



Monthly Report · December 2022

Electricity and NGAS Markets




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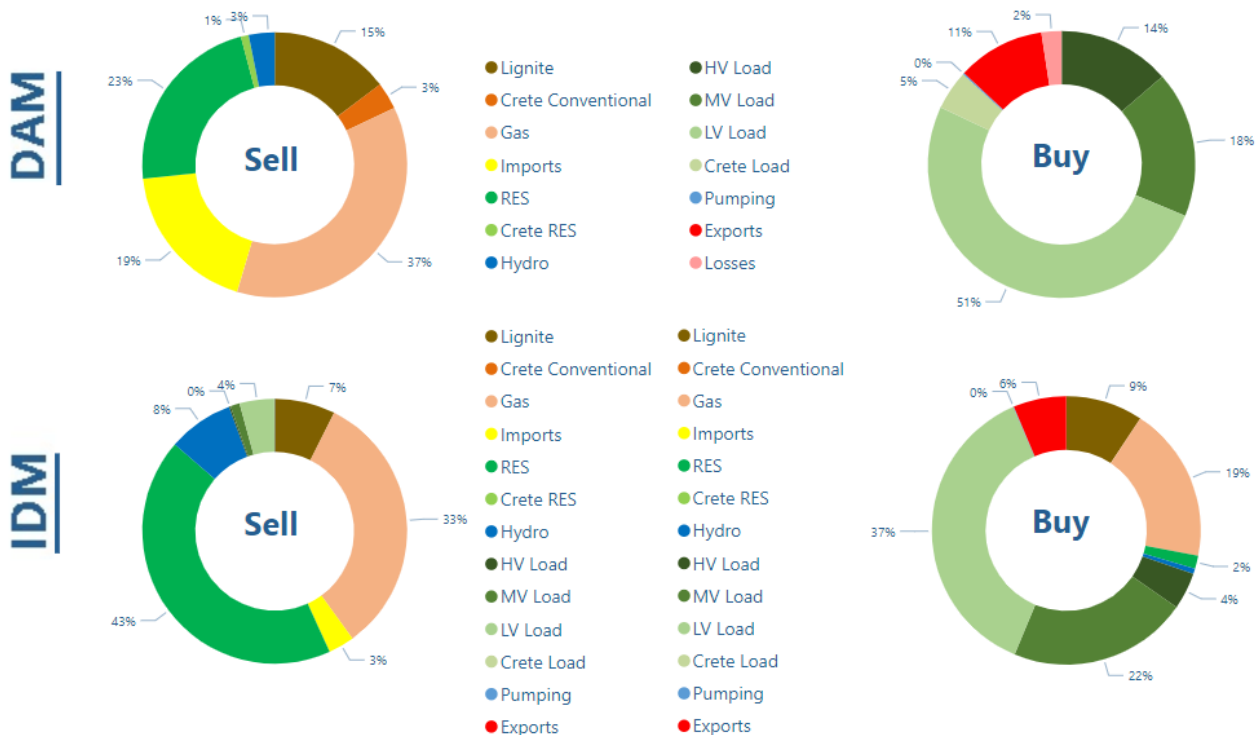
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Summary

	Dec 2022	Nov 2022	Dec 2021	DAM	CRIDA1	CRIDA2	CRIDA3	NGAS*
 Price				276.89	281.89	273.38	277.57	99.07
				227.75	225.09	212.60	226.36	90.68
				235.38	234.23	233.08	256.79	
 Volume				4,488	32.2	18.7	16.2	515.63
				4,109	59.7	59.3	29.4	502.47
				5,535	59.3	44.4	43.4	
 Value				1,288.1	8.93	5.12	5.02	51.08
				973.7	13.67	13.64	7.19	45.56
				1,358.6	15.65	10.96	10.96	

*The NGAS and XBID Price (€/MWh) refers 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



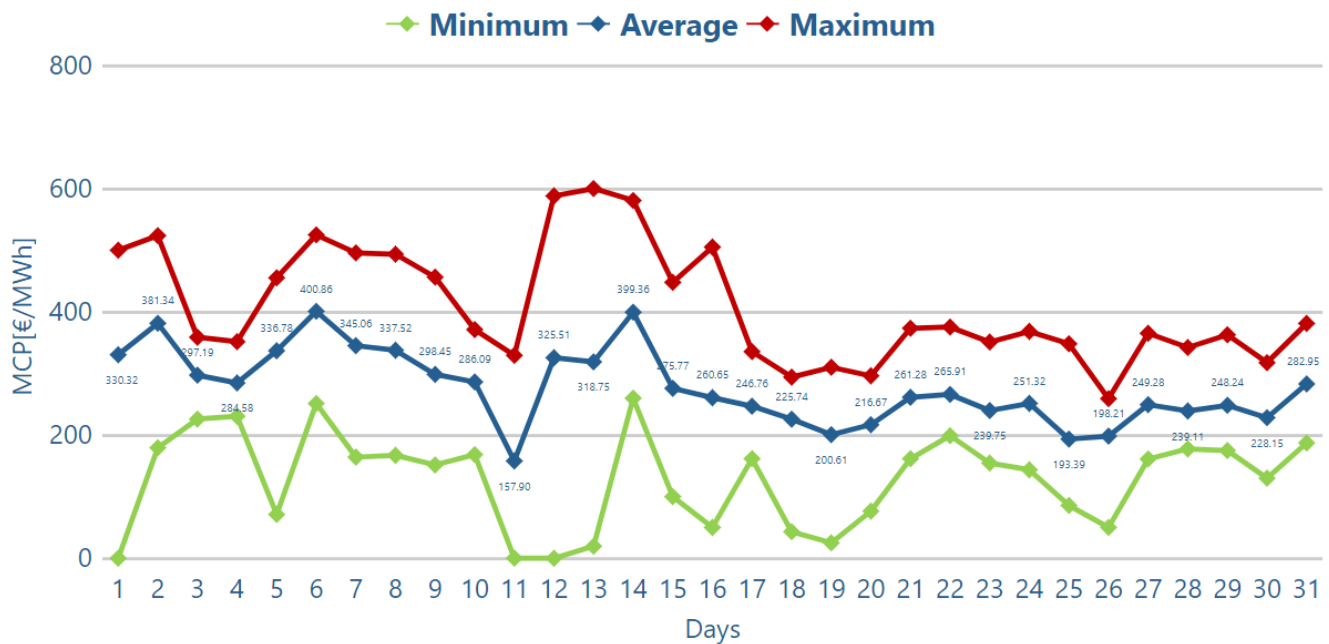
1. DAM

Market Clearing Price (MCP)

