mainland to Crete



## 4. Natural Gas Trading Hub

**HEnEX NGAS Indices**

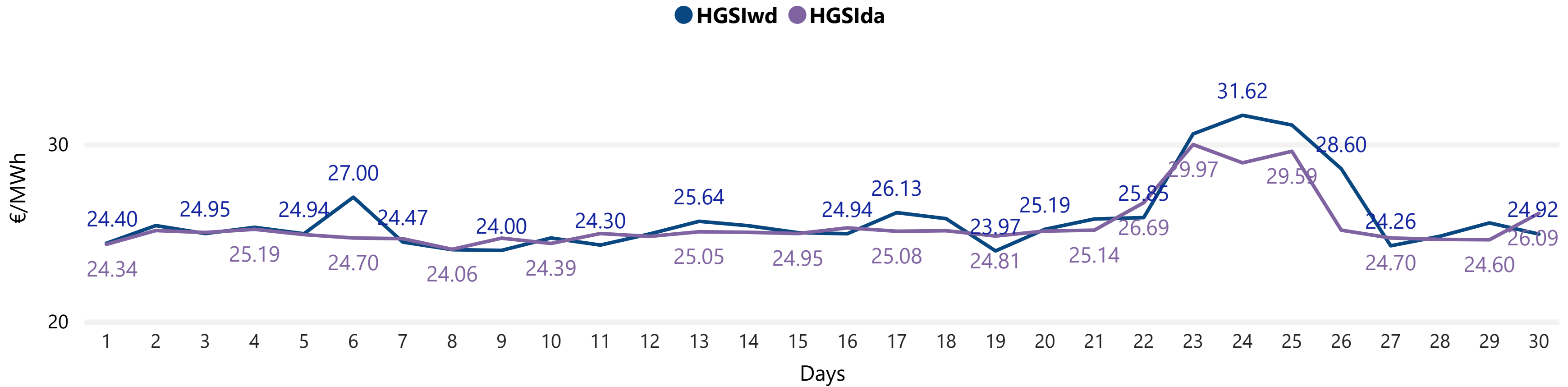
**Trading Volume per Trading Date**

**Trading Volume per Product, Session**

