



Monthly Report
January 2024

**Electricity &
NGAS Markets**





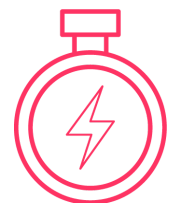
Summary

1



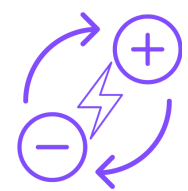
DAM

3



IDM

19



DAM&IDM

25



Natural Gas
Trading Platform

33



Derivatives

38



Annex

40

Summary

Jan 2024
Dec 2023
Jan 2023

DAM

CRIDA1

CRIDA2

CRIDA3

XBID*

NGAS*



€/MWh

93.02	92.56	92.65	97.61	92.74	31.97
102.20	100.63	97.73	105.05	94.10	37.58
191.79	191.07	173.21	180.25	109.69	74.41



GWh

5,195	46.4	43.2	25.0	156.50	735.97
4,642	52.1	41.8	23.7	311.8	776.7
4,188	32.0	44.4	33.4	261.9	607.1



M €

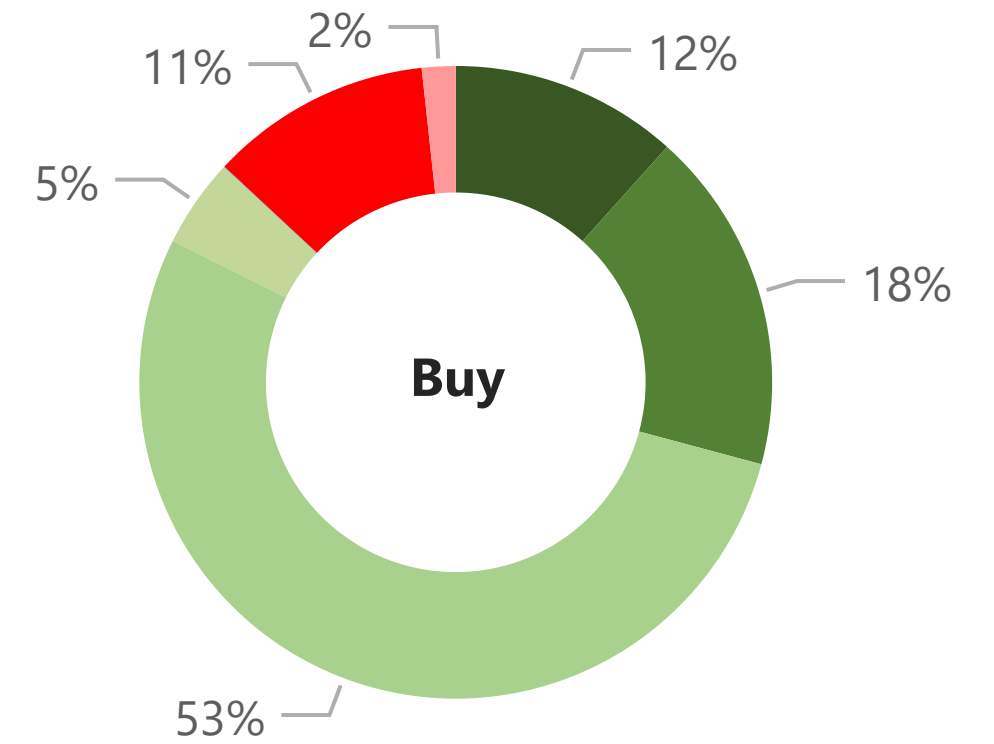
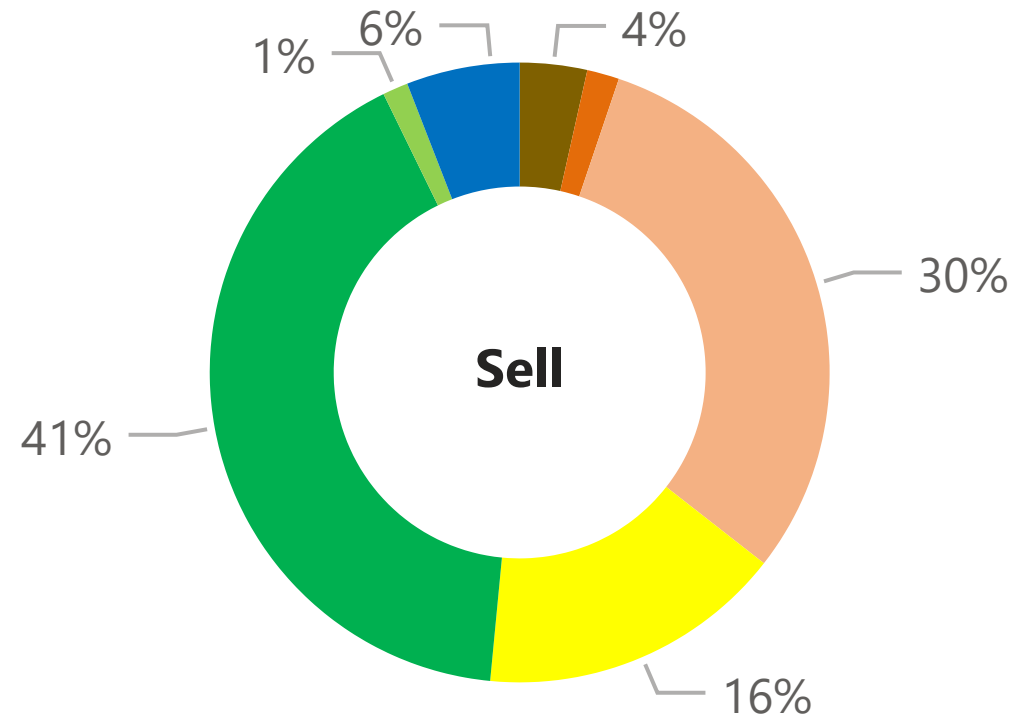
495.3	4.57	4.17	2.45	14.51	23.53
485.5	5.77	4.28	2.58	29.34	29.19
814.90	6.12	7.29	5.68	28.73	45.17

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

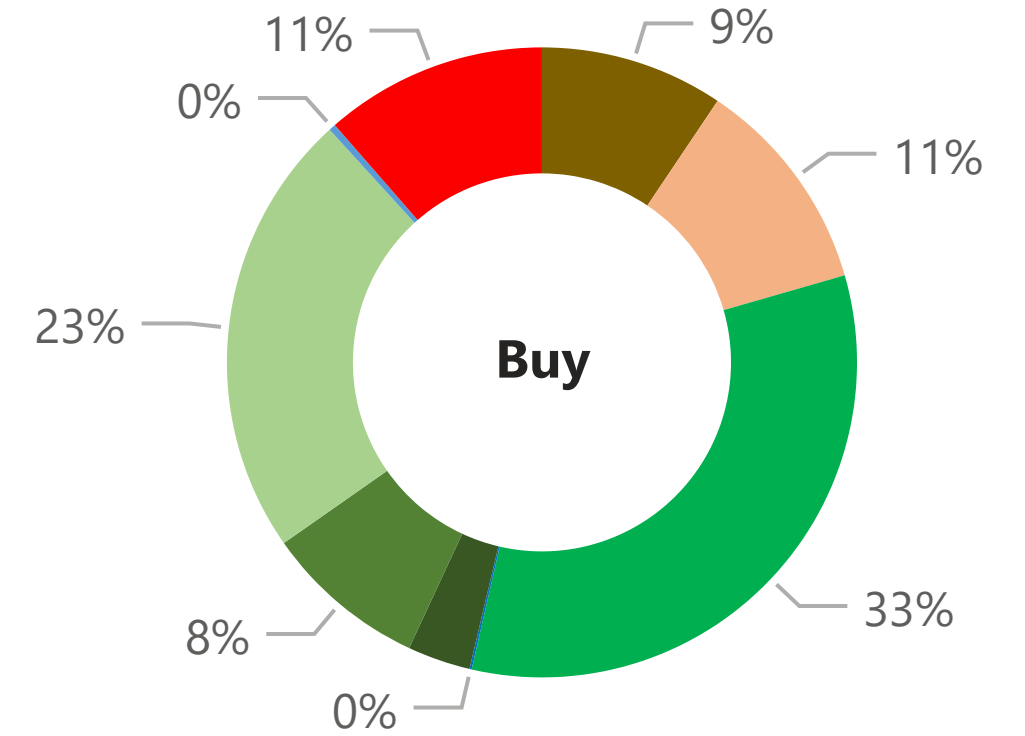
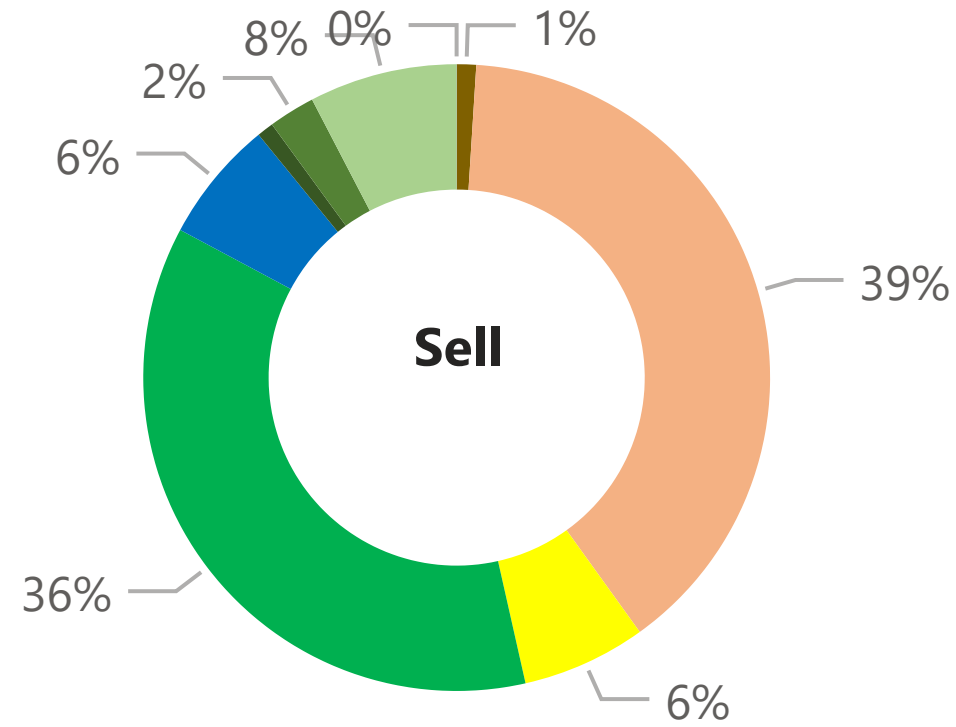
All volumes are one sided. XBID volumes are the average of all sell/buy trades.

Volume mix

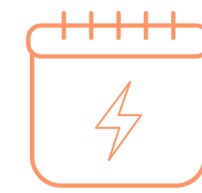
DAM



IDM



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

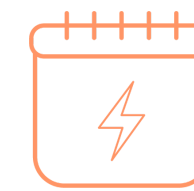


1. DAM

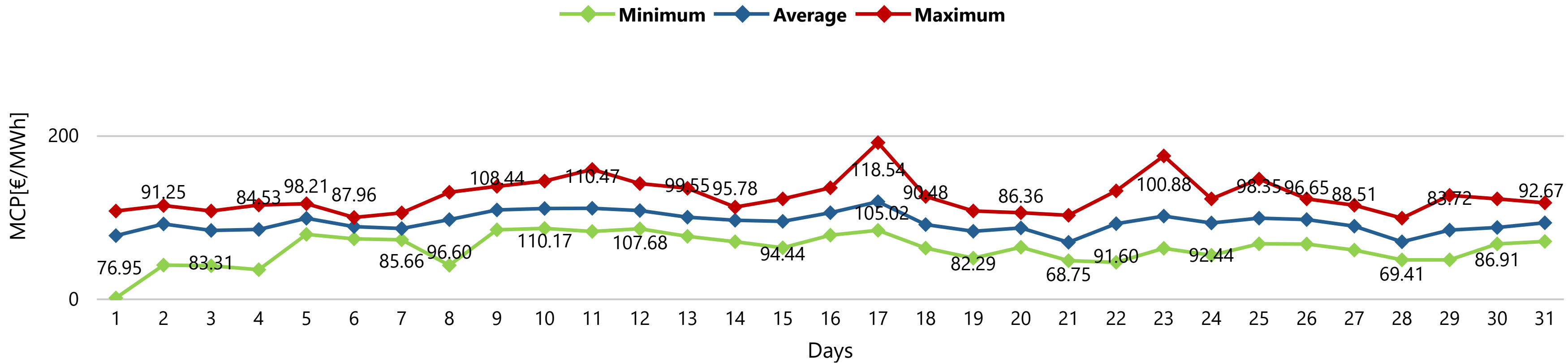
Market Clearing Price (MCP)