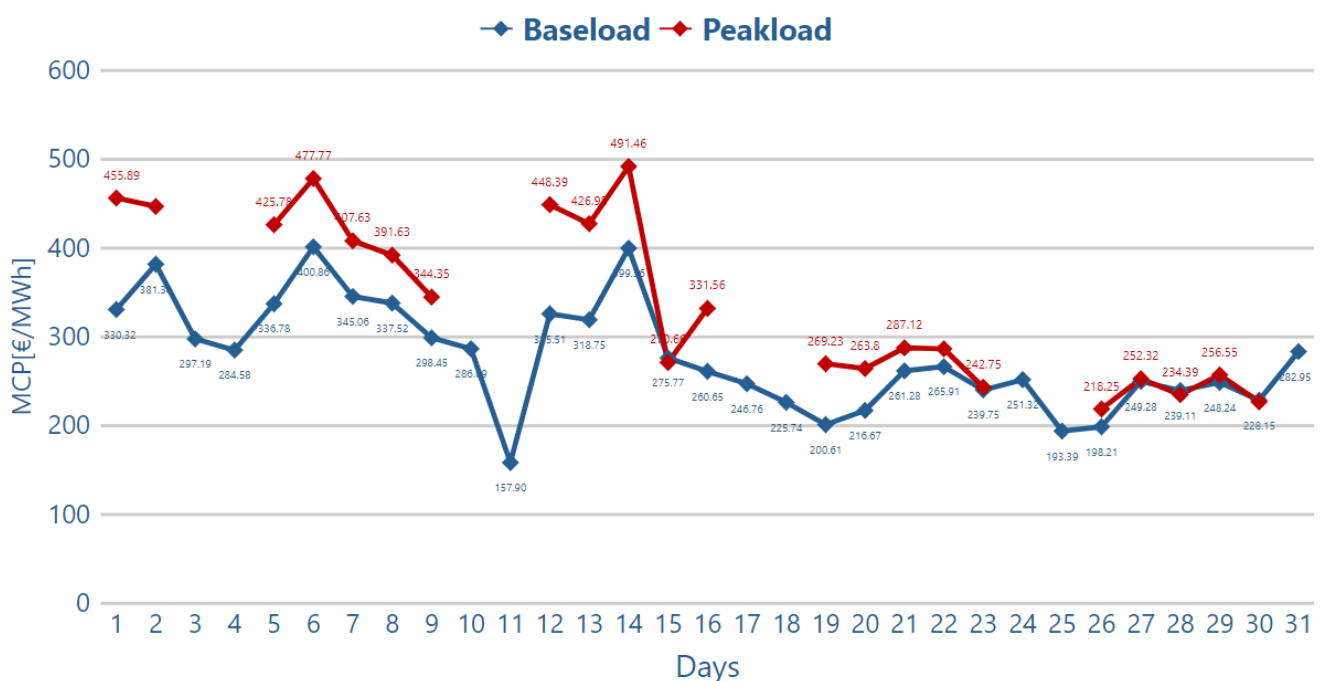
Volumes, technologies and order types

Interconnections

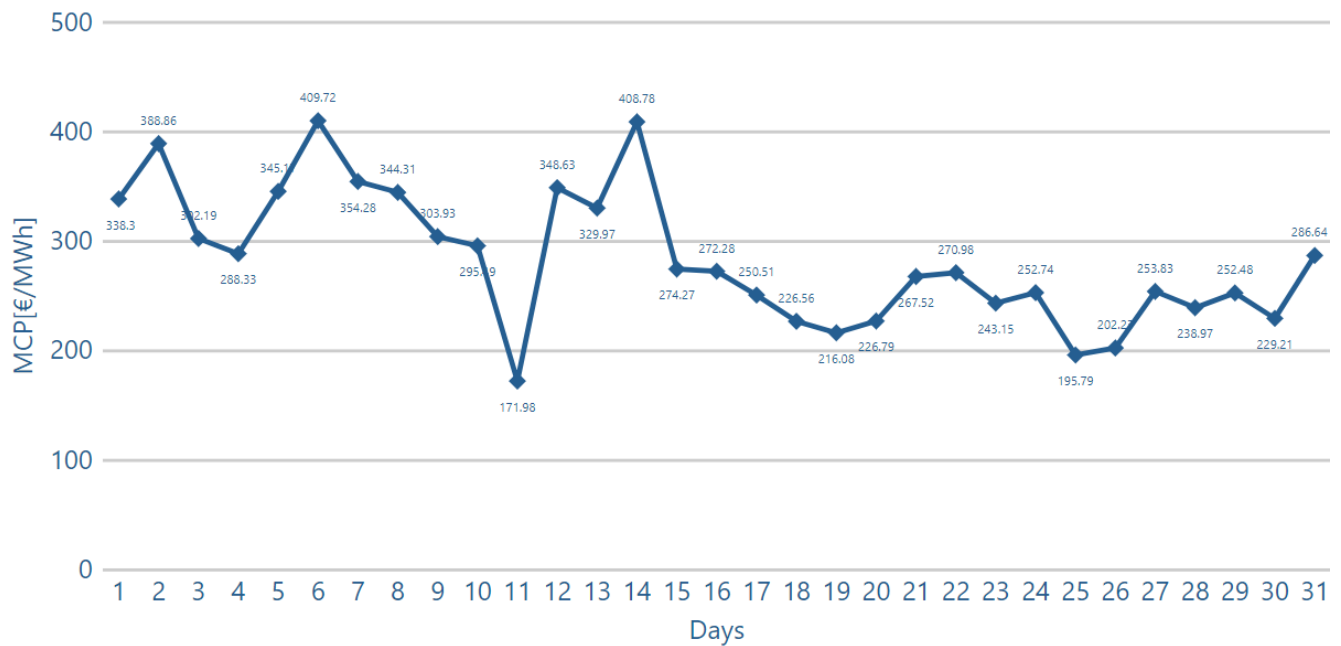
1.1. Daily MCP data of GR BZ