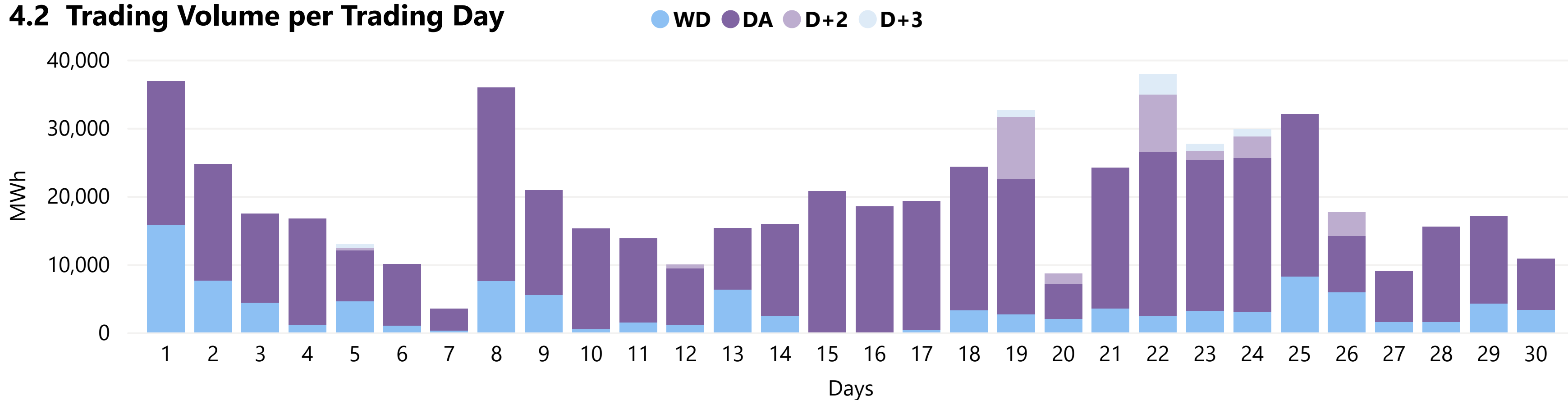
**Closing, Min & Max Prices**



### 4.1 HEnEx NGAS indices

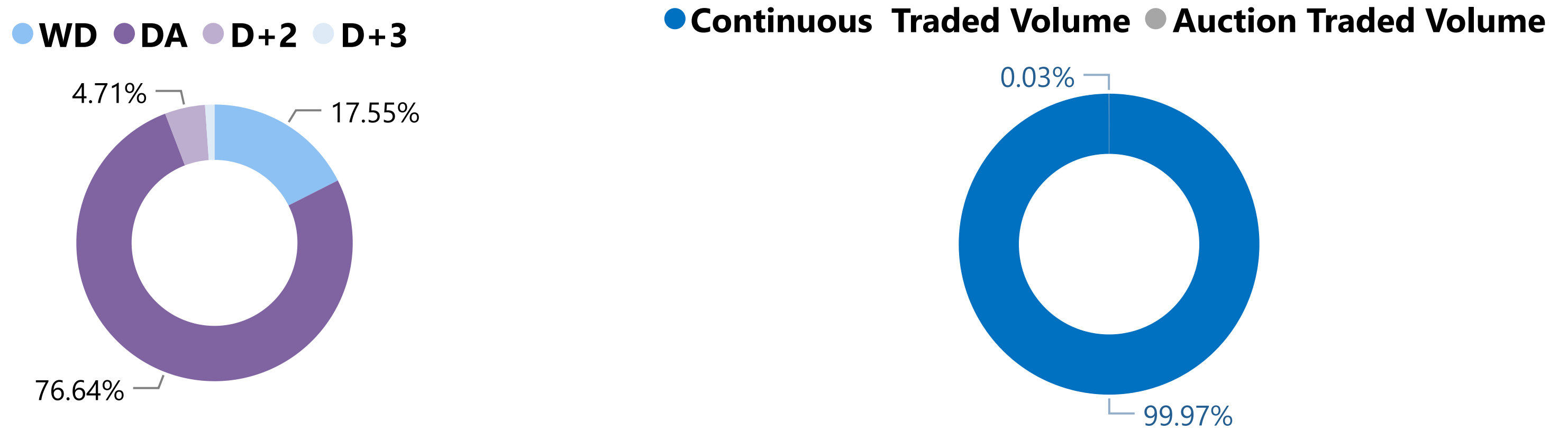


### 4.2 Trading Volume per Trading Day

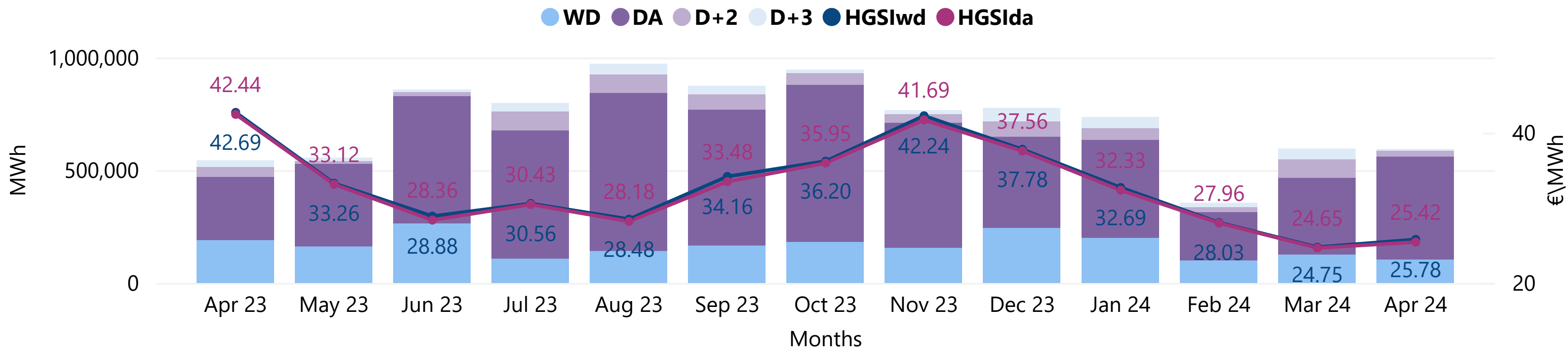