Volumes, technologies and order types

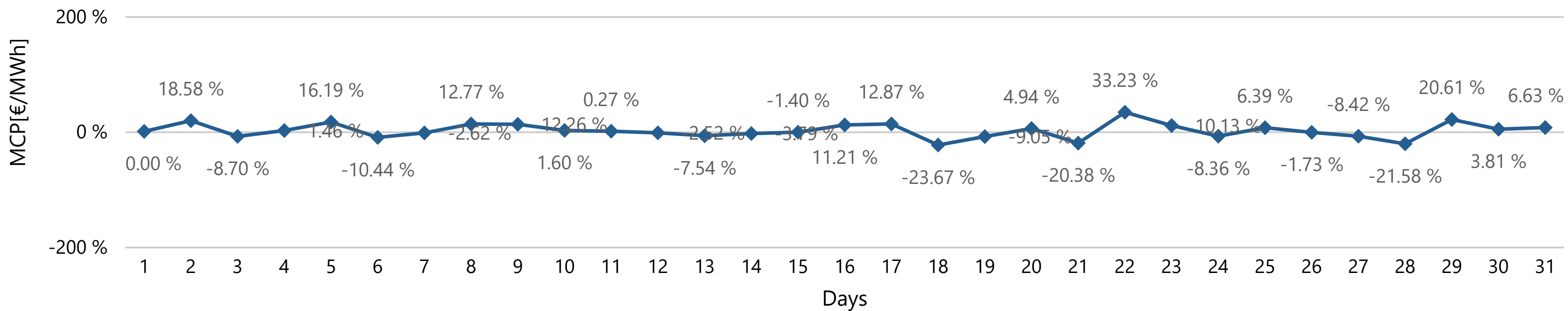
Interconnections

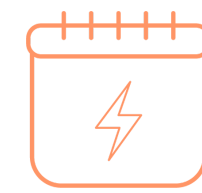


1.1 Daily MCP data of GR BZ

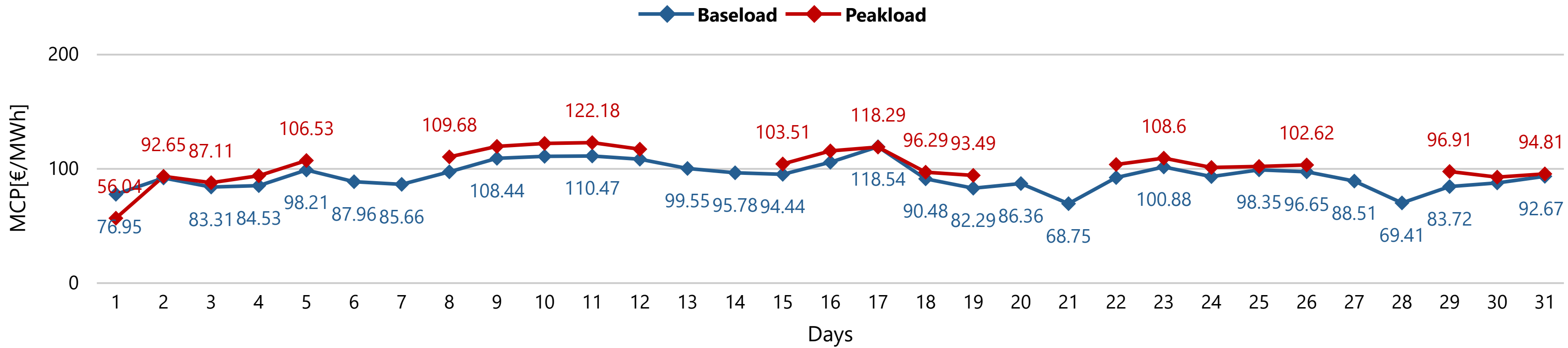


1.2 Daily percentage change in price

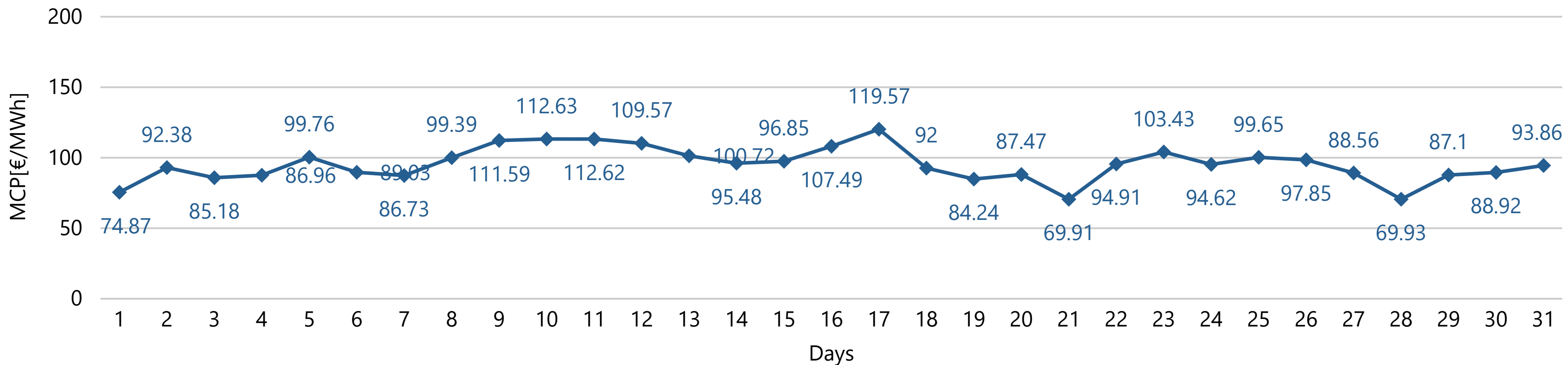


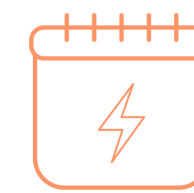


1.3 Daily average prices

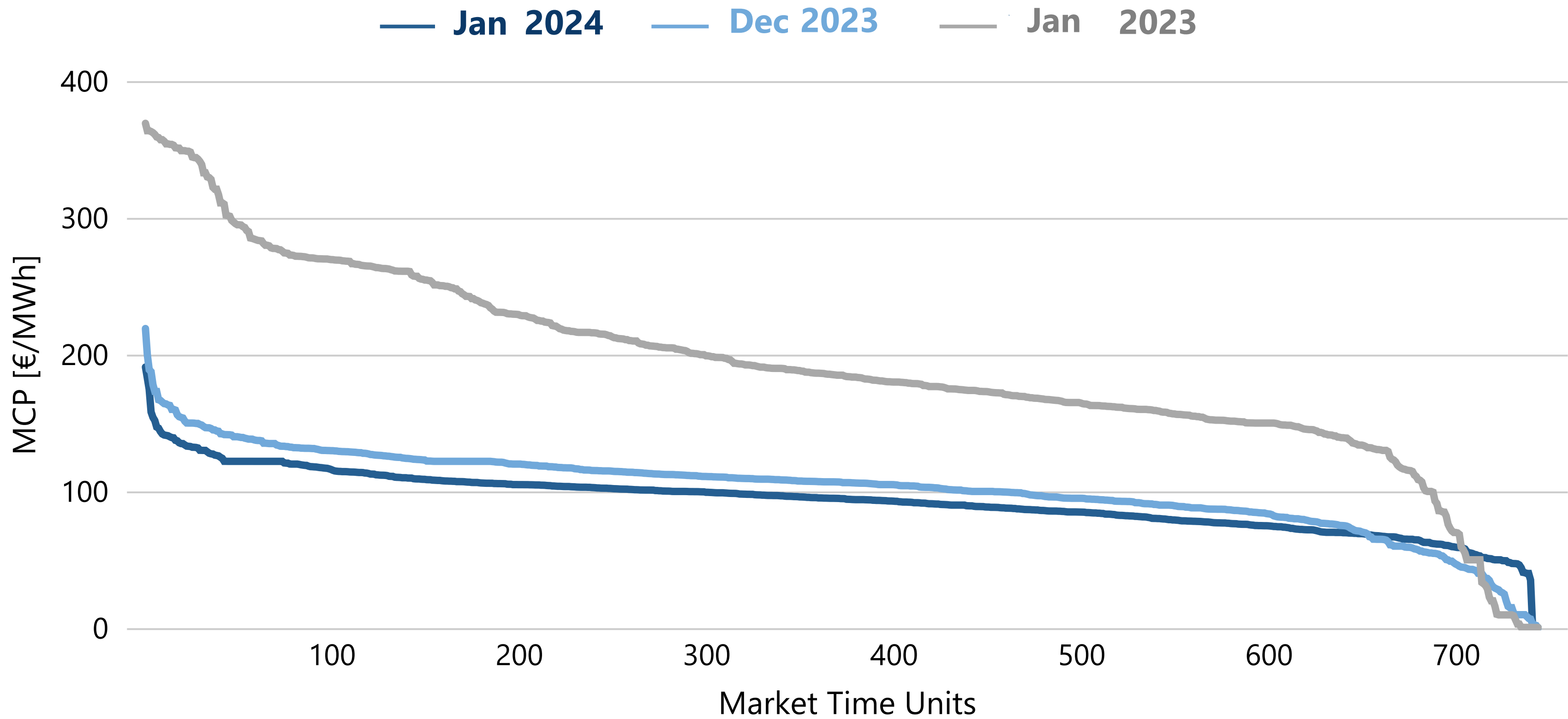


1.4 Daily weighted average baseload price



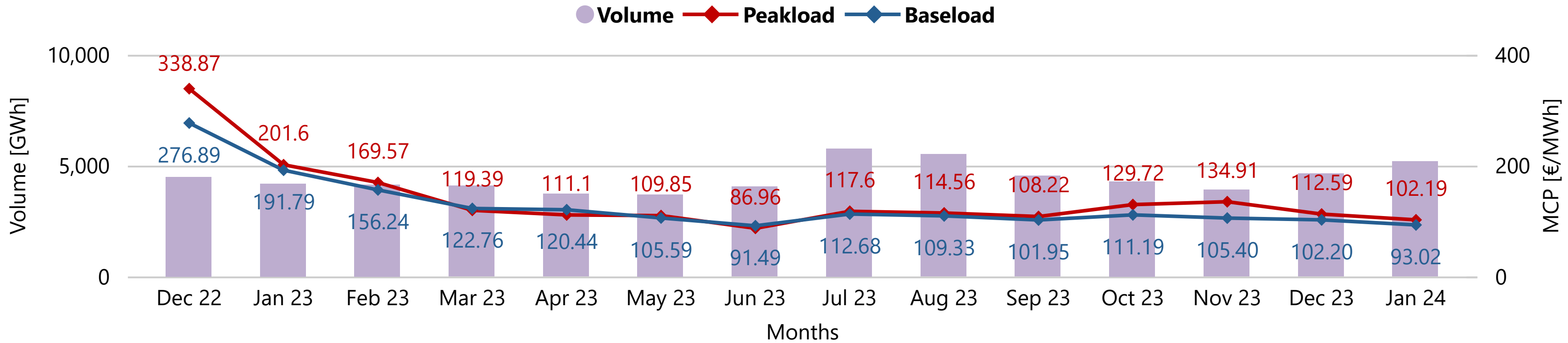


1.5 MCP duration curve

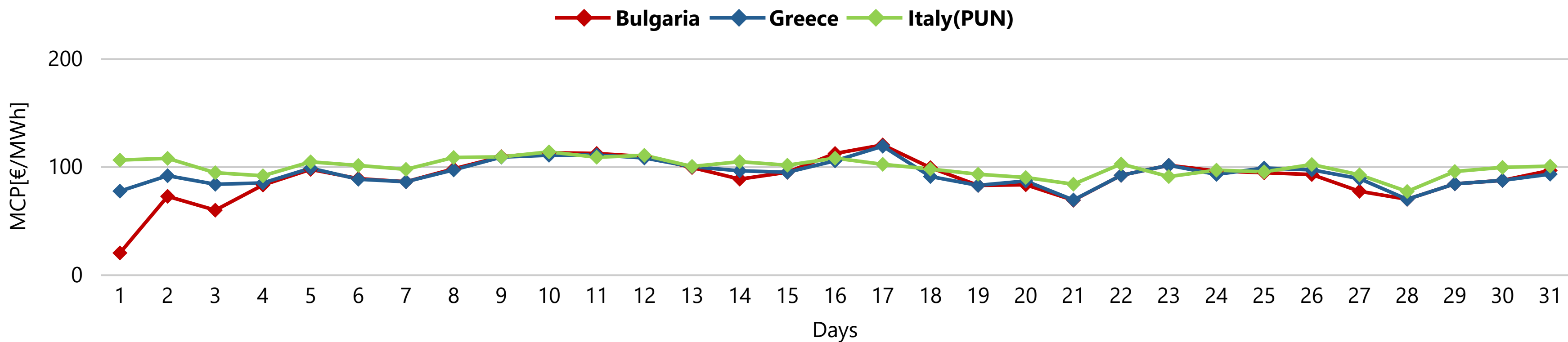


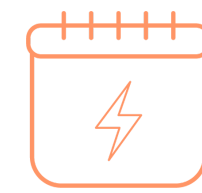


1.6 Monthly volume and average prices



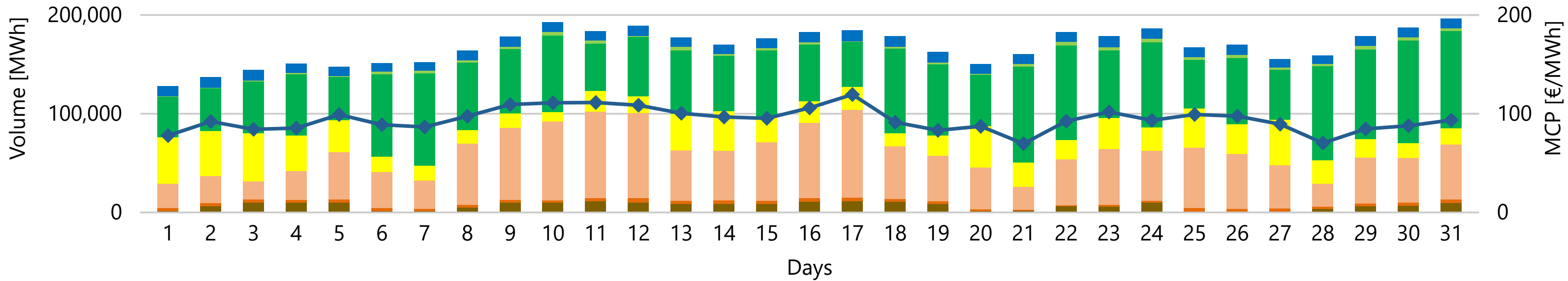
1.7 Daily average MCP of GR, IT, BG





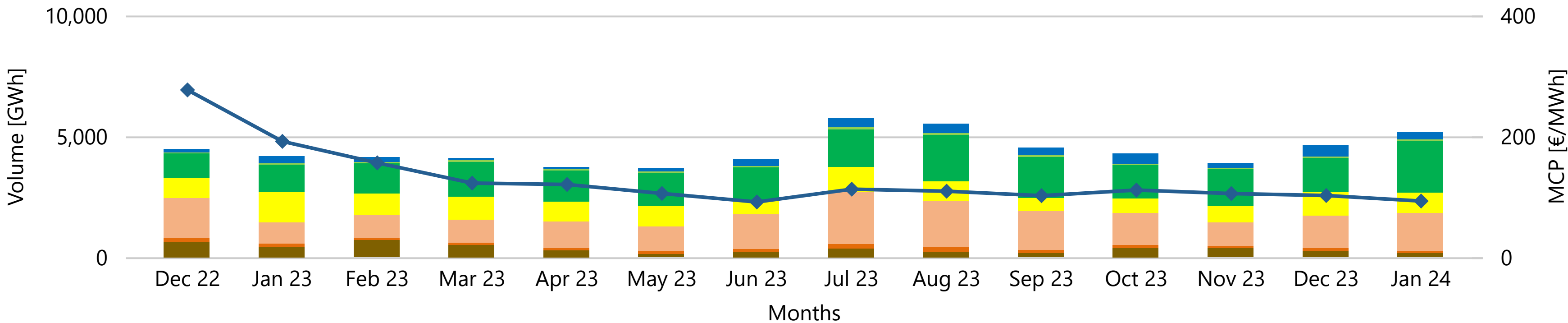
1.8 Volume mix of sell side per day

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



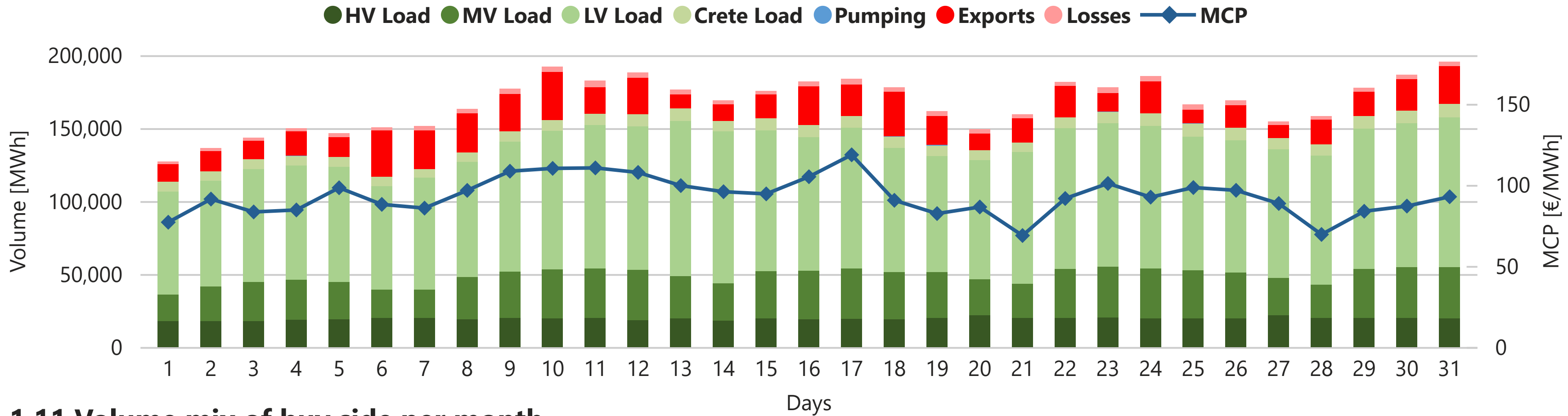
1.9 Volume mix of sell side per month

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

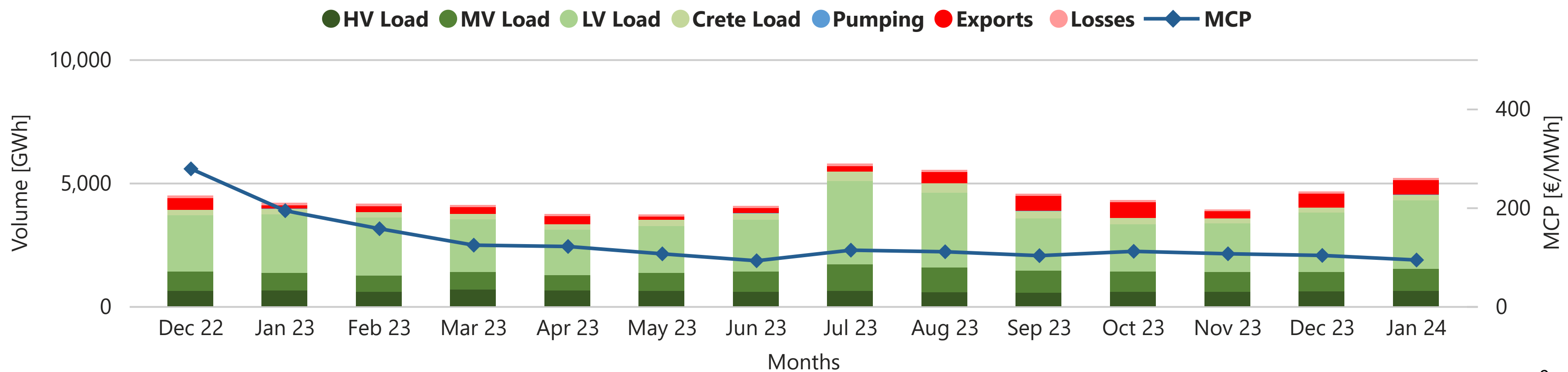


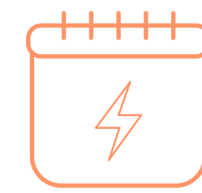


1.10 Volume mix of buy side per day



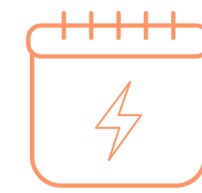
1.11 Volume mix of buy side per month





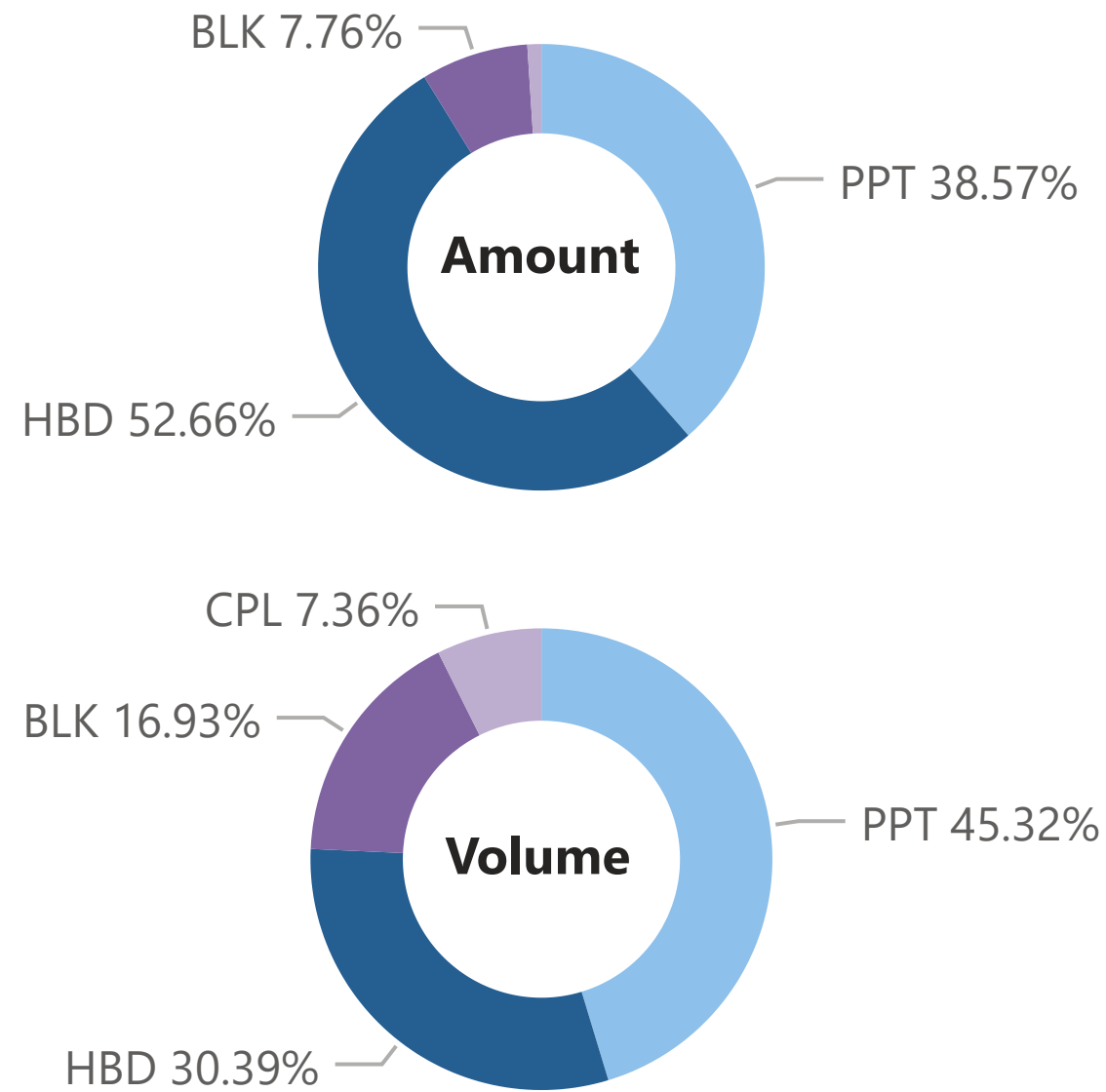
1.12 Table with MCP and volume per month