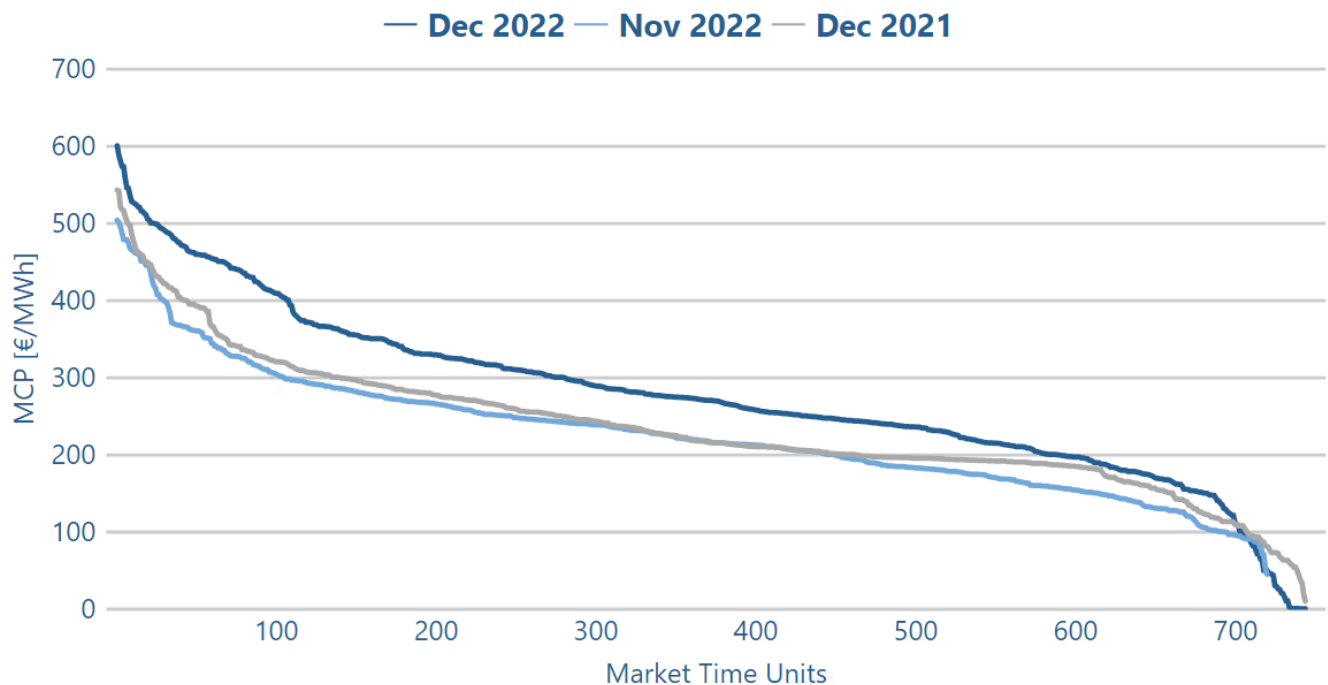
1.2. Daily average prices



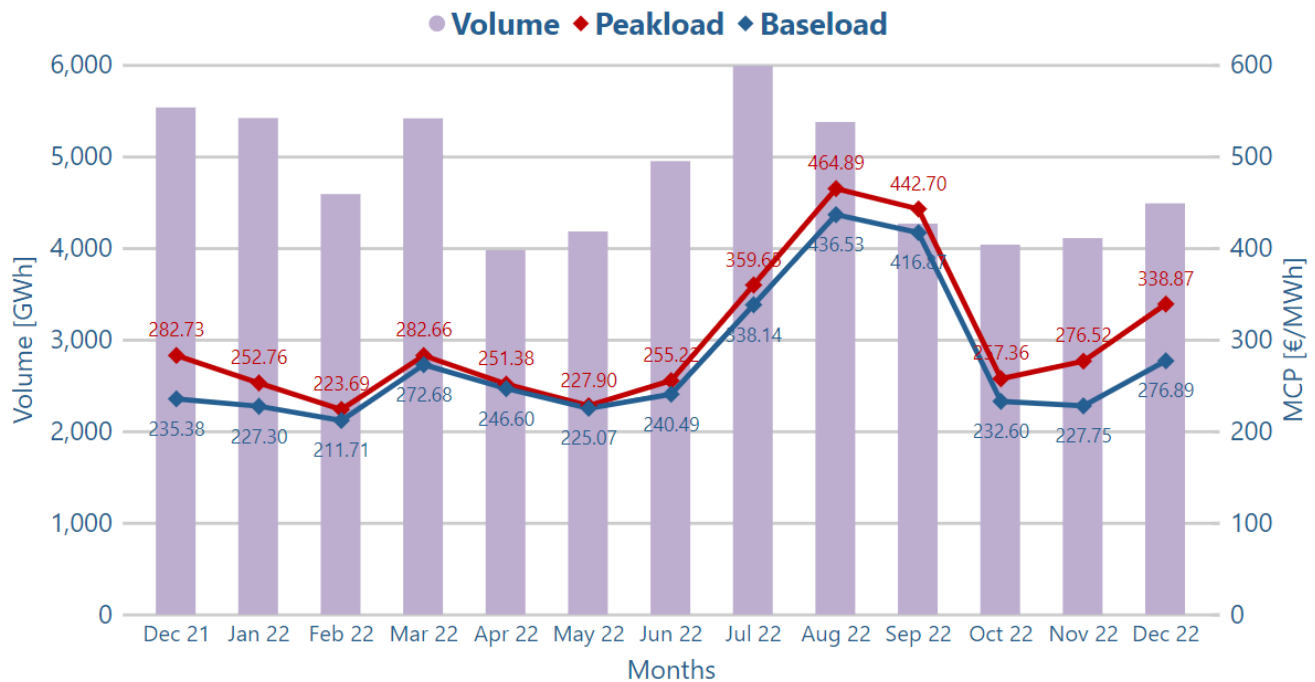
1.3. Daily weighted average baseload price