## 4.3 Trading Volume per Product & Session

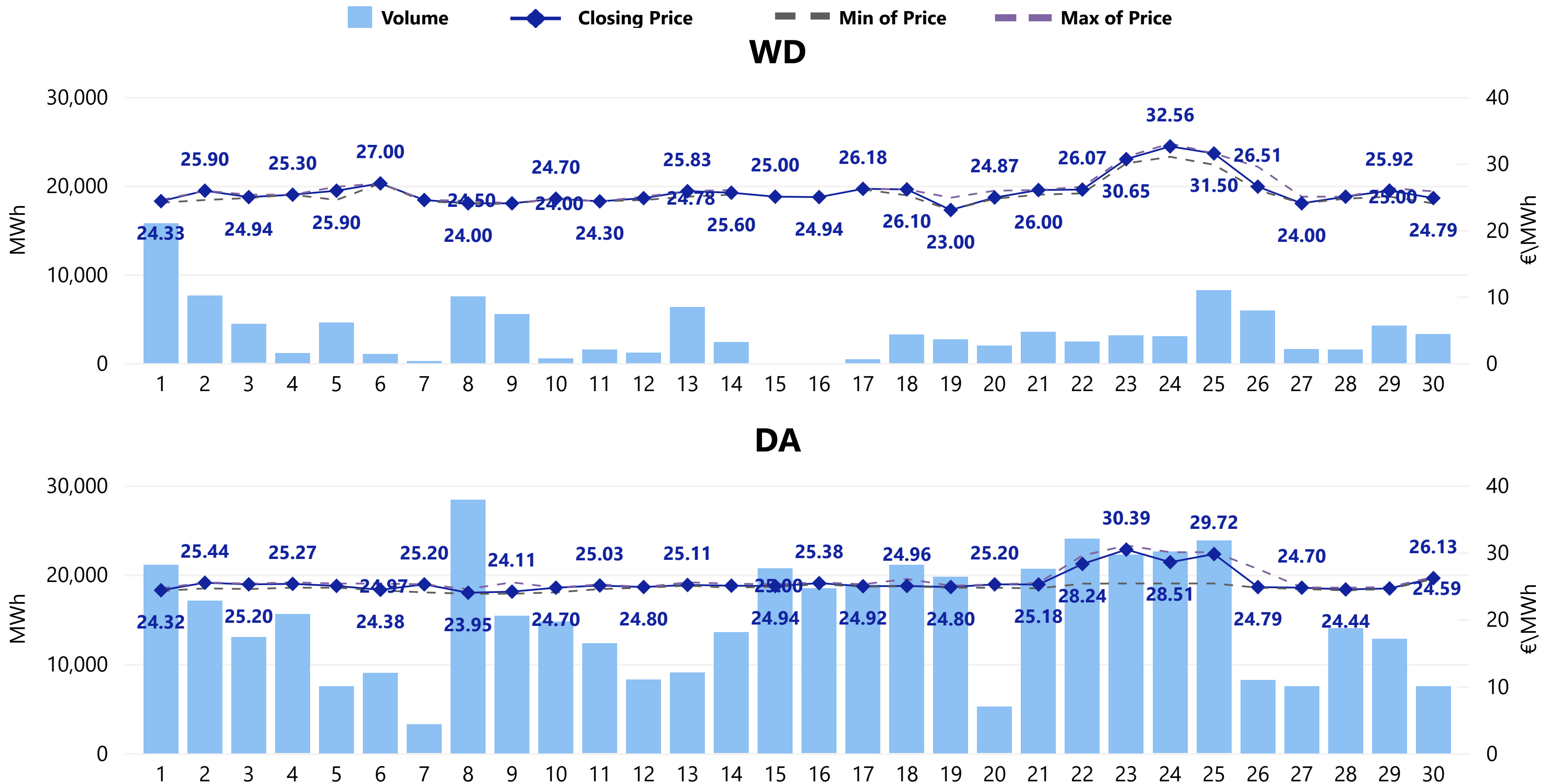


## 4.4 HEnEX NGAS indices and Trading Volume per Month





## 4.5 Volume, Closing, Min, & Max