Year	Month	Minimum MCP[€/MWh]	Average MCP[€/MWh]		Maximum MCP[€/MWh]	Peakload MCP[€/MWh]		Volume [GWh]
2023	January	0.49	191.79	↓ -31%	369.17	201.60	↓ -41%	114,950
2023	February	1.01	156.24	↓ -19%	287.32	169.57	↓ -16%	114,950
2023	March	4.95	122.76	↓ -21%	224.29	119.39	↓ -30%	114,950
2023	April	0.18	120.44	↘ -2%	211.00	111.10	↘ -7%	114,950
2023	May	0.00	105.59	↓ -12%	195.07	109.85	↘ -1%	114,950
2023	June	0.02	91.49	↓ -13%	174.99	86.96	↓ -21%	114,950
2023	July	0.00	112.68	↑ 23%	245.30	117.60	↑ 35%	114,950
2023	August	0.00	109.33	↘ -3%	384.82	114.56	↘ -3%	114,950
2023	September	0.00	101.95	↘ -7%	362.17	108.22	↘ -6%	114,950
2023	October	0.00	111.19	↗ 9%	301.15	129.72	↑ 20%	114,950
2023	November	0.00	105.40	↘ -5%	259.96	134.91	↗ 4%	114,950
2023	December	0.04	102.20	↘ -3%	219.11	112.59	↓ -17%	114,950
2024	January	0.54	93.02	↘ -9%	190.96	102.19	↘ -9%	114,950



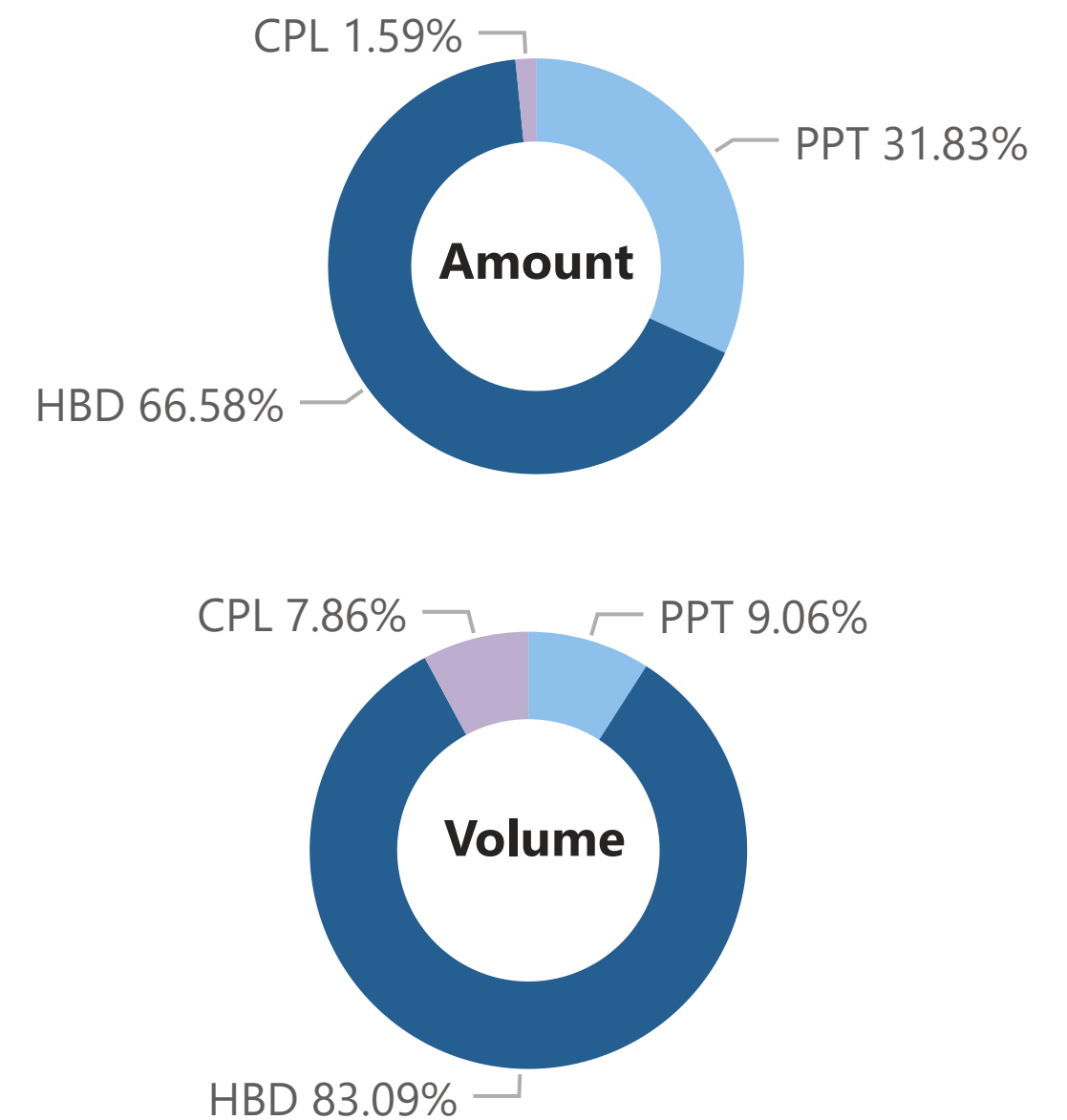
1.13 Trades per Order type

Sell Side

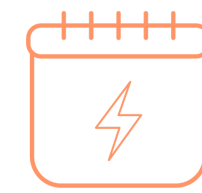


	PPT	HBD	BLK	CPL
Amount	24278	33142	4884	637
Volume [GWh]	2354	1579	879	382

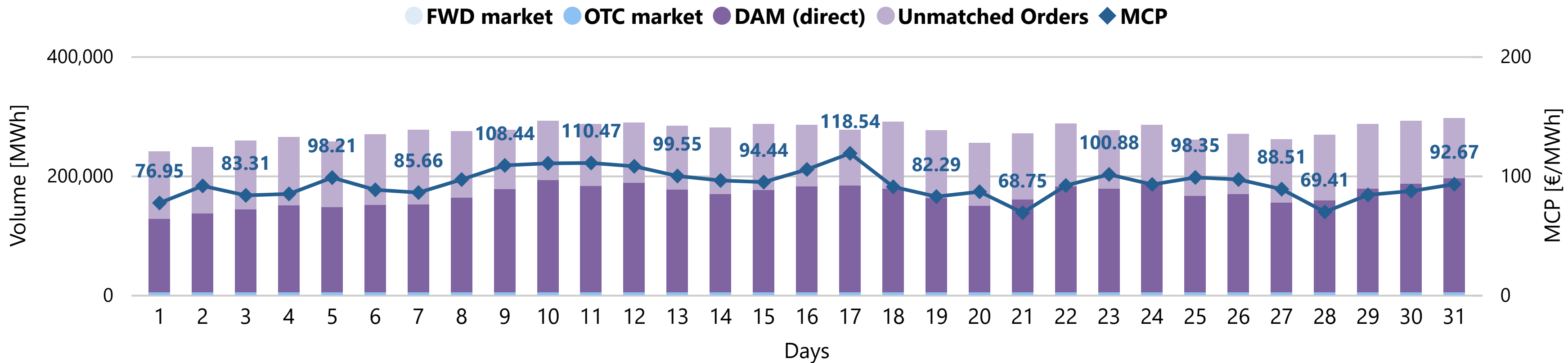
Buy Side



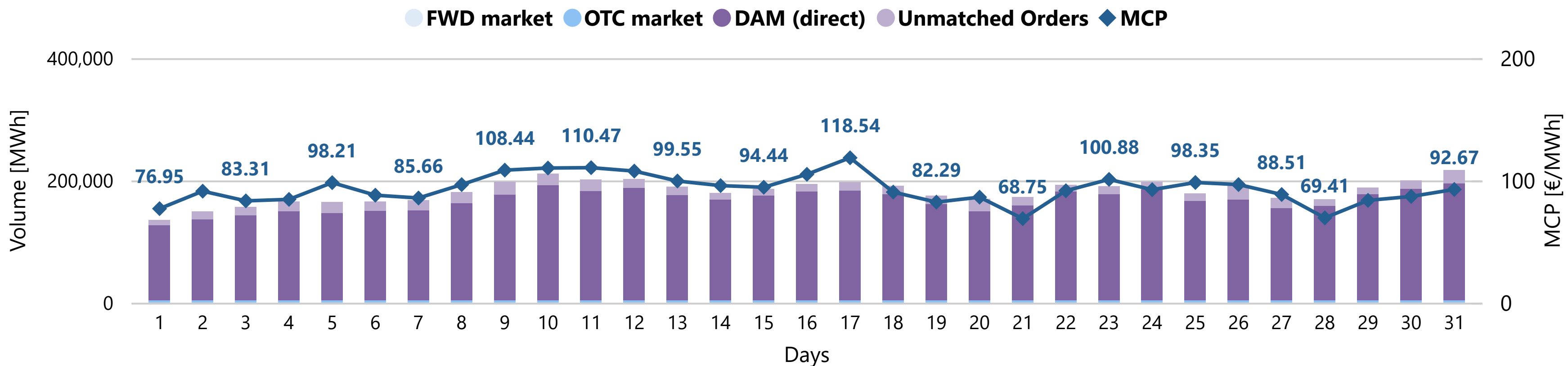
	PPT	HBD	CPL
Amount	17037	35634	851
Volume [GWh]	471	4316	408