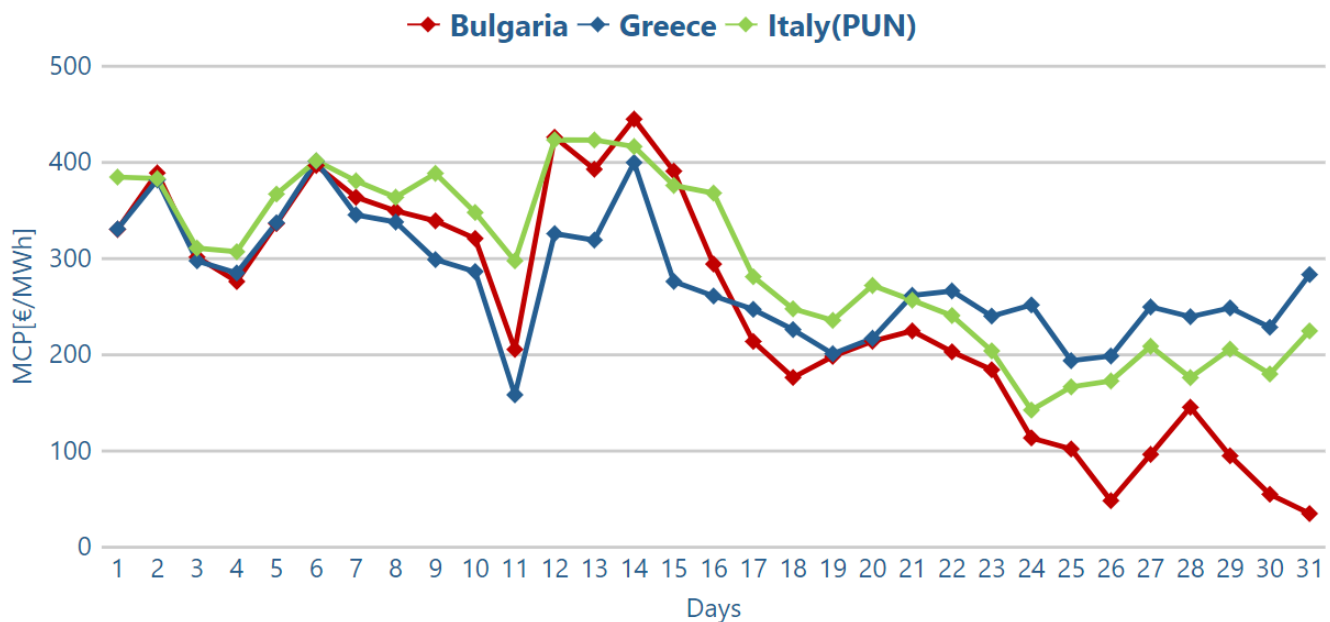
1.4. MCP duration curve



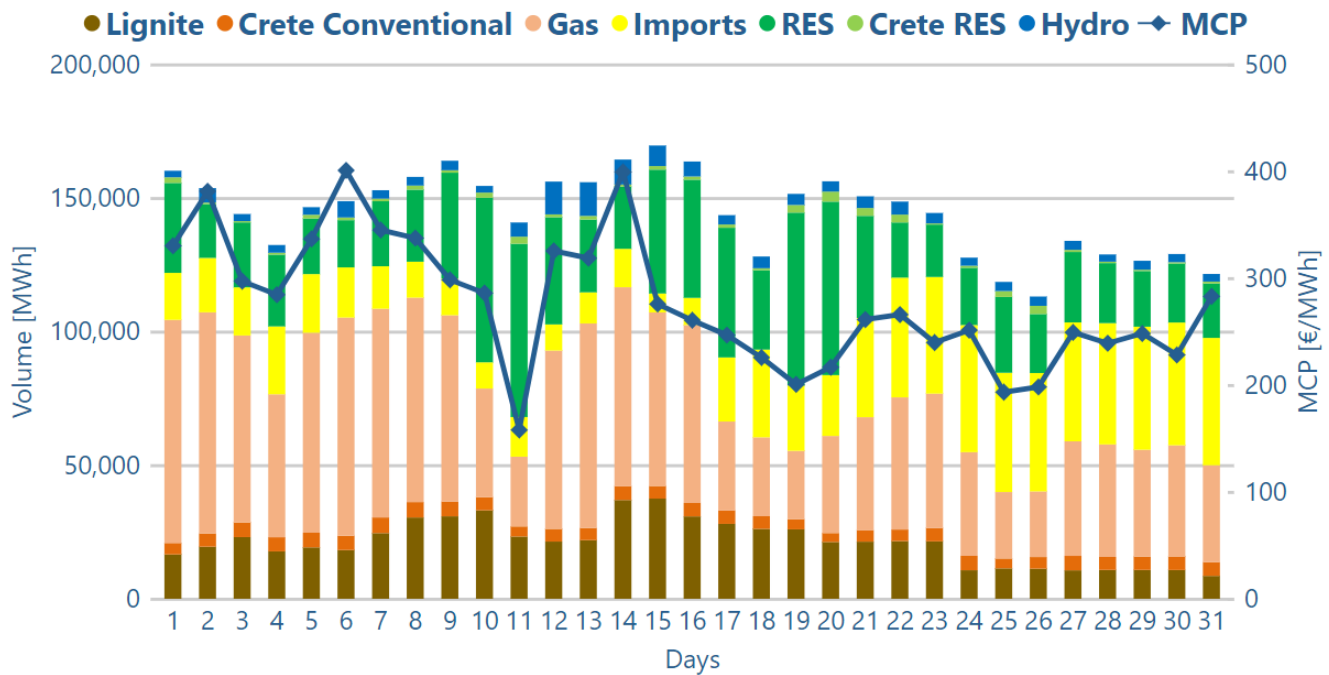
1.5. Monthly volume and average prices



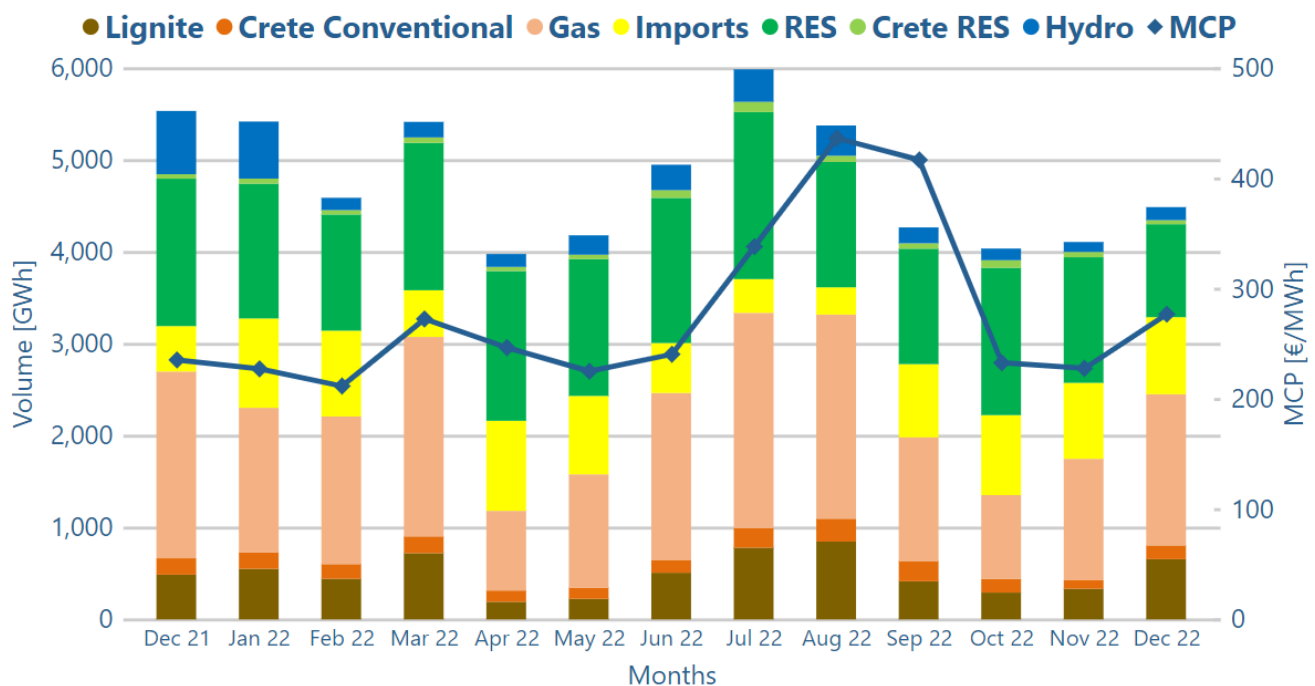
1.6. Daily average MCP of GR, IT, BG*



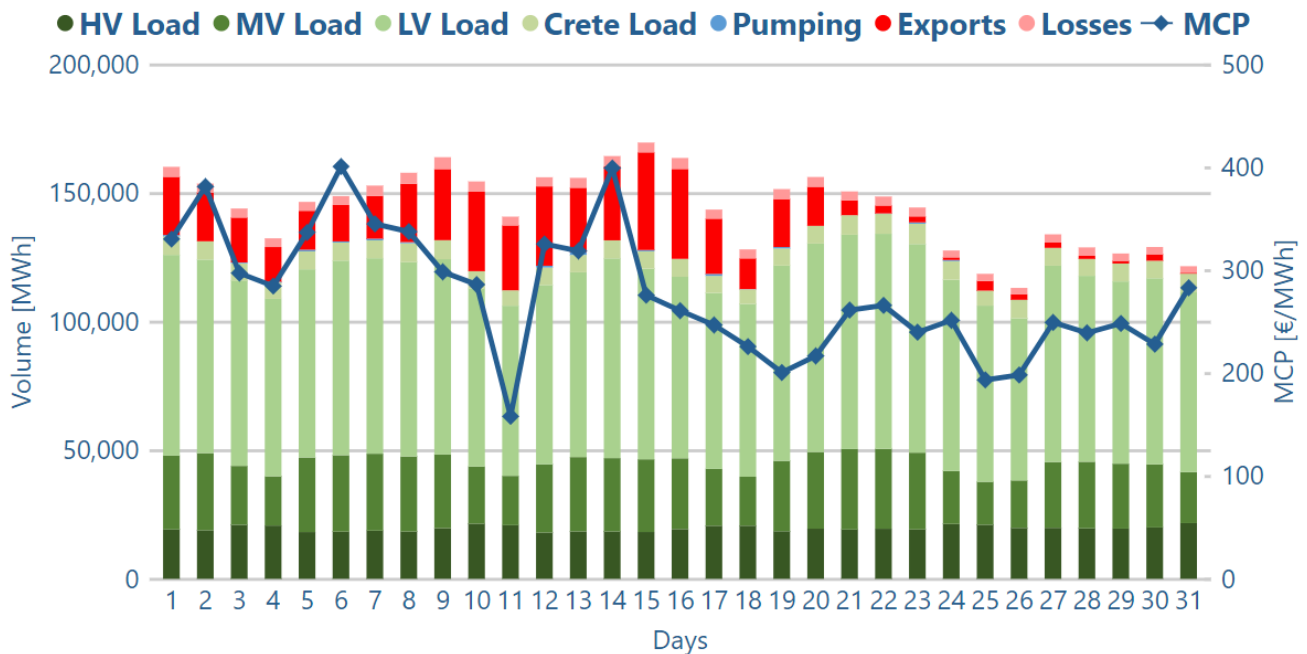
1.7. Volume mix of sell side per day



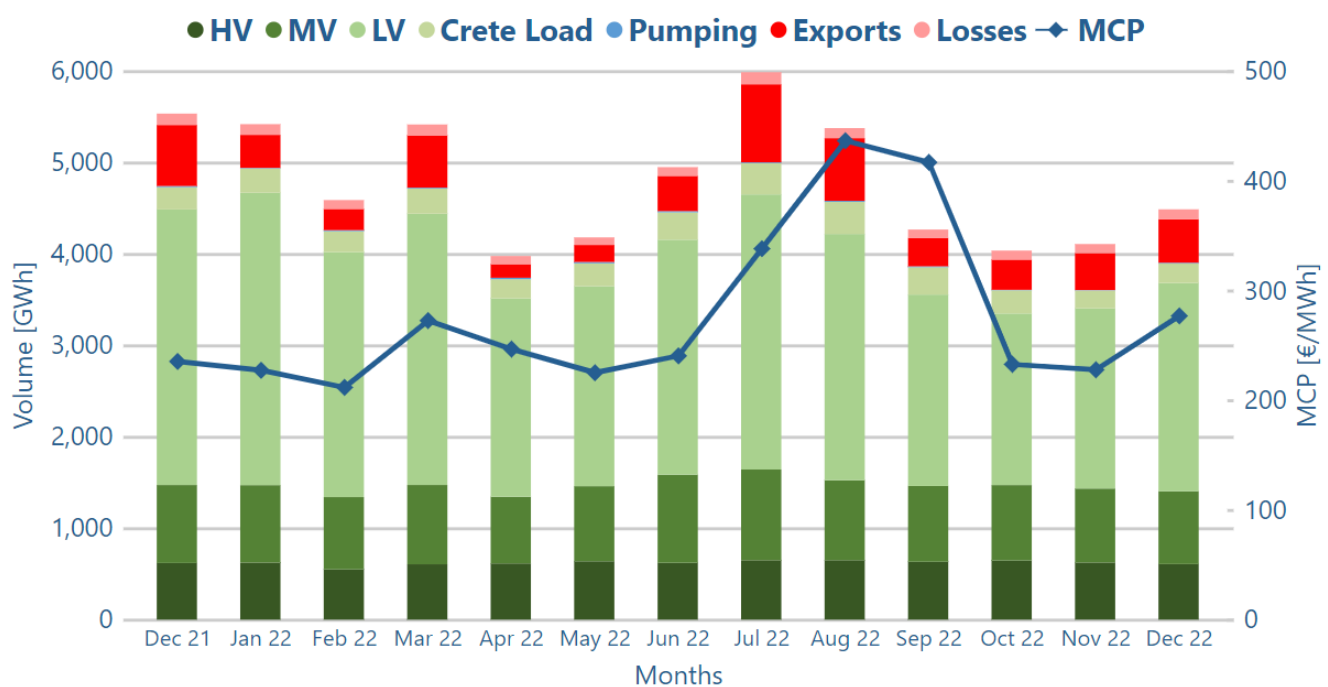
1.8. Volume mix of sell side per month



1.9. Volume mix of buy side per day



1.10. Volume mix of buy side per month