Prices per Trading Day & Product



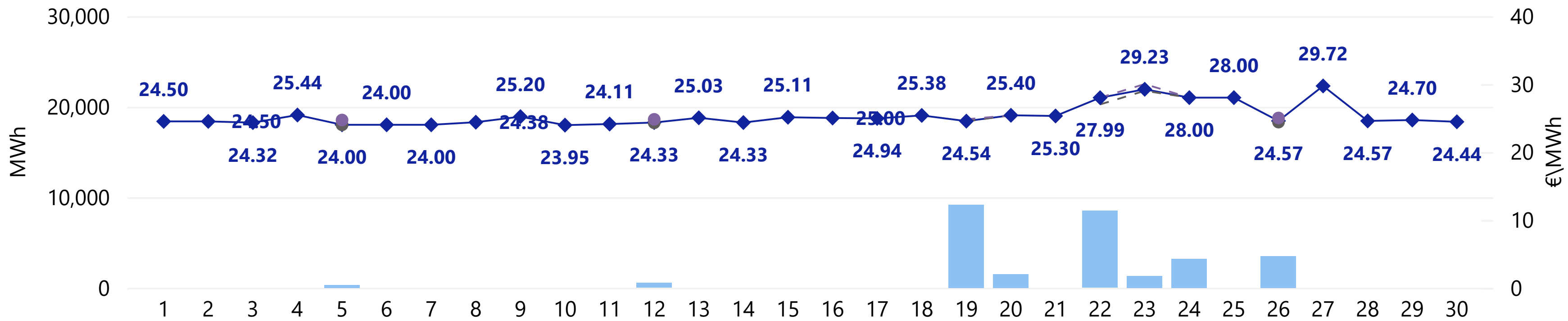




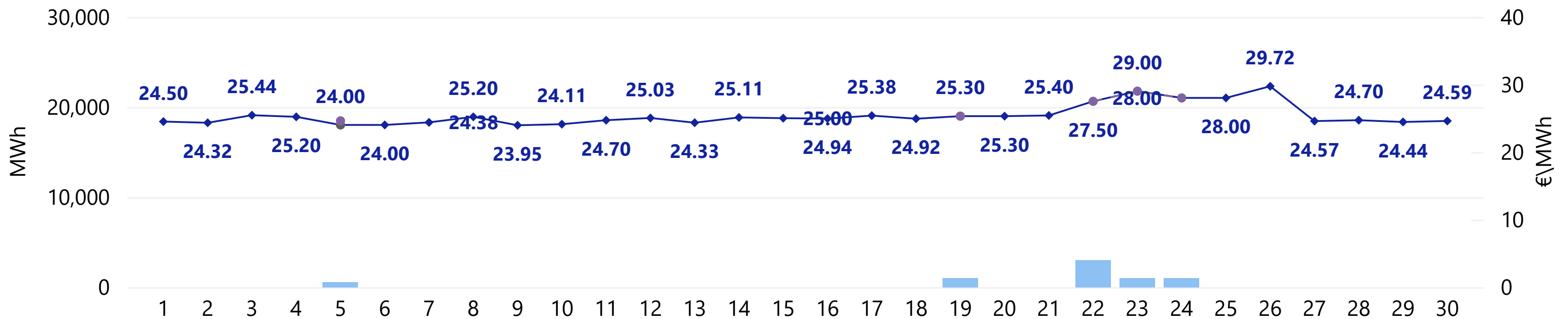
## 4.5 Volume, Closing, Min, & Max Prices per Trading Day & Product