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

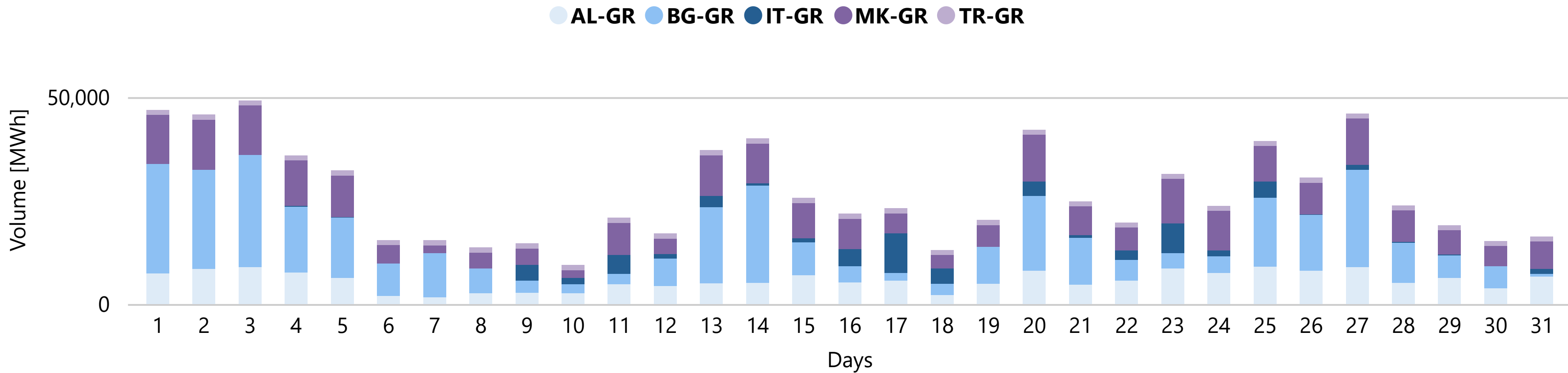


1.15 Total volume and traded volume per Market Source of buy orders

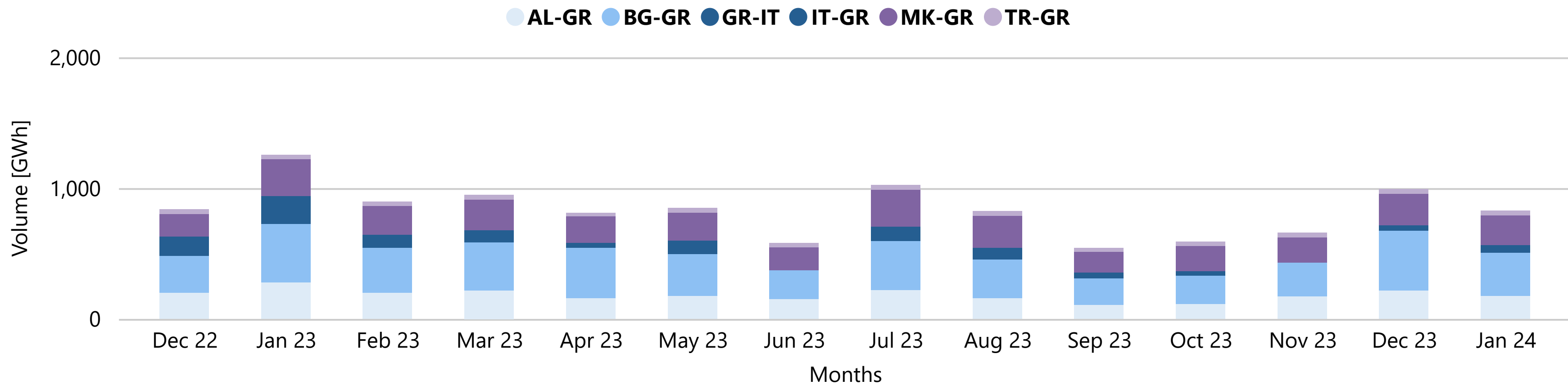




1.16 Cross Border volume · Imports per day

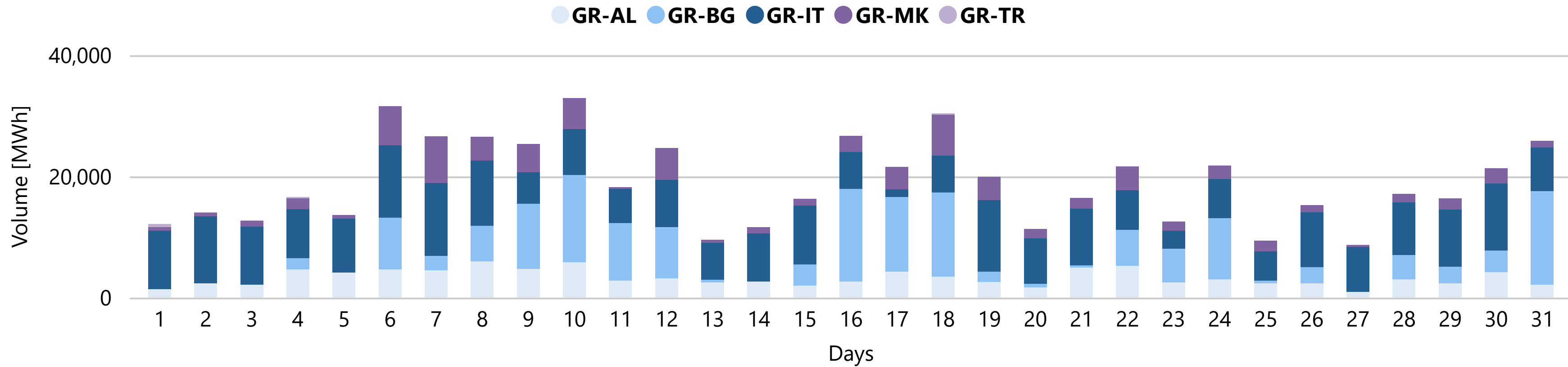


1.17 Cross Border volume · Imports per month

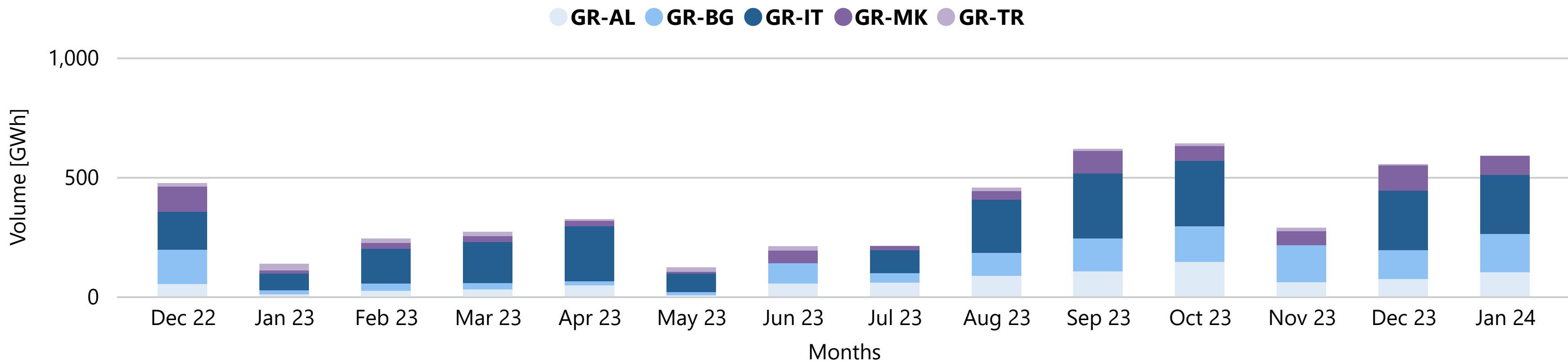




1.18 Cross Border volume - Exports per day



1.19 Cross Border volume - Exports per month

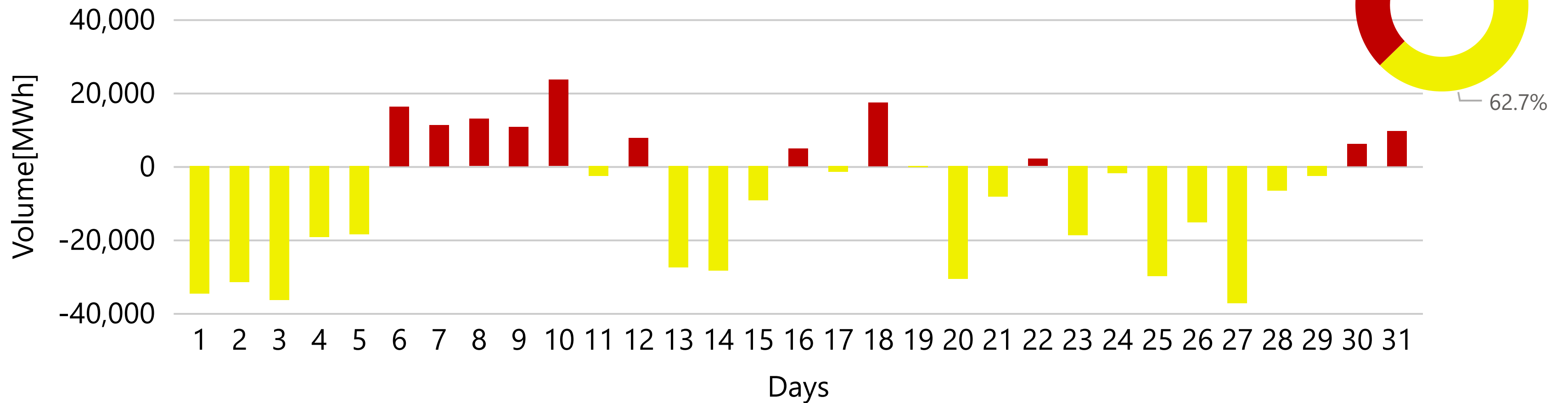




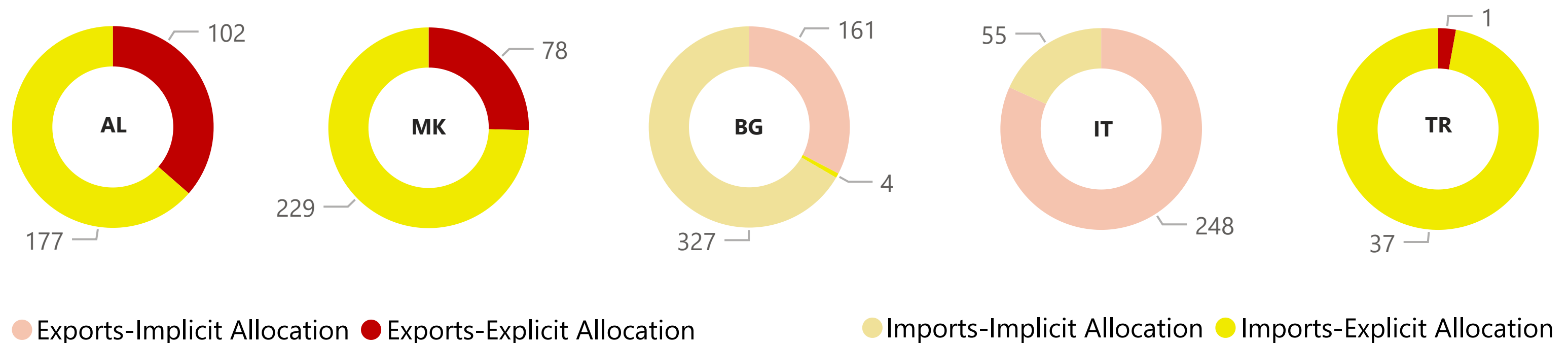
1.20 Net position of all cross-border flows

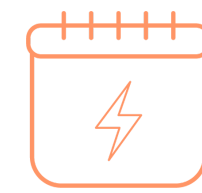
● Net Position: Import ● Net Position: Export

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

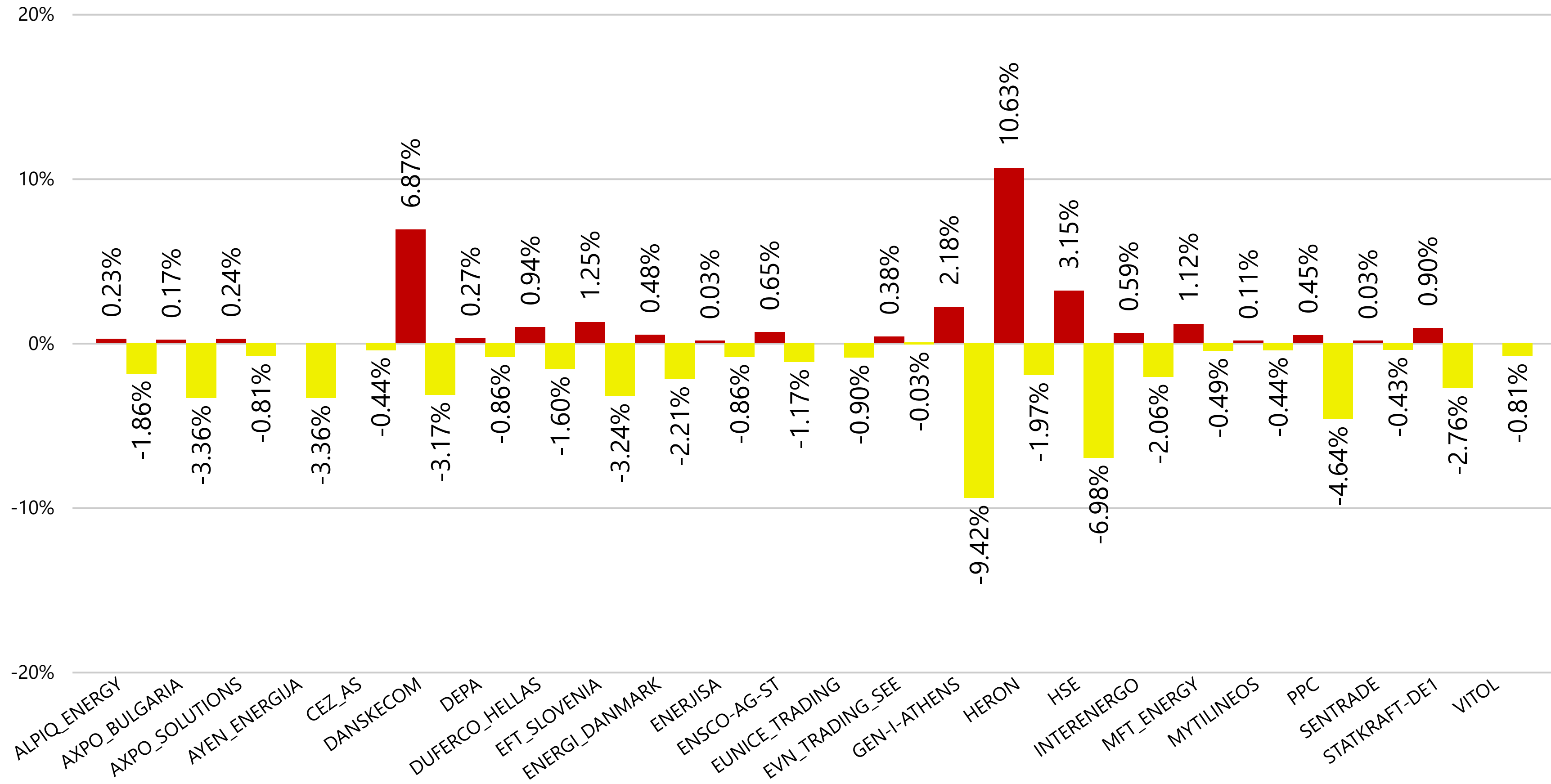


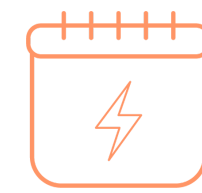
1.21 Cross Border Volumes (GWh) per Border





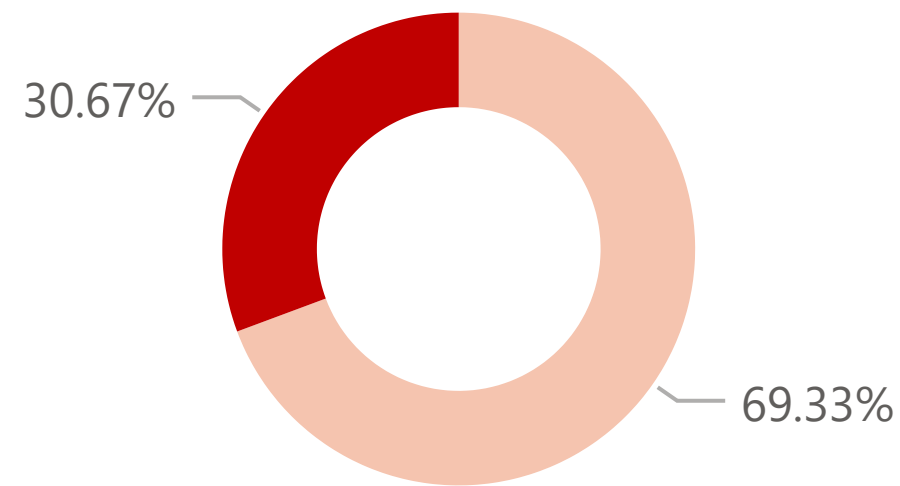
1.22 Market shares of Imports and Exports per Market participant





1.23 Total market shares of Imports and Exports

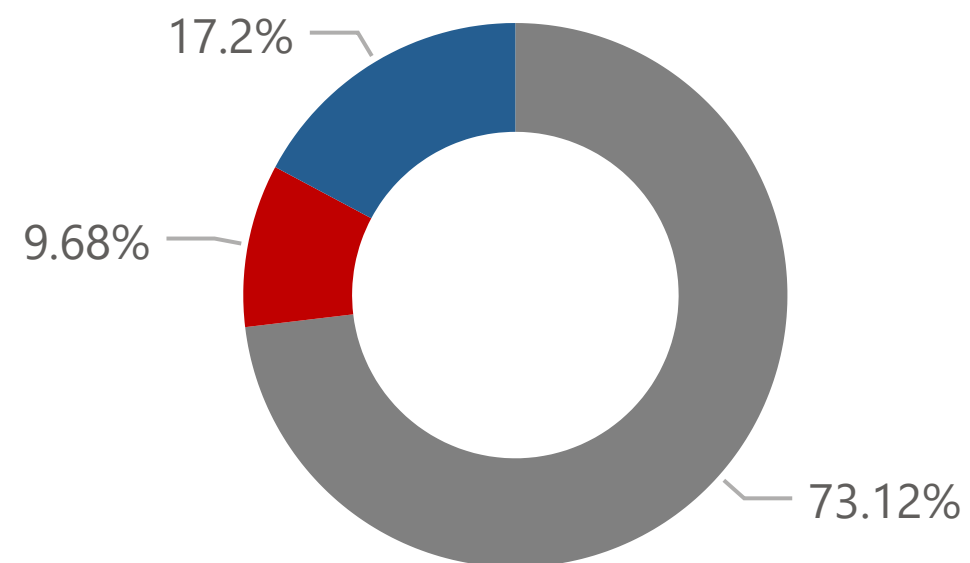
● Exports - Implicit Allocation ● Exports - Explicit Allocation



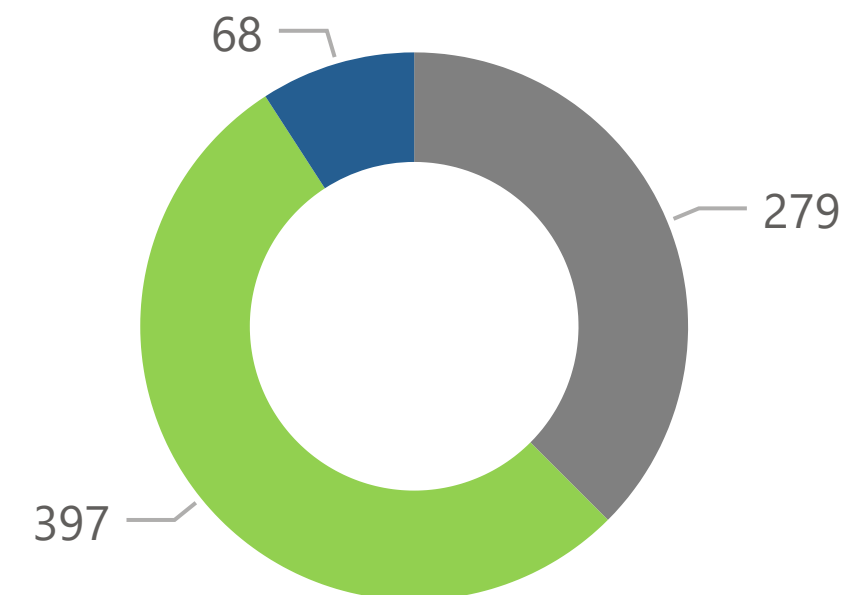
● Imports - Implicit Allocation ● Imports - Explicit Allocation



1.24 Price Coupling Data



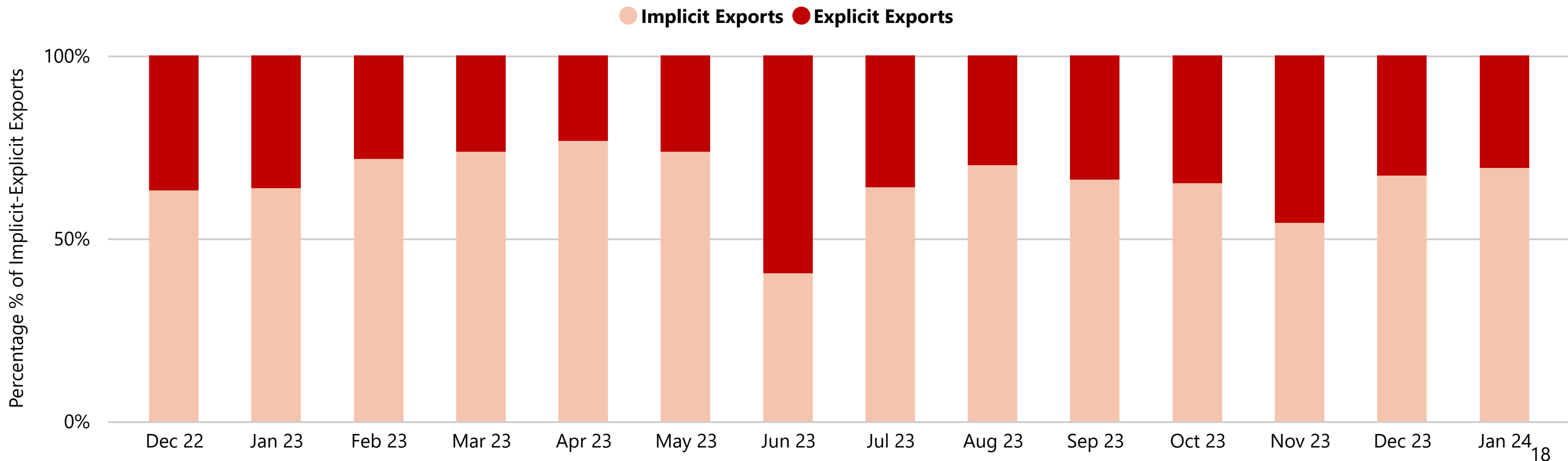
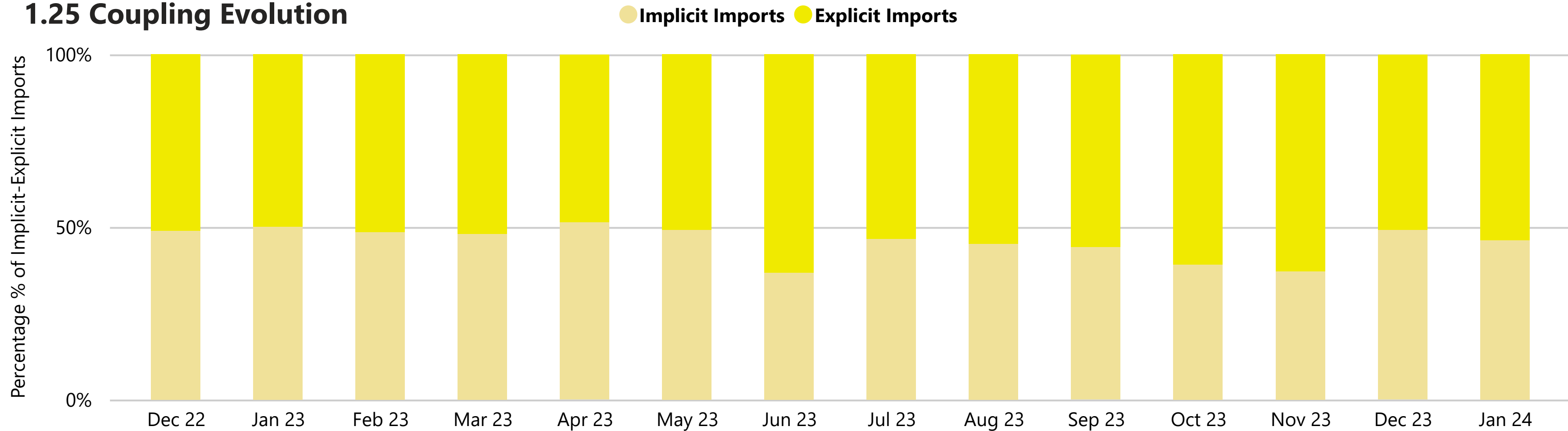
● MTUs GR = BG ● MTUs GR < BG ● MTUs GR > BG