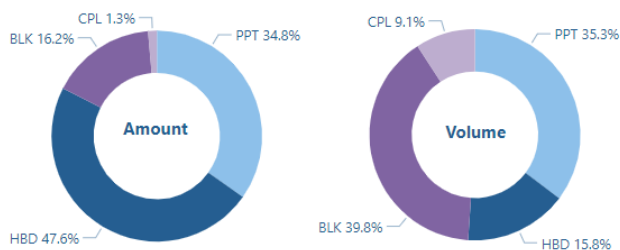


1.11. Table with MCP and volume per month

Year	Month	Minimum MCP [€/MWh]	Average MCP [€/MWh]		Maximum MCP [€/MWh]	Peakload MCP [€/MWh]		Volume [Gwh]
2021	December	9.70	235.38	↗ 3%	542.50	282.73	↗ 7%	5,535
2022	January	9.70	227.30	↘ -3%	377.40	252.76	↘ -11%	5,420
2022	February	83.65	211.71	↘ -7%	349.00	223.69	↘ -11%	4,590
2022	March	98.32	272.68	↗ 29%	600.07	282.66	↗ 26%	5,417
2022	April	0.09	246.60	↘ -10%	403.14	251.38	↘ -11%	3,978
2022	May	60.80	225.07	↘ -9%	338.65	227.90	↘ -9%	4,181
2022	June	20.23	240.49	↗ 7%	470.90	255.22	↗ 12%	4,950
2022	July	87.38	338.14	↗ 41%	686.25	359.65	↗ 41%	5,988
2022	August	90.00	436.53	↗ 29%	936.33	464.89	↗ 29%	5,377
2022	September	28.45	416.87	↘ -5%	742.72	442.70	↘ -5%	4,267
2022	October	30.53	232.60	↘ -44%	620.00	257.36	↘ -42%	4,037
2022	November	44.70	227.75	↘ -2%	503.55	276.52	↗ 7%	4,109
2022	December	-0.01	276.89	↗ 22%	600.10	338.87	↗ 23%	4,488