■ Volume    
 ◆ Closing Price    
 — Min of Price    
 — Max of Price

**D+2**



**D+3**



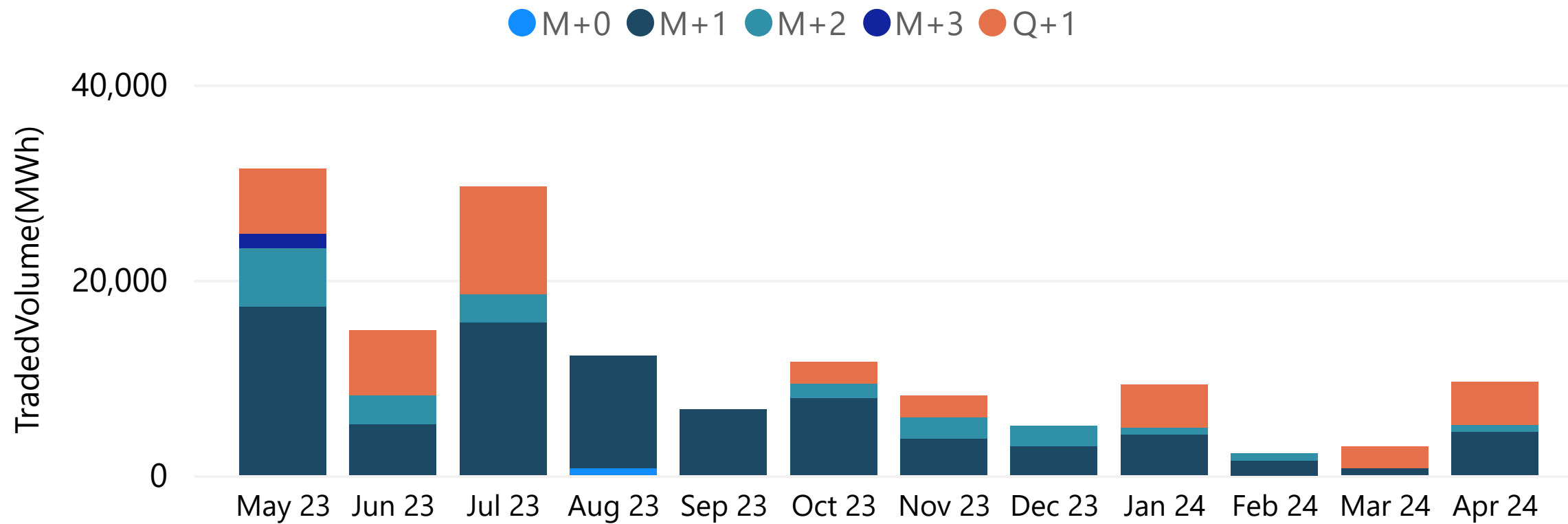
## 5. Derivatives Market

**Traded Volume by Instrument and Month - Baseload**

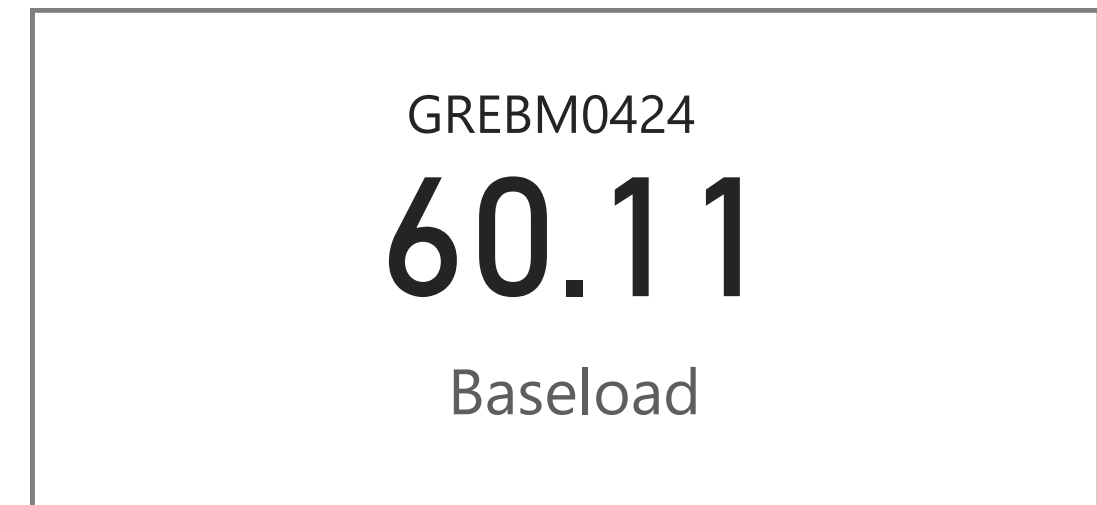
**Daily Settlement prices for Baseload Instruments - Baseload**