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



1.25 Coupling Evolution

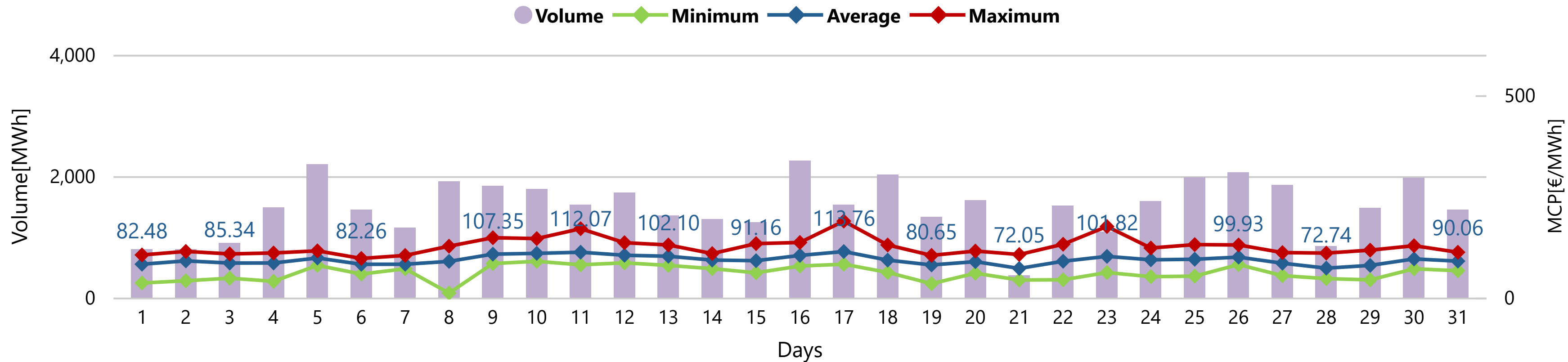


2. IDM

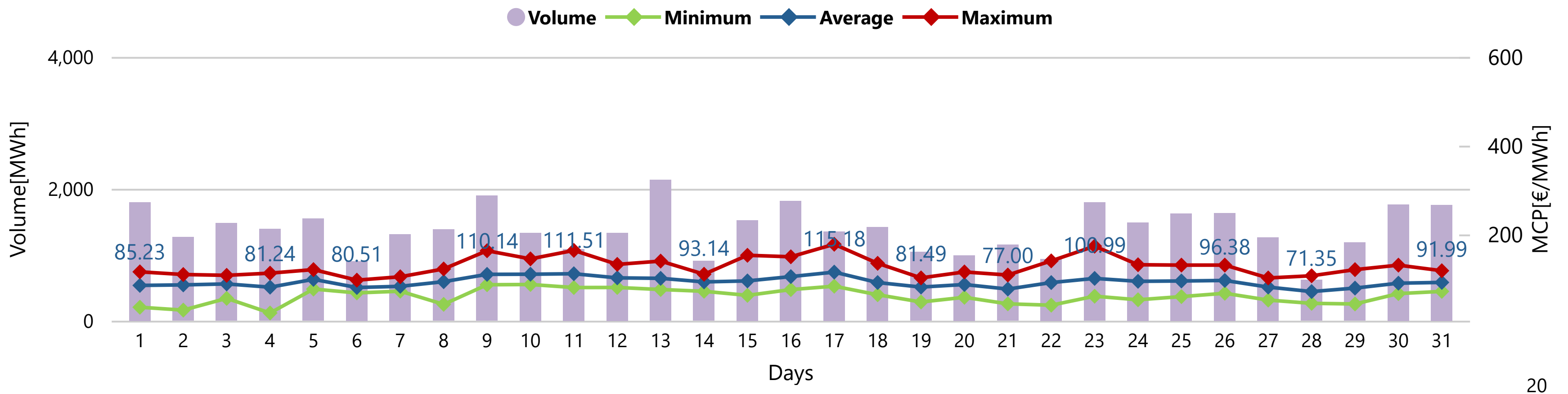
Market Clearing Prices (MCP)

Volumes, technologies and order types

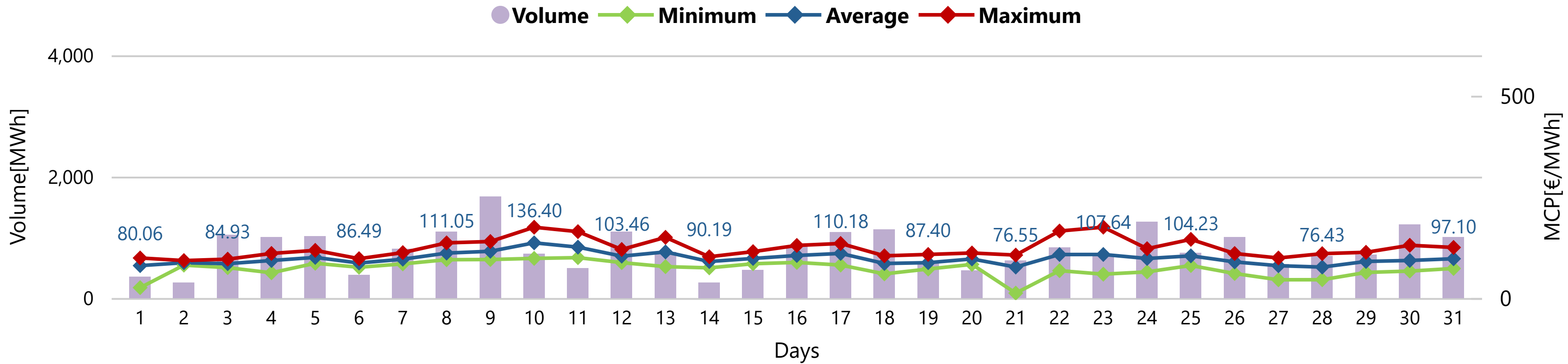
2.1 Daily MCP and Volume •CRIDA1



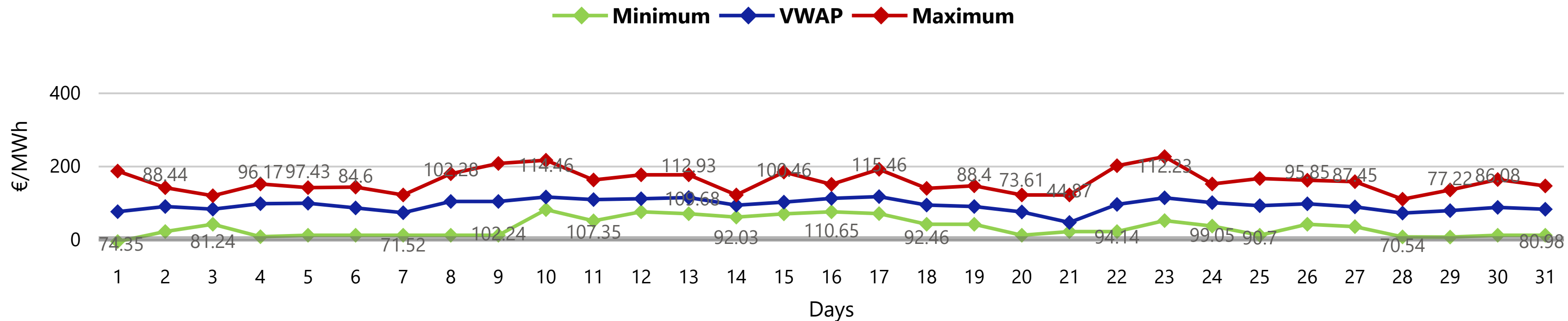
2.2 Daily MCP and Volume •CRIDA2



2.3 Daily MCP and Volume •CRIDA3

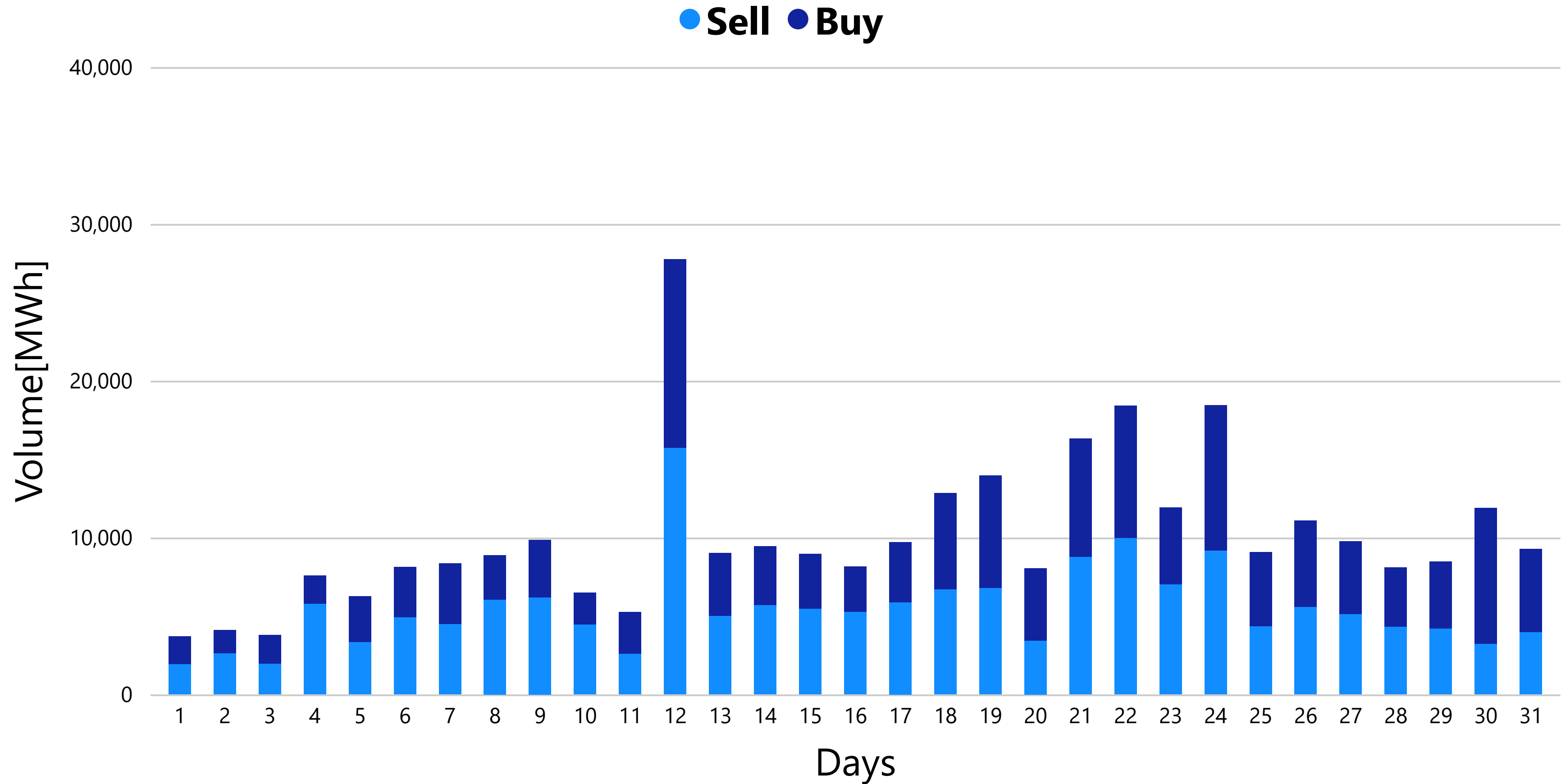


2.4 Daily XBID Weighted Average Prices





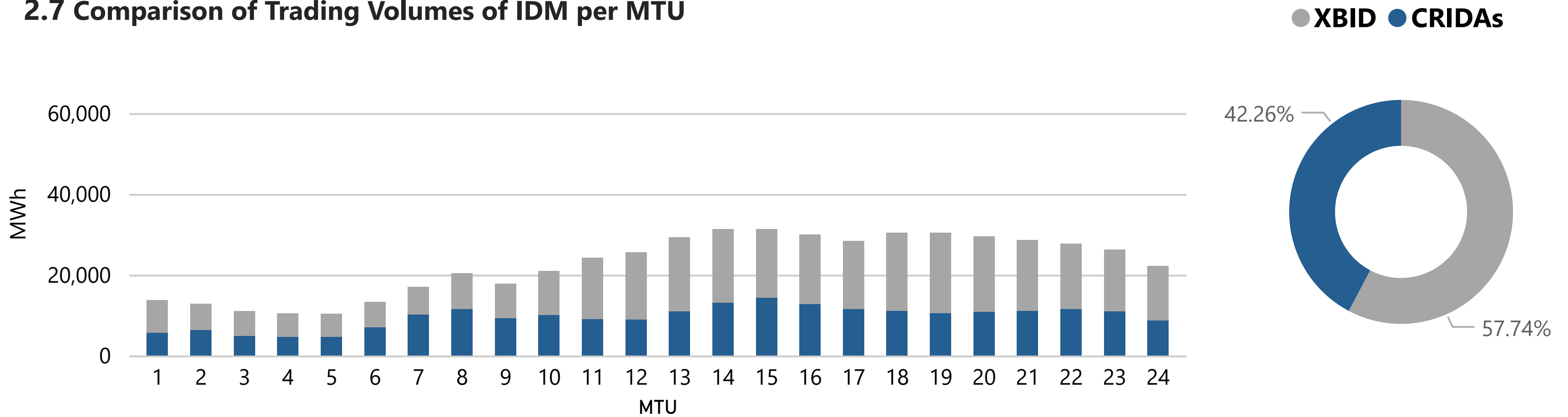
2.5 Daily XBID Volumes



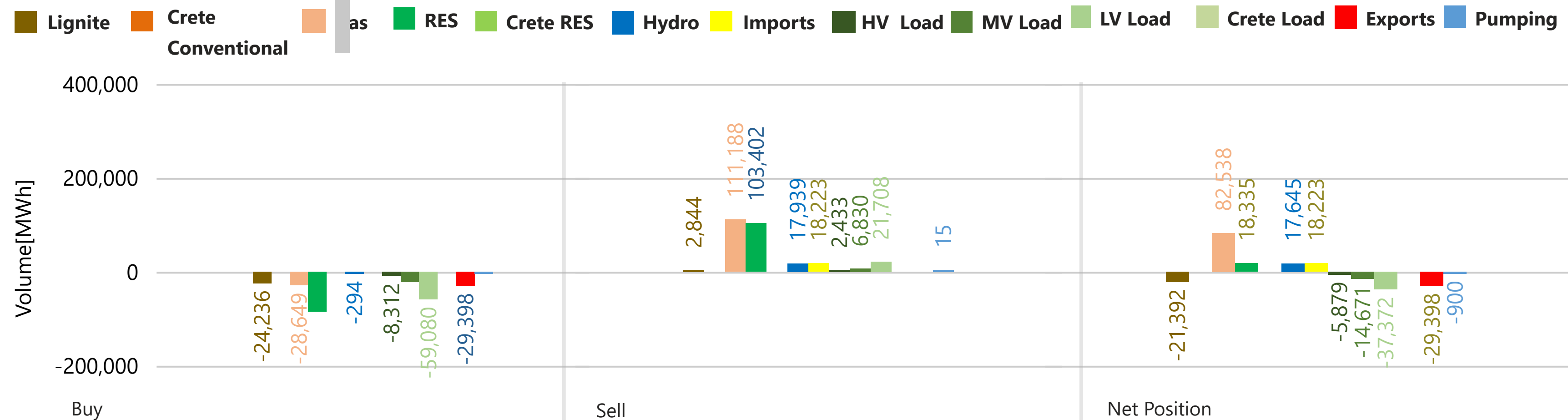
2.6 Table with MCP and volume

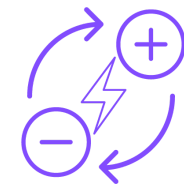
Year		2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024
Month		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
CRIDA1	Price	0.9	3.95	7.50	-0.01	3.29	0	-1	-1	0	0.04	2.01	11.20
	Price [€/MWh]	149.98	118.00	115.37	105.18	90.52	111.40	103.26	99.93	109.27	106.54	100.63	92.56
	min	267	218.22	216.37	2.95K	190.92	300	404.90	342.17	400	400.00	218.11	188.96
	max												
Volume [MWh]		41,868	50,834	41,365	45,131	31,612	58,530	57,680	54,474	45,751	38,874	52,104	46,408
CRIDA2	Price	-0.01	0	0.34	-4.18	0.14	-2.50	-25.51	-4	-8	-2.30	-3.96	23.11
	Price [€/MWh]	138.04	109.27	108.38	96.24	89.23	107.55	100.36	97.19	105.15	105.14	97.73	92.65
	min	500	244.22	226.37	190	400	415.82	571.54	331.27	415	490	254.61	177.94
	max												
Volume [MWh]		53,775	51,859	48,714	60,218	43,967	46,690	37,297	45,738	41,353	29,557	41,847	43,150
CRIDA3	Price	-0.99	1	0.02	0.03	0.50	-3	0	0	0	0.99	0.38	12.10
	Price [€/MWh]	141.56	103.40	107.07	92.49	104.72	126.30	117.56	100.78	113.33	117.35	105.05	97.61
	min	600	349.22	242.50	200	262.89	300	521.10	341.19	359.14	401.58	400	175.15
	max												
Volume [MWh]		36,150	34,449	28,606	38,300	22,771	22,664	33,656	26,300	20,845	15,135	23,691	24,962
XBID	Price	-1.90	0	-25	-32	-38	-21.10	-80	-23.12	-20	-2	-11.01	-7.30
	Price [€/MWh]	103.78	96.39	96.55	90.19	86.88	96.19	94.85	92.55	96.37	95.34	94.10	92.74
	min	300	1005	299.89	209.52	251	425.82	446	360	894	350	230	224.64
	max												
AV.Volume [MWh]		356,502	342,283	335,968	348,346	312,678	398,199	365,551	310,182	288,476	297,555	311,840	156,496