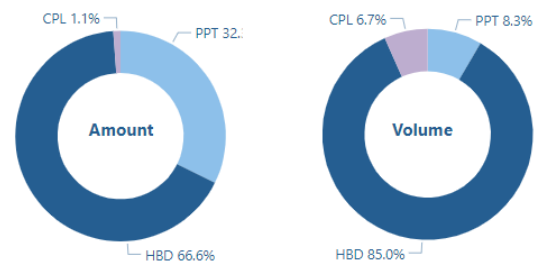
1.12. Trades per Order type

Sell Side



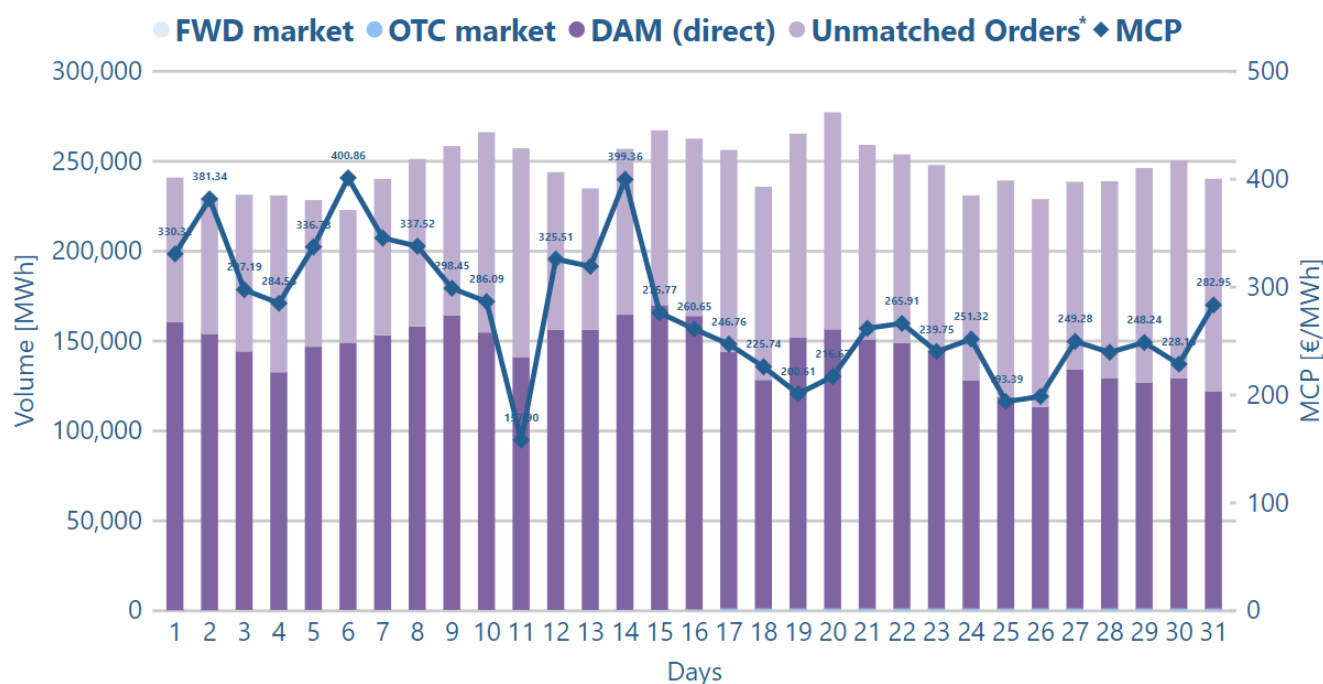
	PPT	HBD	BLK	CPL
Amount	21033	28783	9789	813
Volume [GWh]	1584	707	1787	410

Buy Side



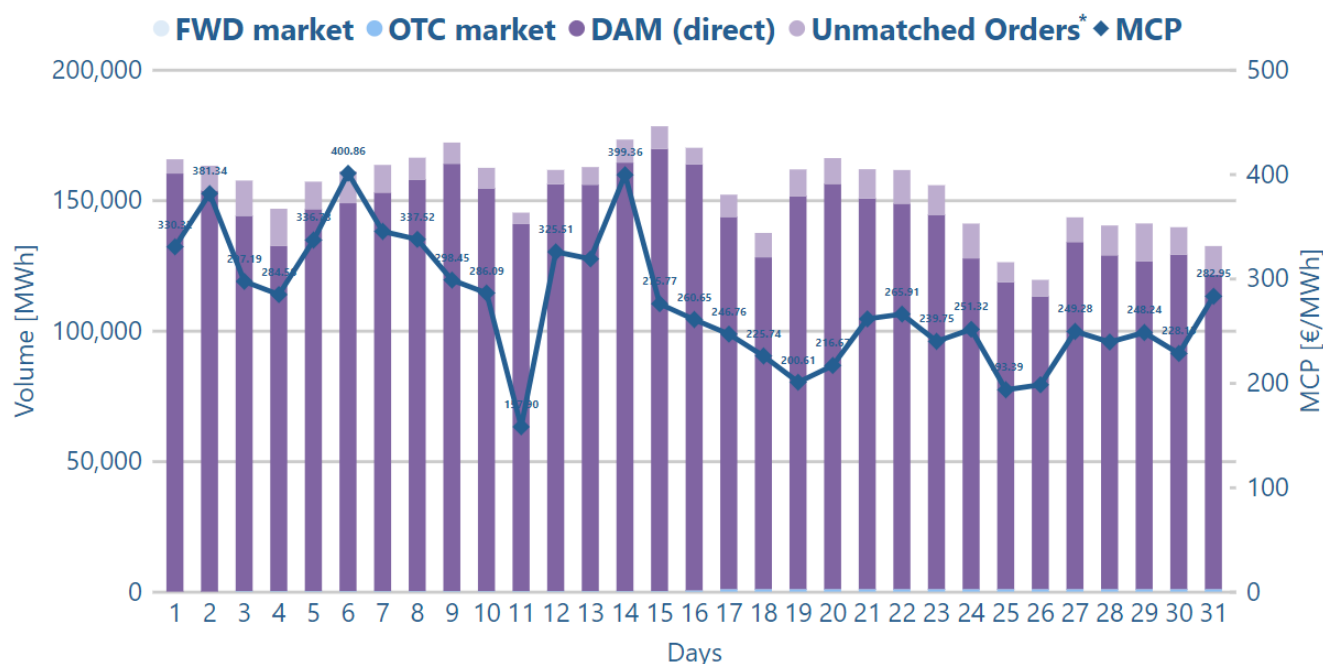
	PPT	HBD	CPL
Amount	19853	40899	675
Volume [GWh]	374	3814	300