**Final Settlement prices for the monthly expired traded series**

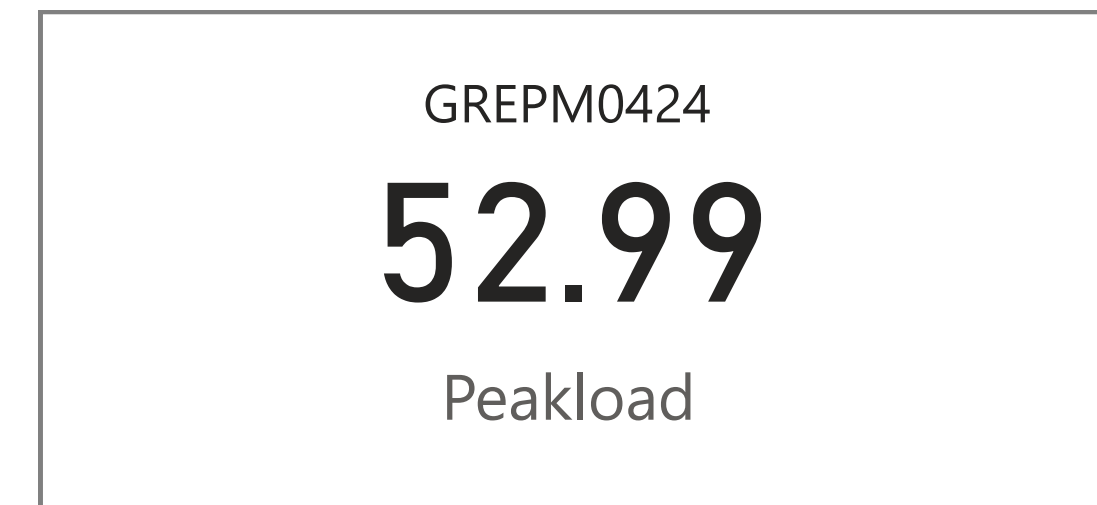
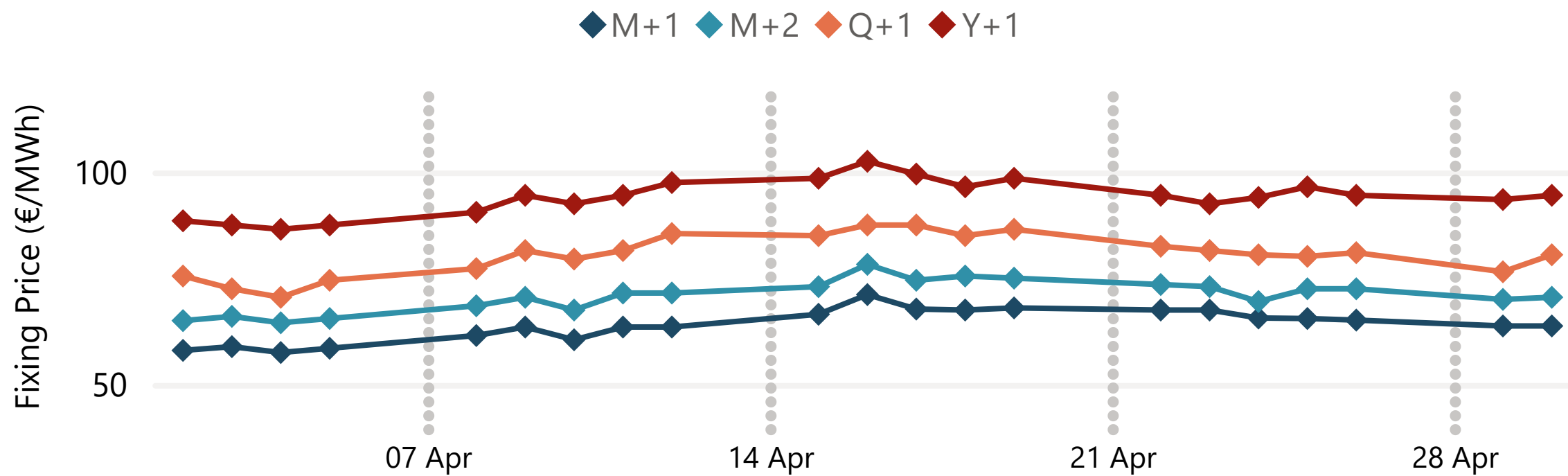
## 5.1 Traded Volume by Instrument and Month - Baseload



## 5.3 Final Settlement prices for the monthly expired traded series



## 5.2 Daily Fixing Prices - Baseload





## 6. Annex

### Definitions

ACRONYM	Definition
GR BZ	Greek Bidding Zone
MCP	Market Clearing Price
NTC	Net Transfer Capacity

### Data Sources

#### Figure 1.6

- Data source for MCP of Italy: <http://www.mercatoelettrico.org/En/Download/DatiStorici.aspx>
- Data source for MCP of Bulgaria: <http://www.ibex.bg/en/market-data/dam/prices-and-volumes/#data-table>



## Market Details

- Market Time Units of GR BZ are in CET-hr.
- Intraday Market of GR BZ consists of three Complementary Regional IntraDay Auctions (CRIDAs) and one continuous (XBID).
- The Hybrid Model for the operation of the Small Connected System (SCS) market of Crete was launched on Delivery Day 01/11/2021.
- Mainland refers to the interconnected system excluding Crete.

## Changes on Figures

### Figure 3.6

- From January 2022, Figure 3.6 changed from “Final Market Schedules shares for domestic load per Voltage Level and Market Participant · Mainland” to “Final Market Schedules shares for domestic load per Market Participant at each Voltage Level · Mainland”. The reported figures were amended respectively.



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