2.7 Comparison of Trading Volumes of IDM per MTU



2.8 Volume mix per side and net position for IDM





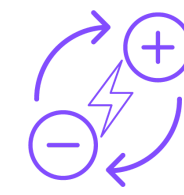
3. DAM & IDM · Aggregated Overview

Final Market Schedules

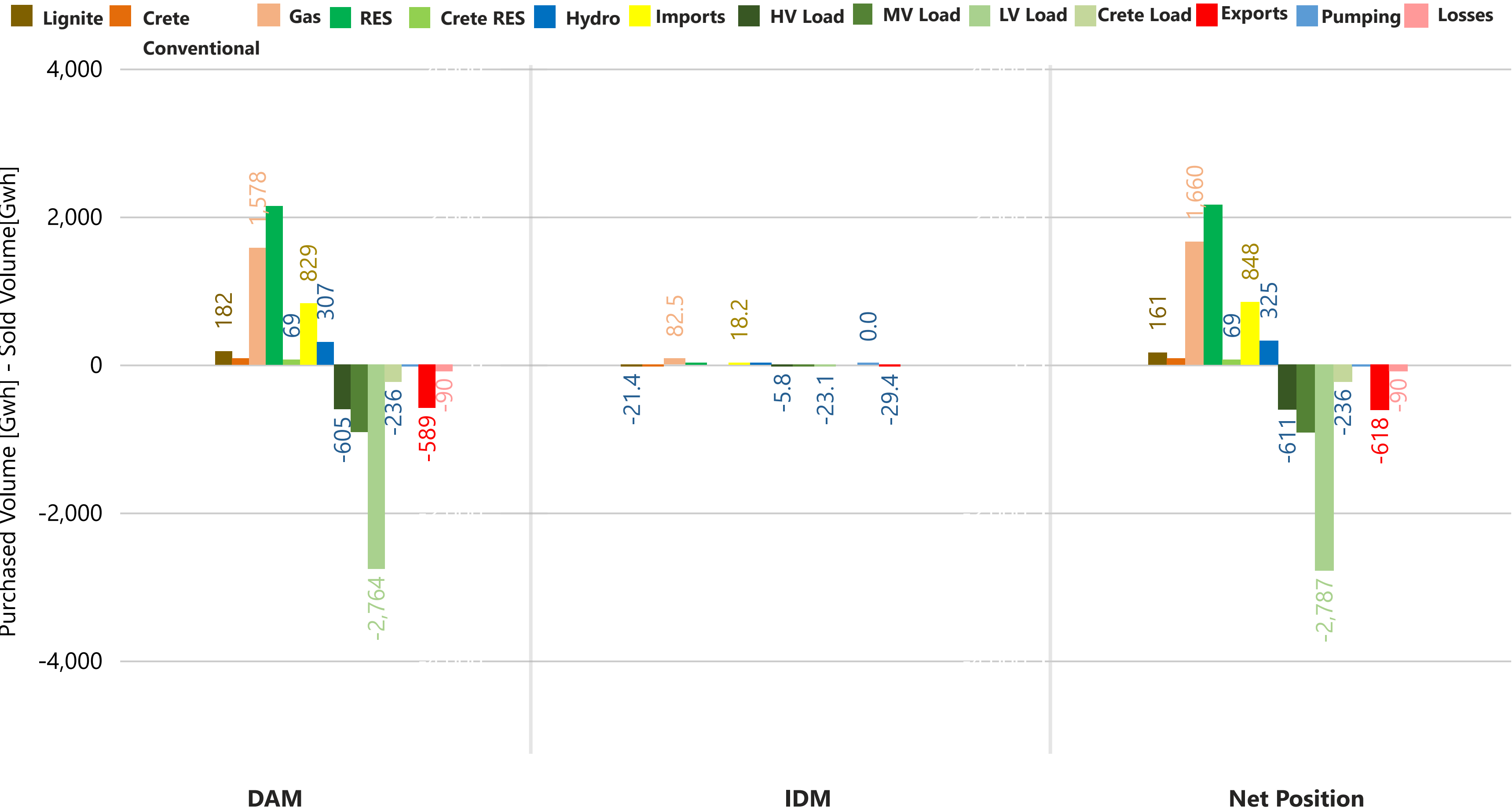
Domestic Production

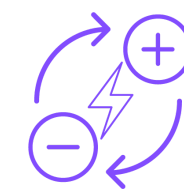
Domestic Consumption

Domestic Consumption per Voltage level

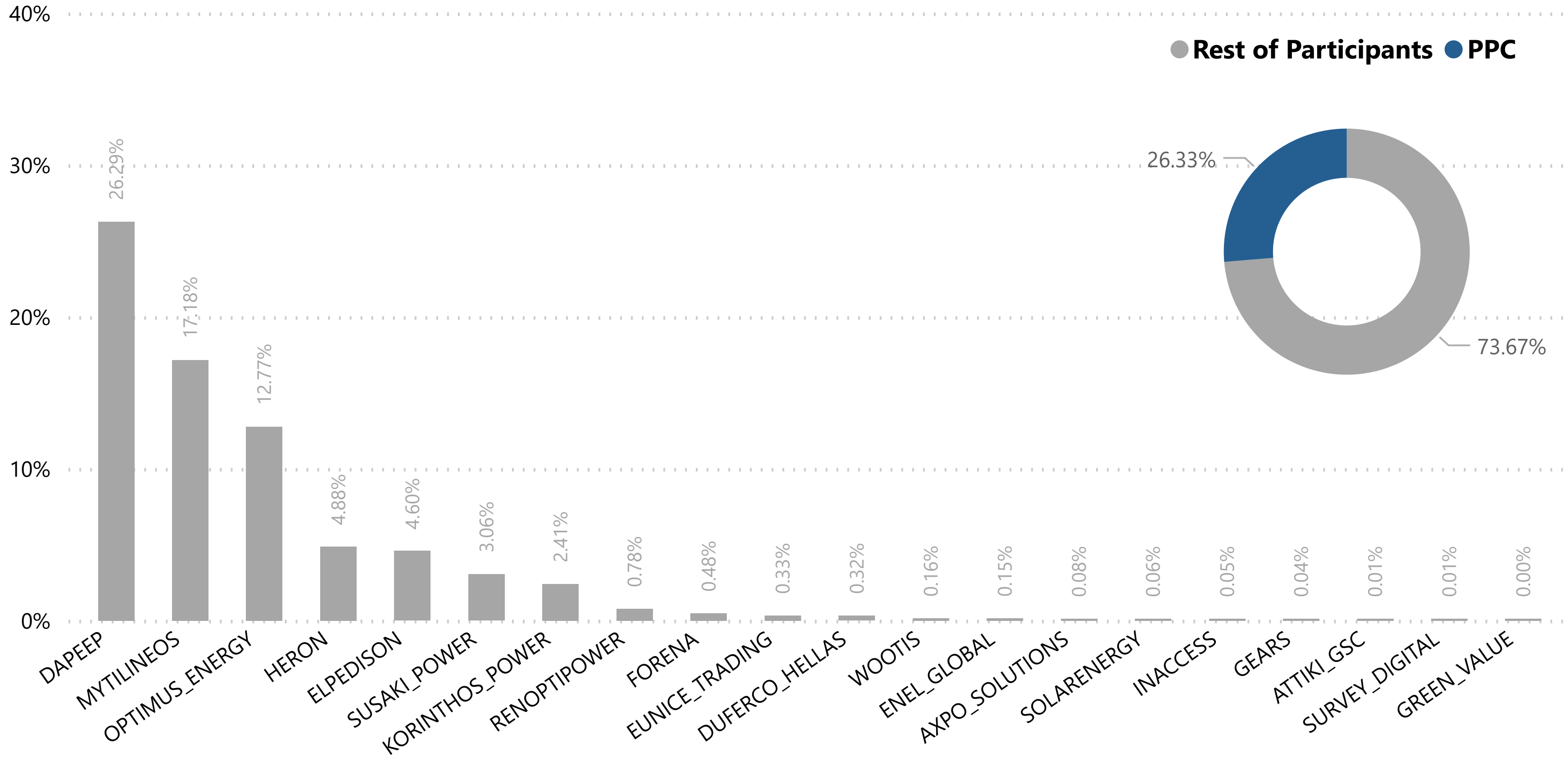


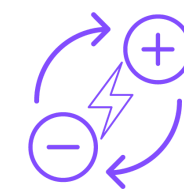
3.1 Market Schedules



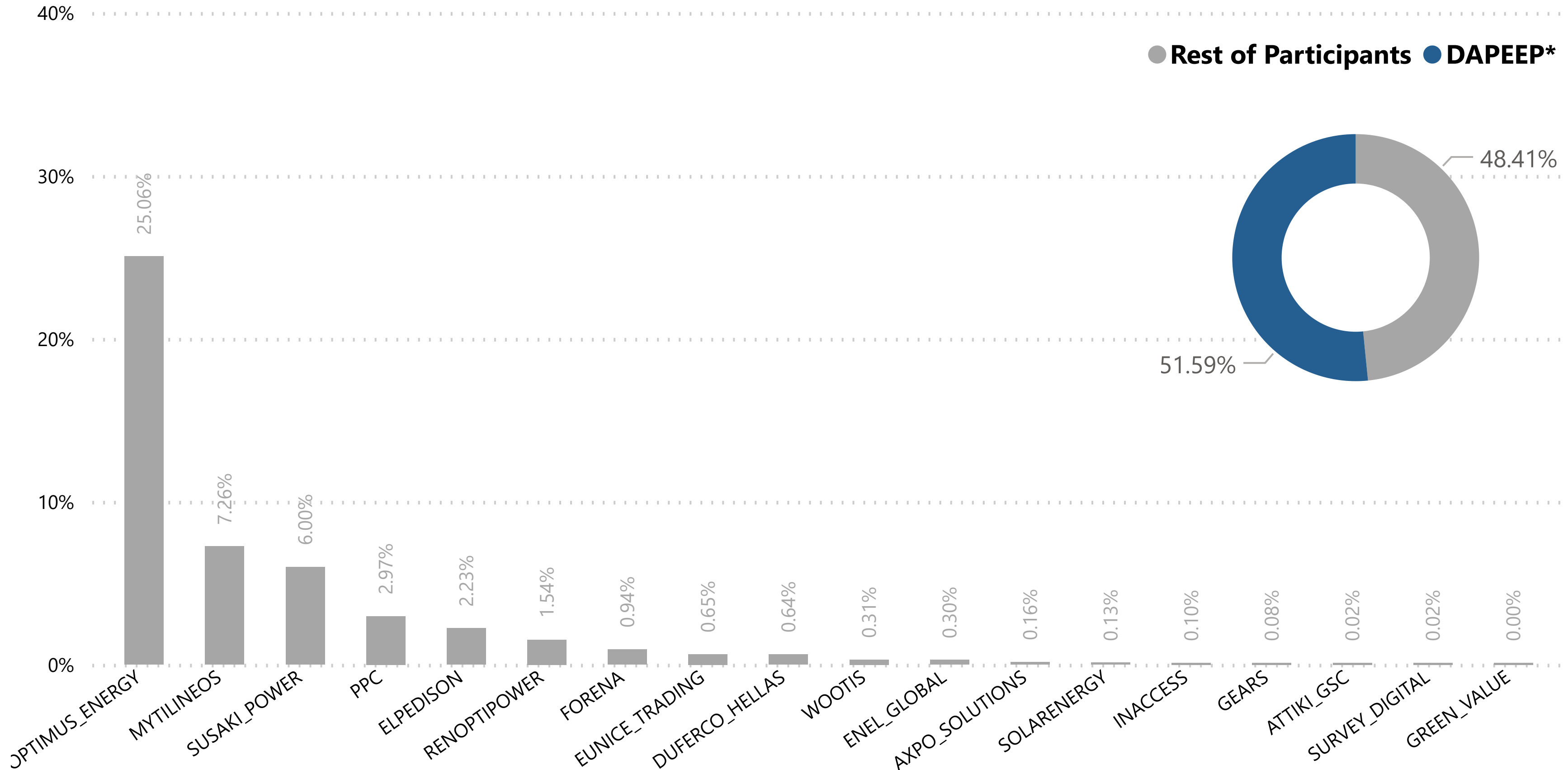


3.2 Final Market Schedule shares for all production units per Market Participant · Greek Bidding Zone

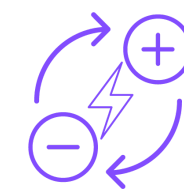




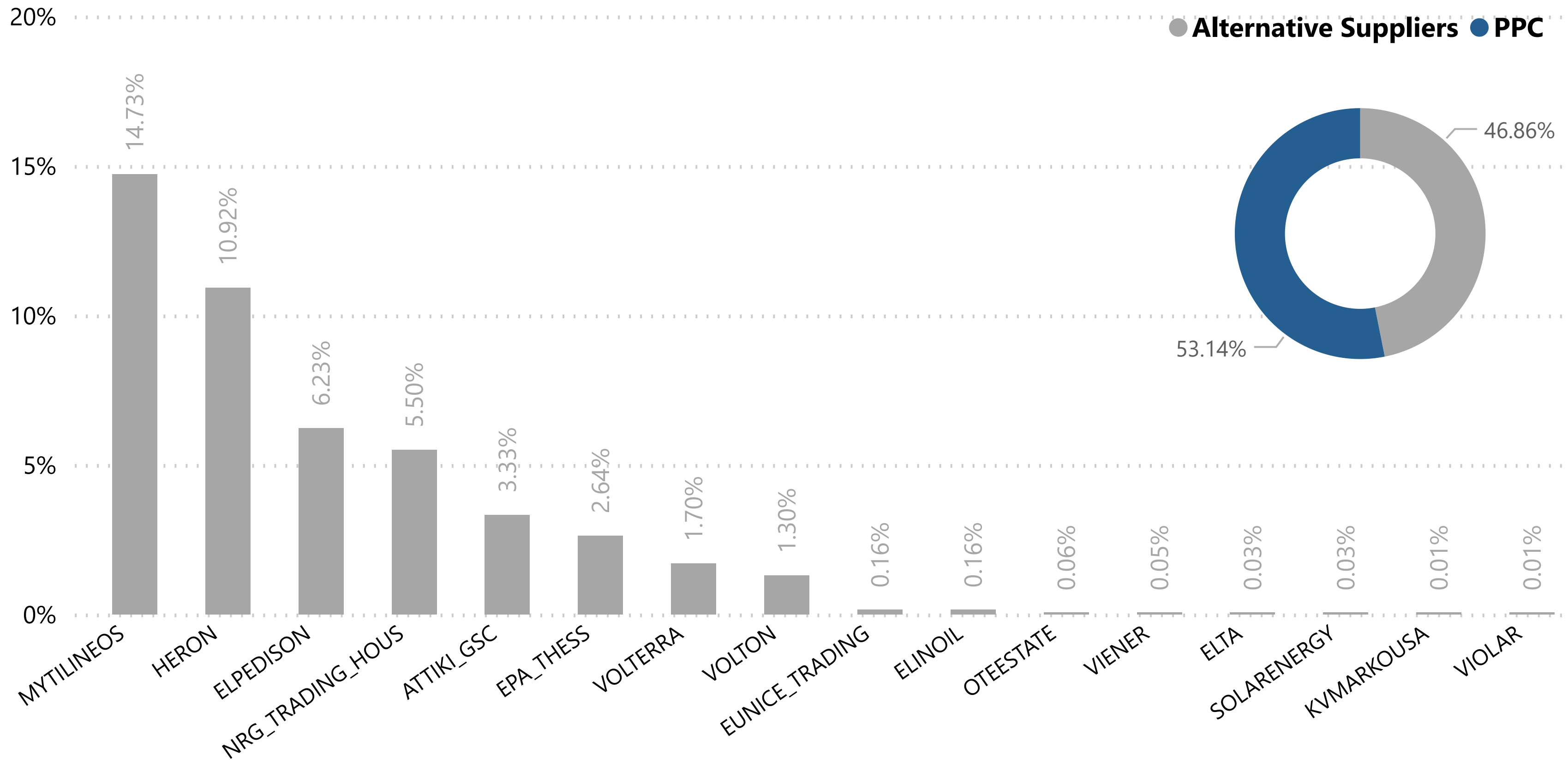
3.3 Final Market Schedule shares for RES production units per Market Participant · Greek Bidding Zone

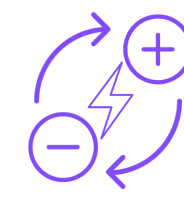


*The percentage of DAPEEP includes 0.39% its role as a Last Resort RES Aggregator (FOSETEK)

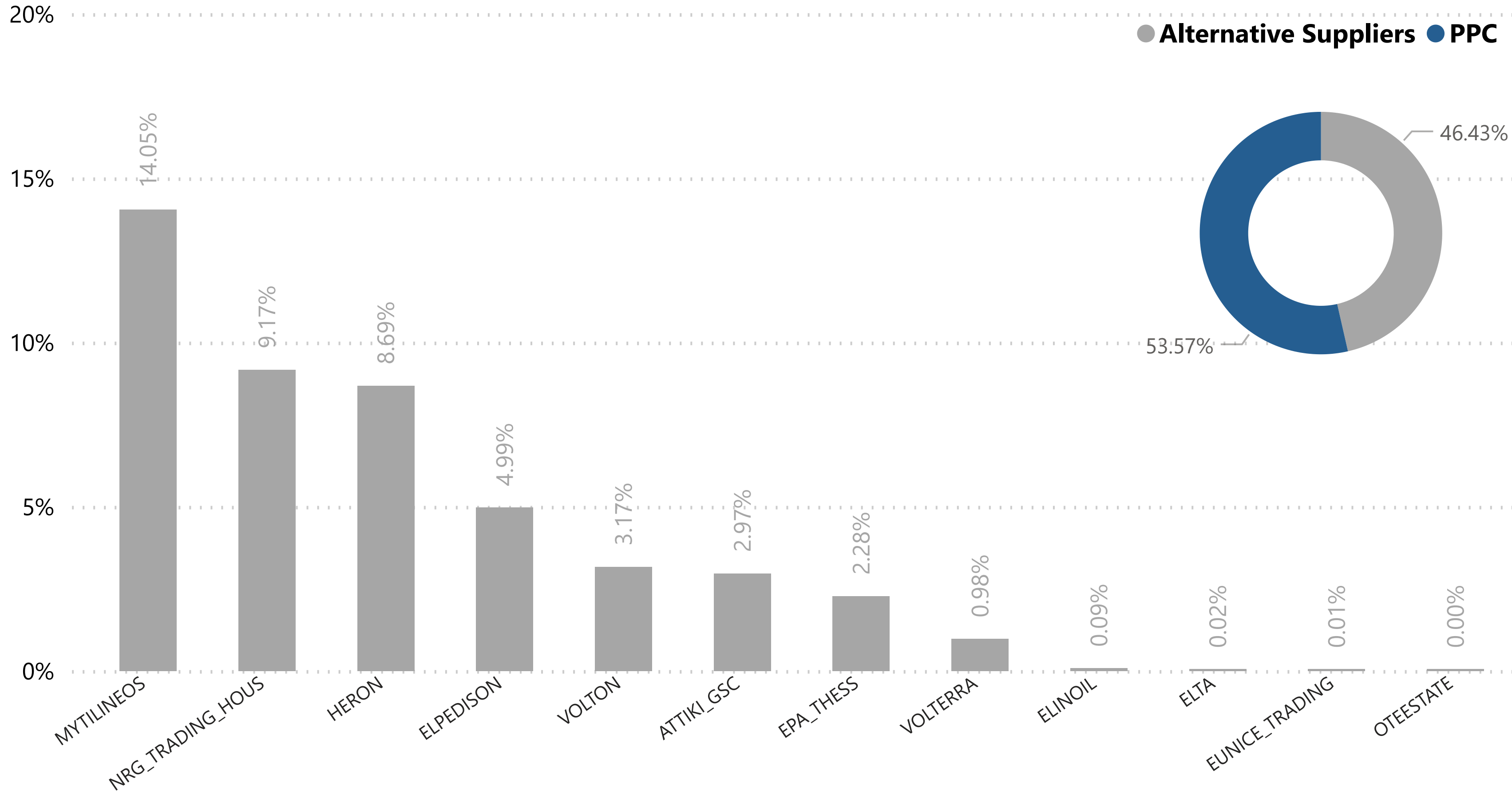


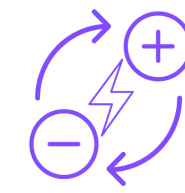
3.4 Final Market Schedule shares for domestic load per Market Participant · Mainland



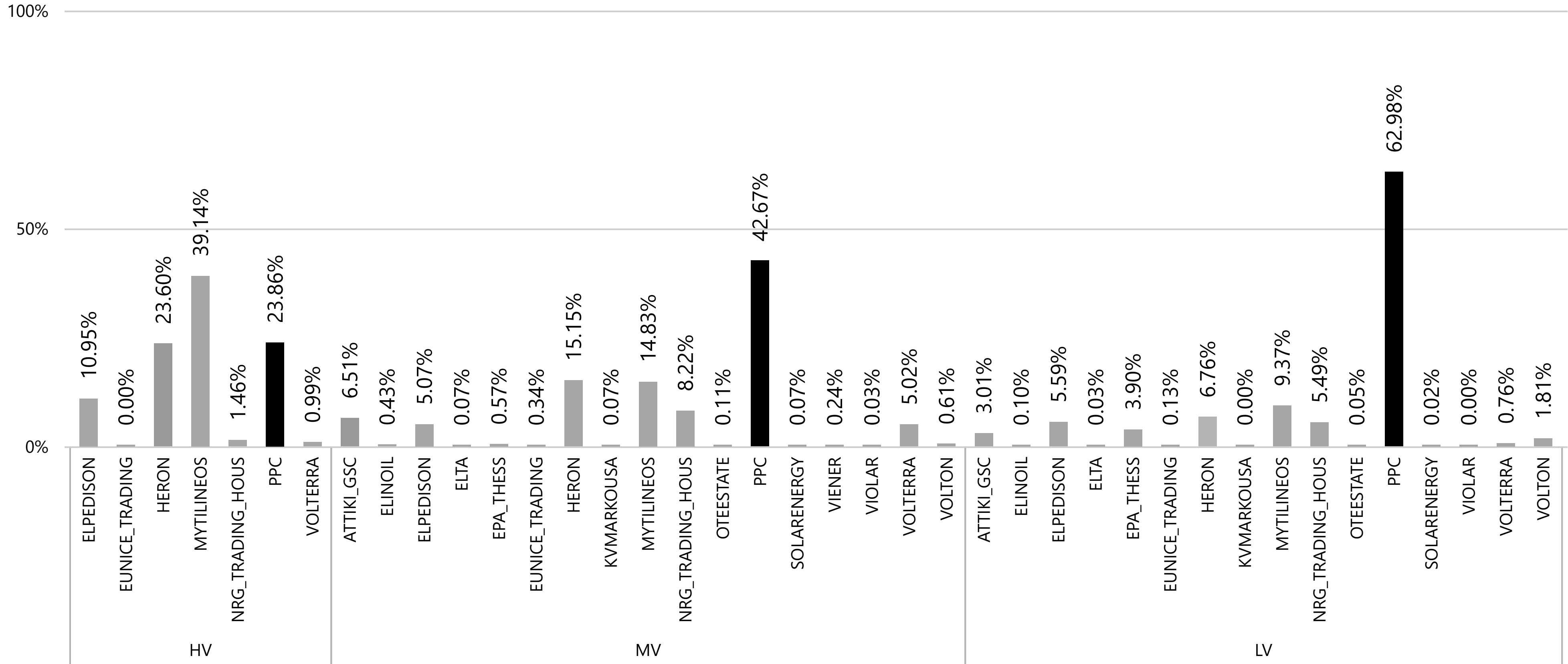


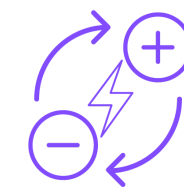
3.5 Final Market Schedule shares for domestic load per Market Participant · Crete





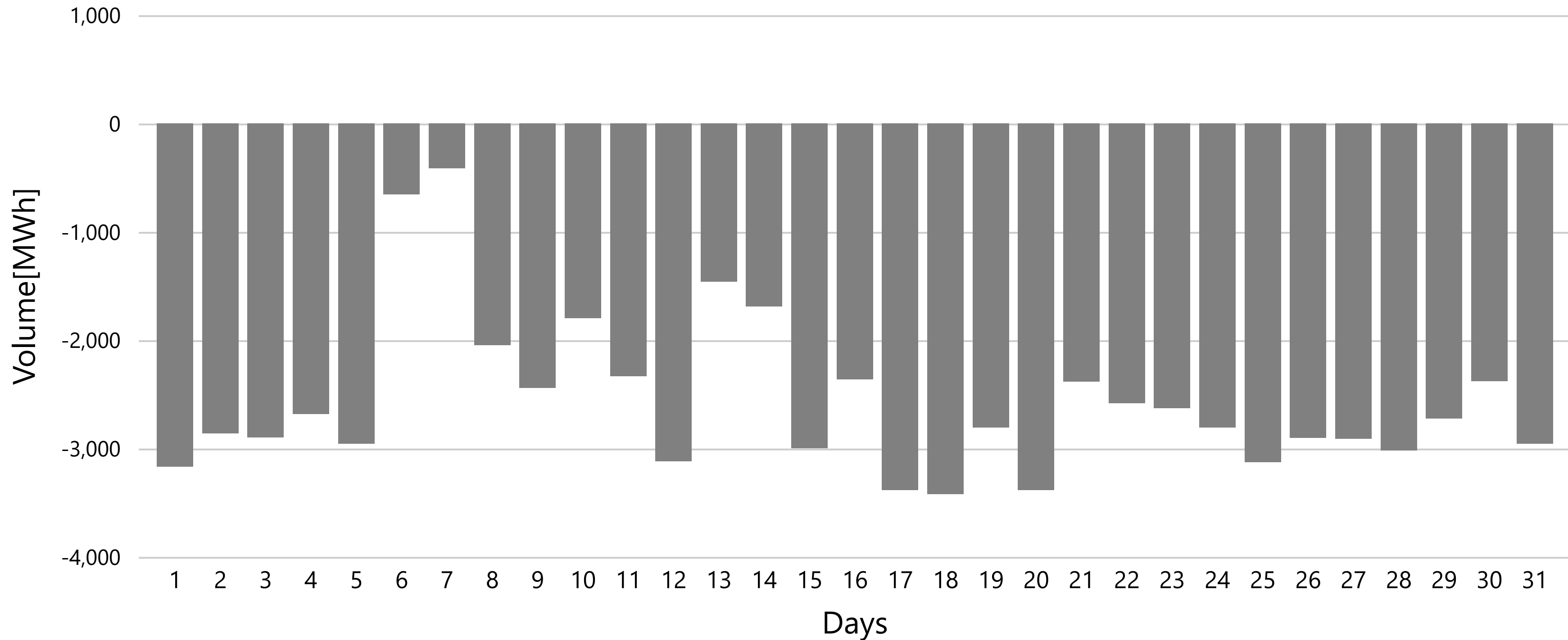
3.6 Final Market Schedule shares for domestic load per Market Participant at each Voltage Level · Mainland





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 TP

HEnEX NGAS Indices

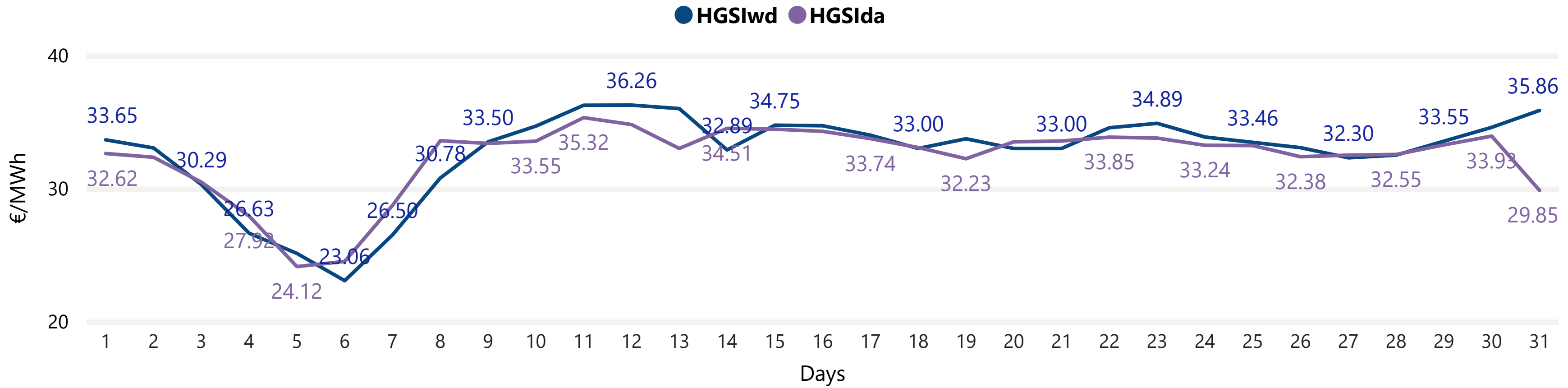
Trading Volume per Trading Date

Trading Volume per Product, Session

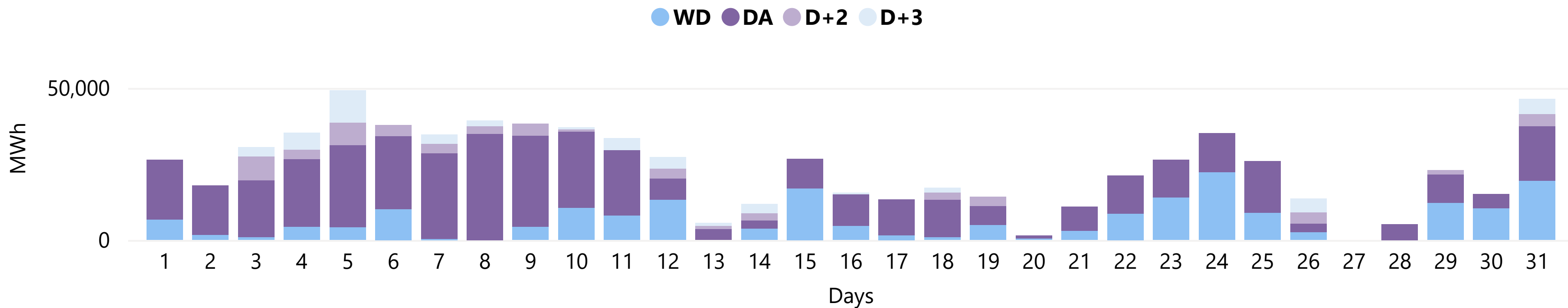
Closing, Min & Max Prices



4.1 HEnEx NGAS indices

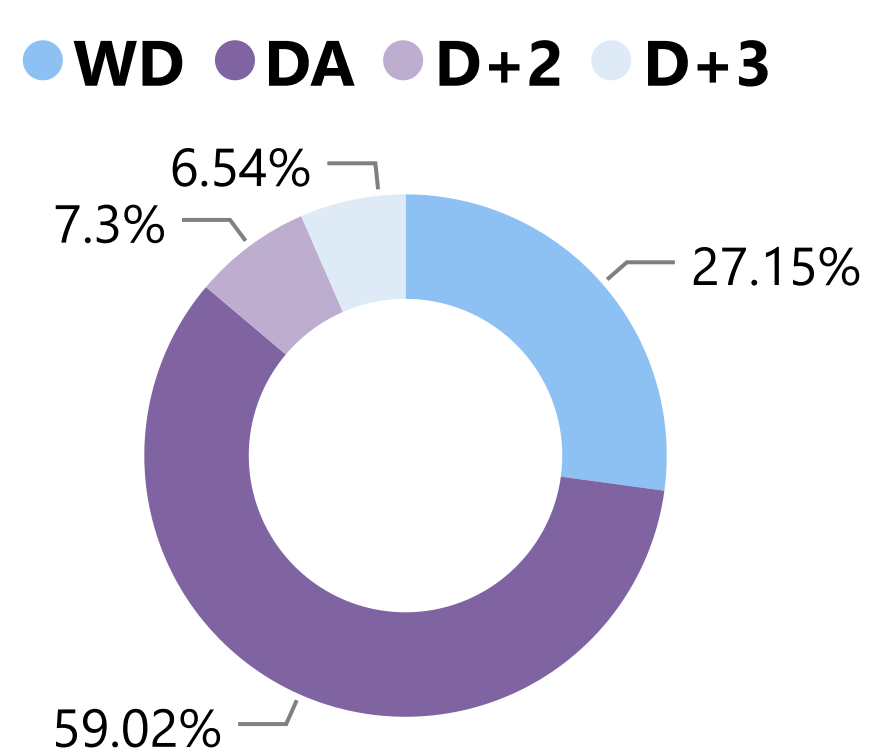


4.2 Trading Volume per Trading Day

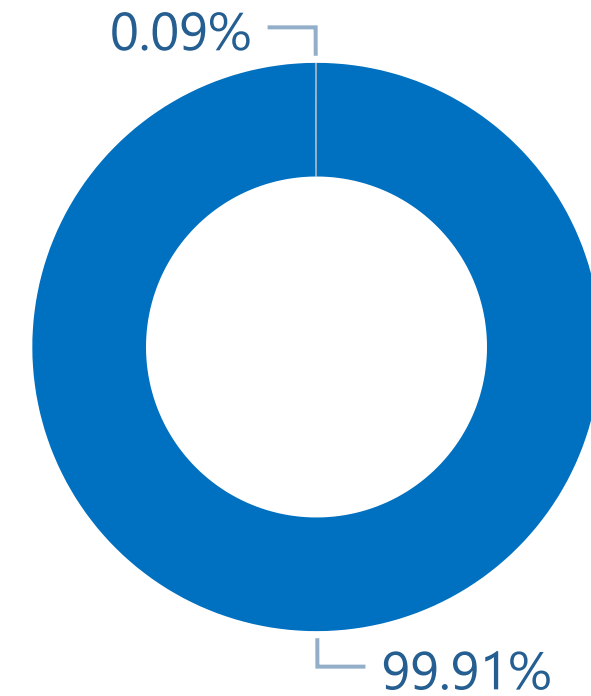




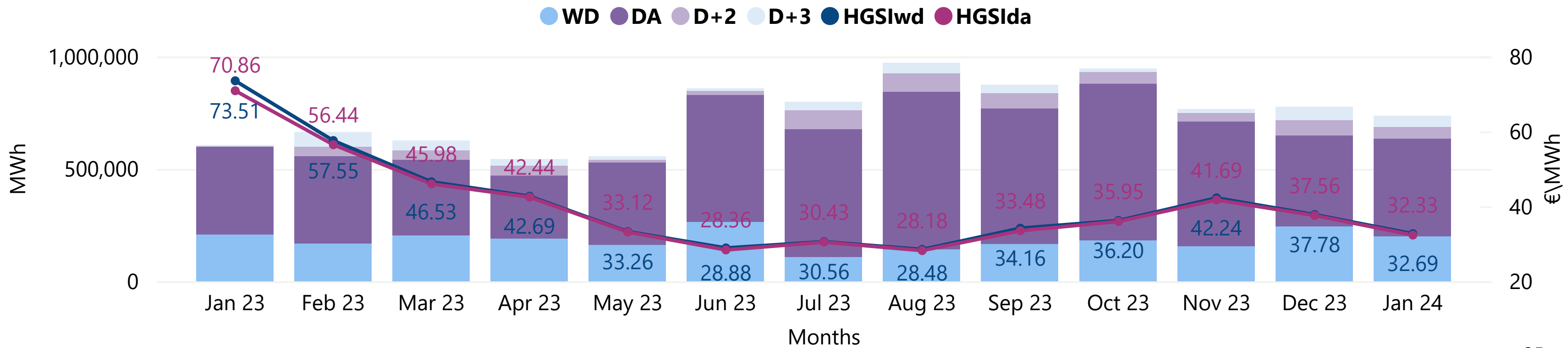
4.3 Trading Volume per Product & Session



● Continuous Traded Volume ● Auction Traded Volume

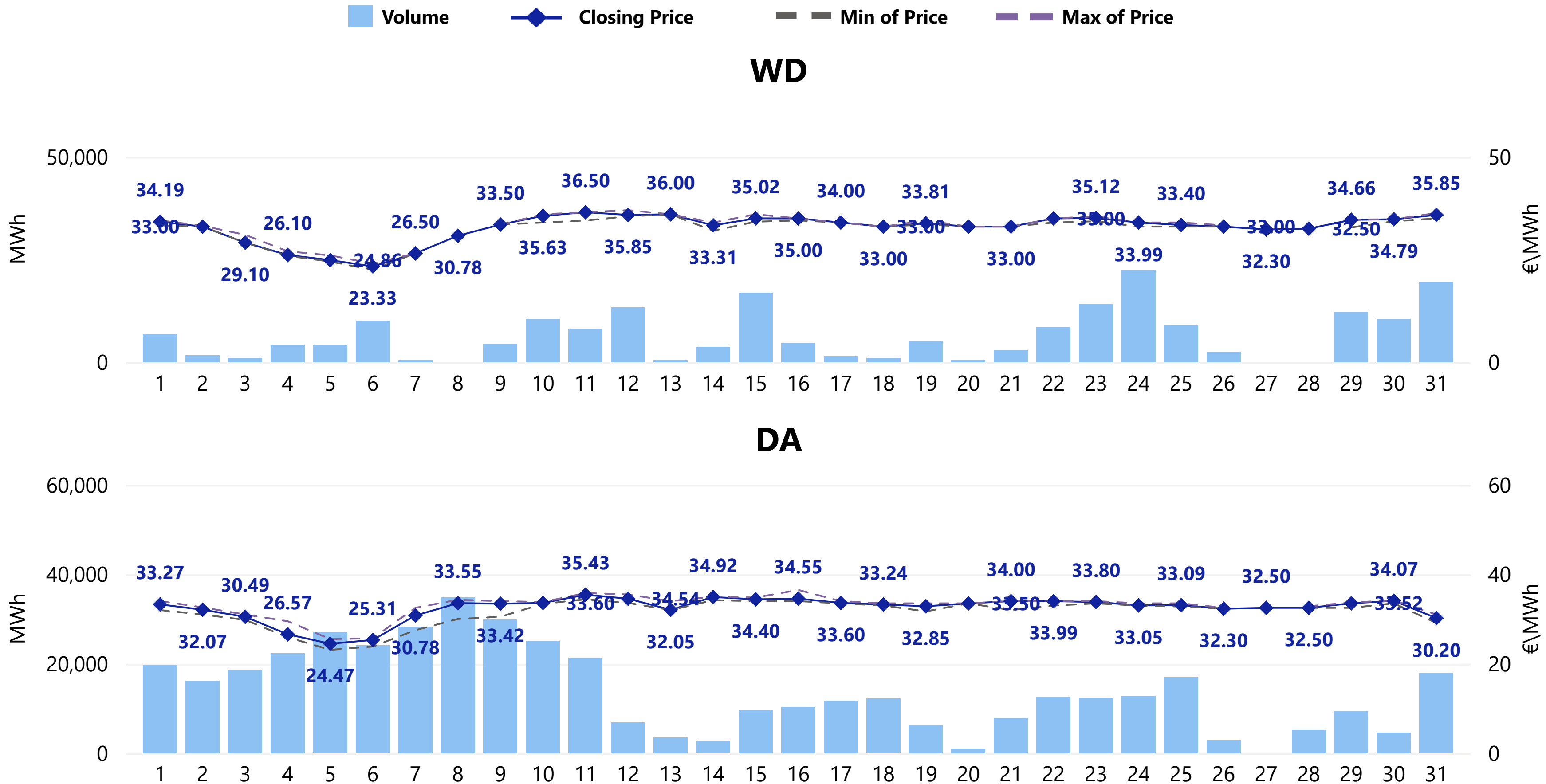


4.4 HEnEX NGAS indices and Trading Volume per Month





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

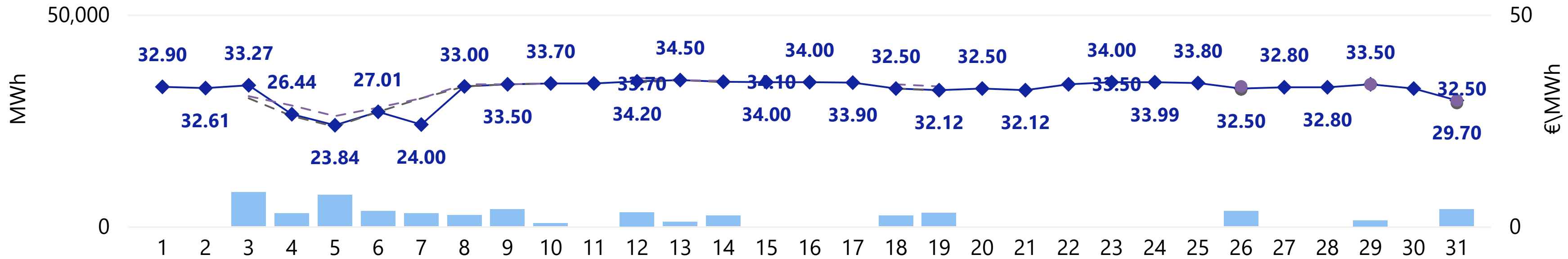




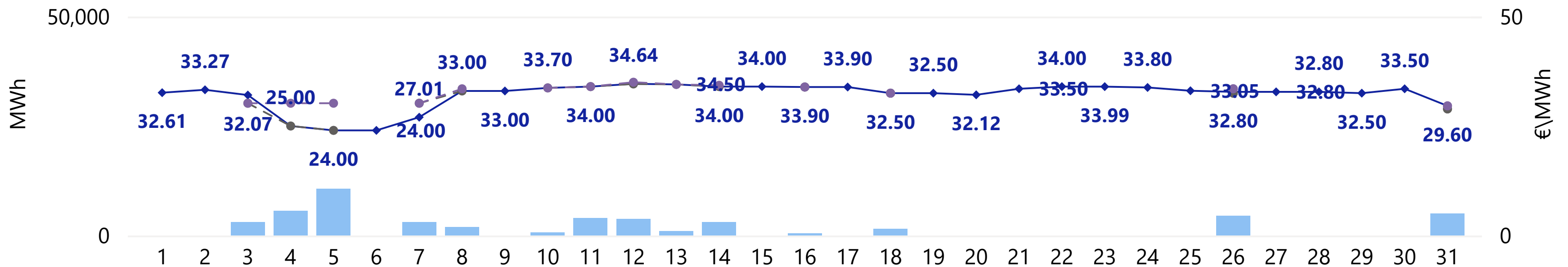
4.5 Volume, Closing, Min, & Max Prices per Trading Day & Product

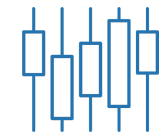
■ Volume
 ◆ Closing Price
 — Min of Price
 — Max of Price

D+2



D+3





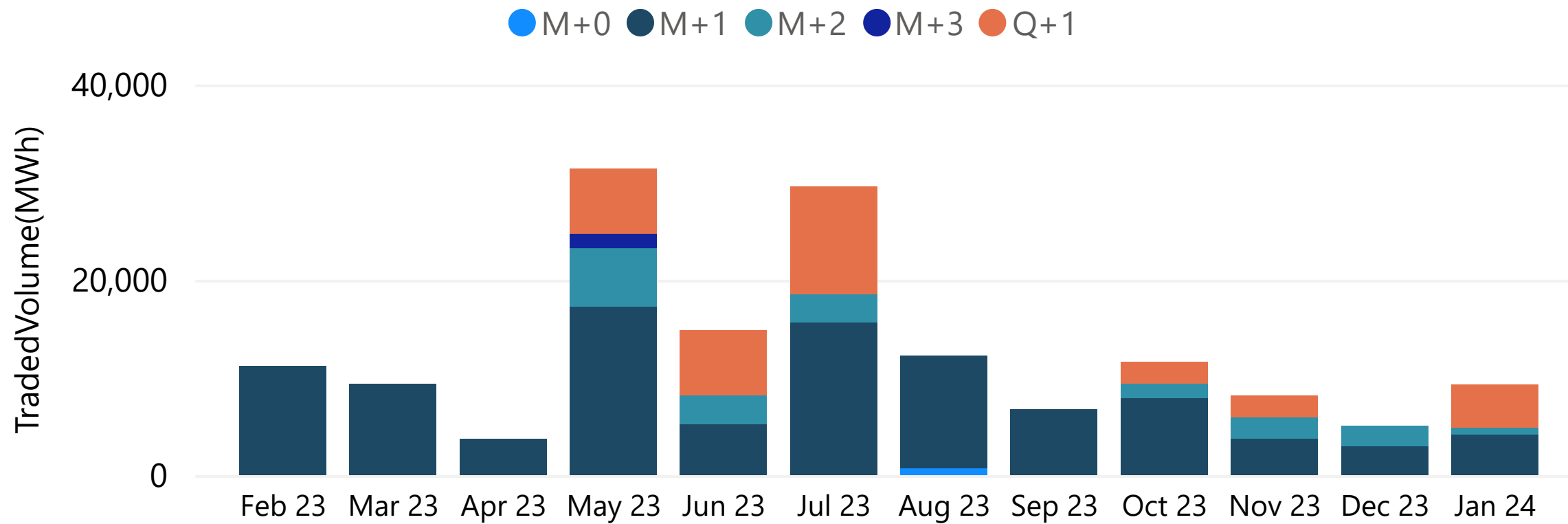
5. Derivatives Market

Traded Volume by Instrument and Month - Baseload

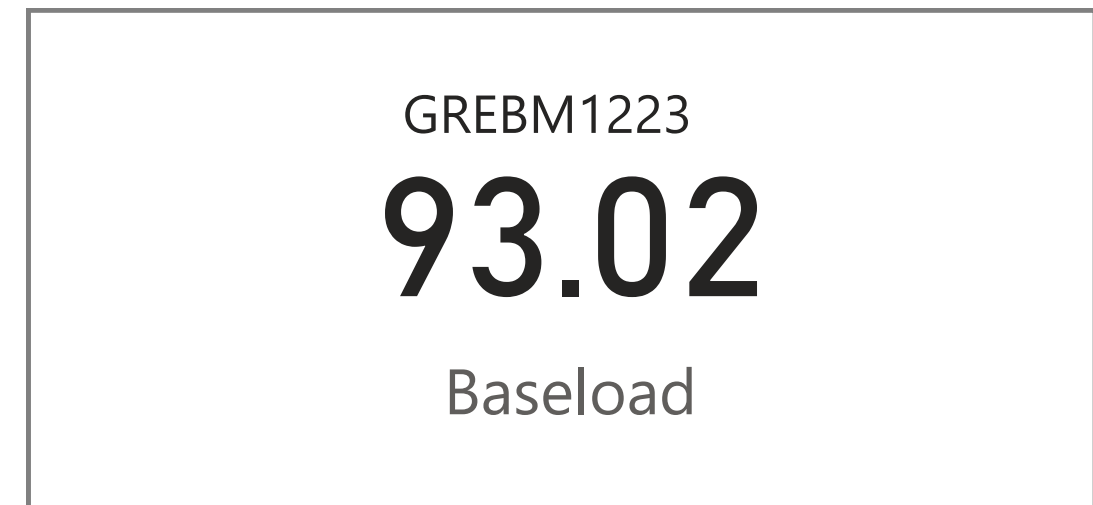
Daily Settlement prices for Baseload Instruments - Baseload

Final Settlement prices for the monthly expired traded series

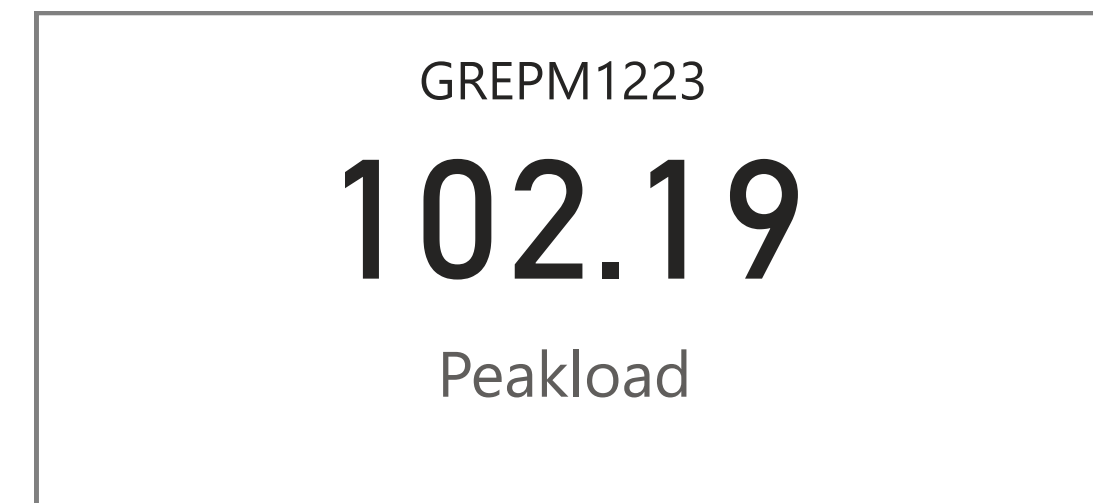
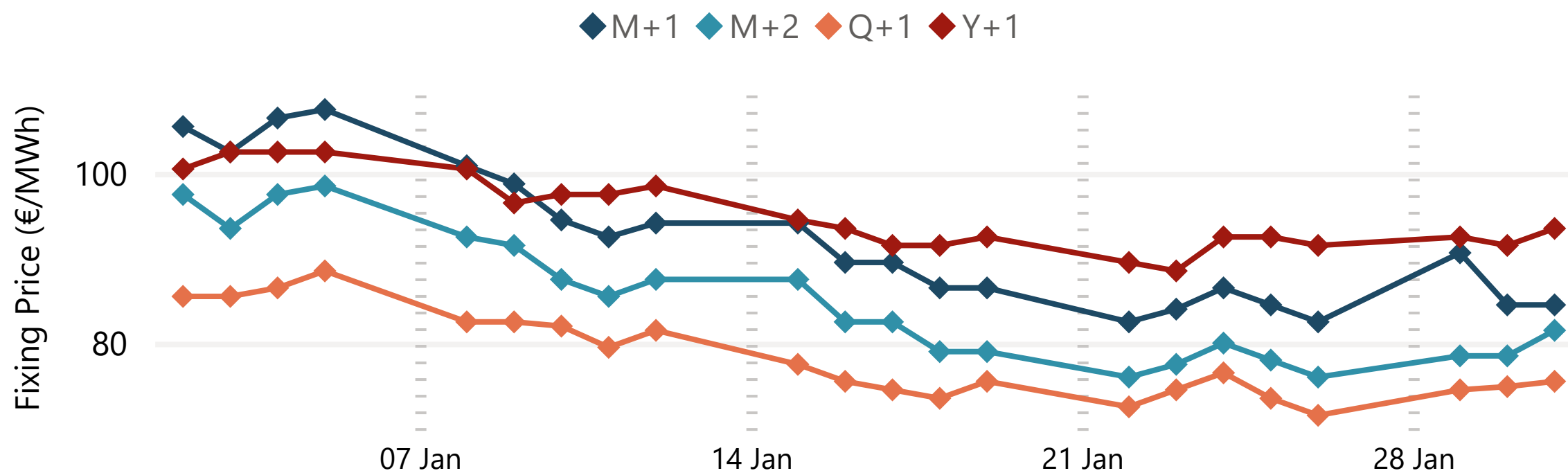
5.1 Traded Volume by Instrument and Month - Baseload



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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