1.13. Total volume and traded volume per Market Source of sell orders



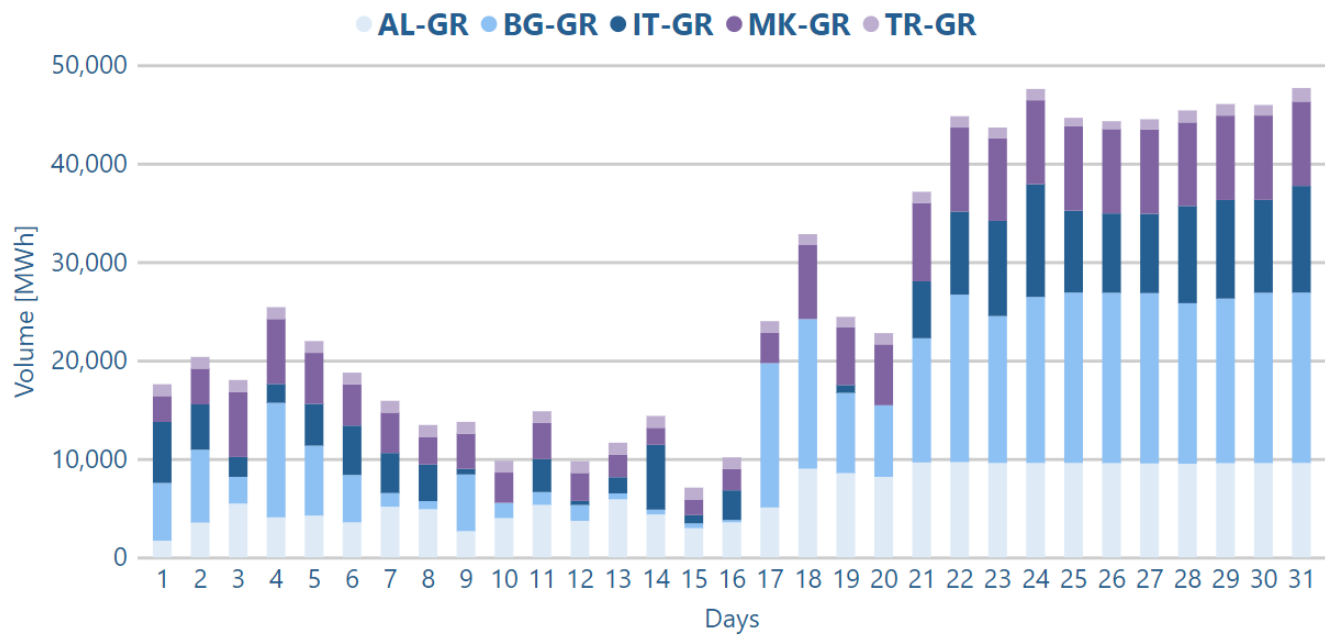
*The Unmatched Orders include all sell orders that have not been included in the algorithm (excluding block orders).

1.14. Total volume and traded volume per Market Source of buy orders

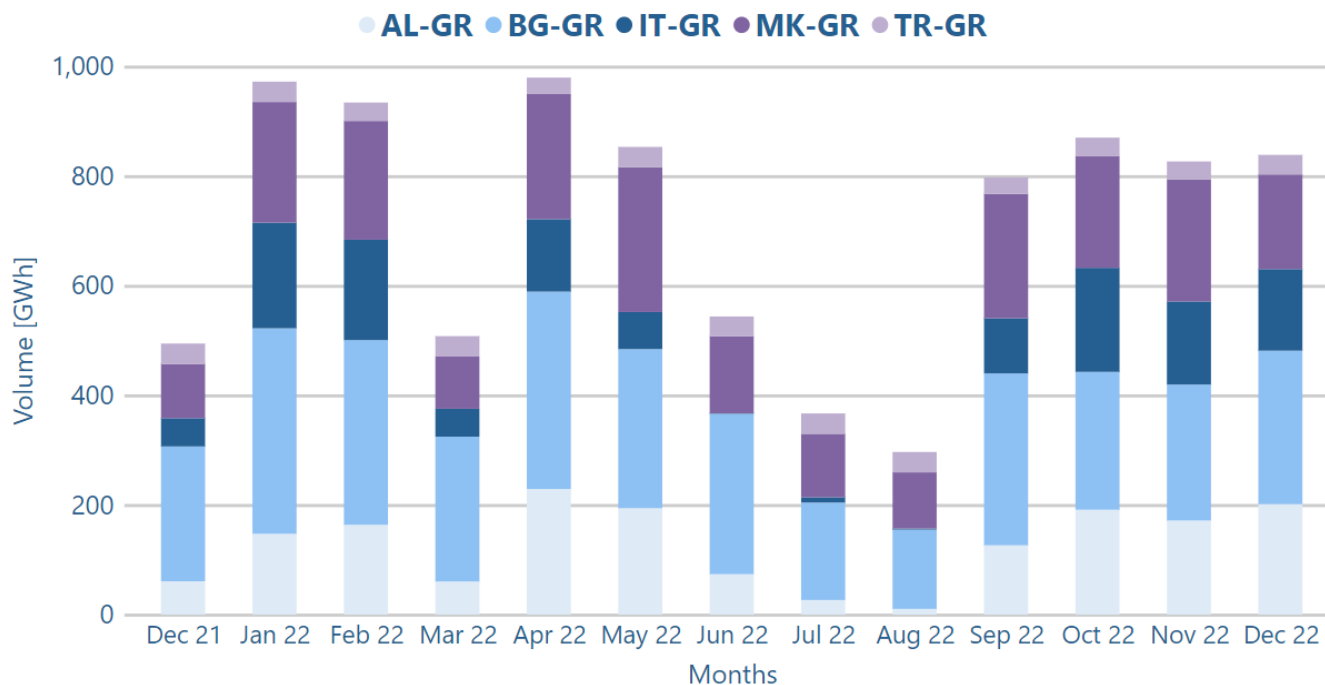


*The Unmatched Orders include all buy orders that have not been included in the algorithm.

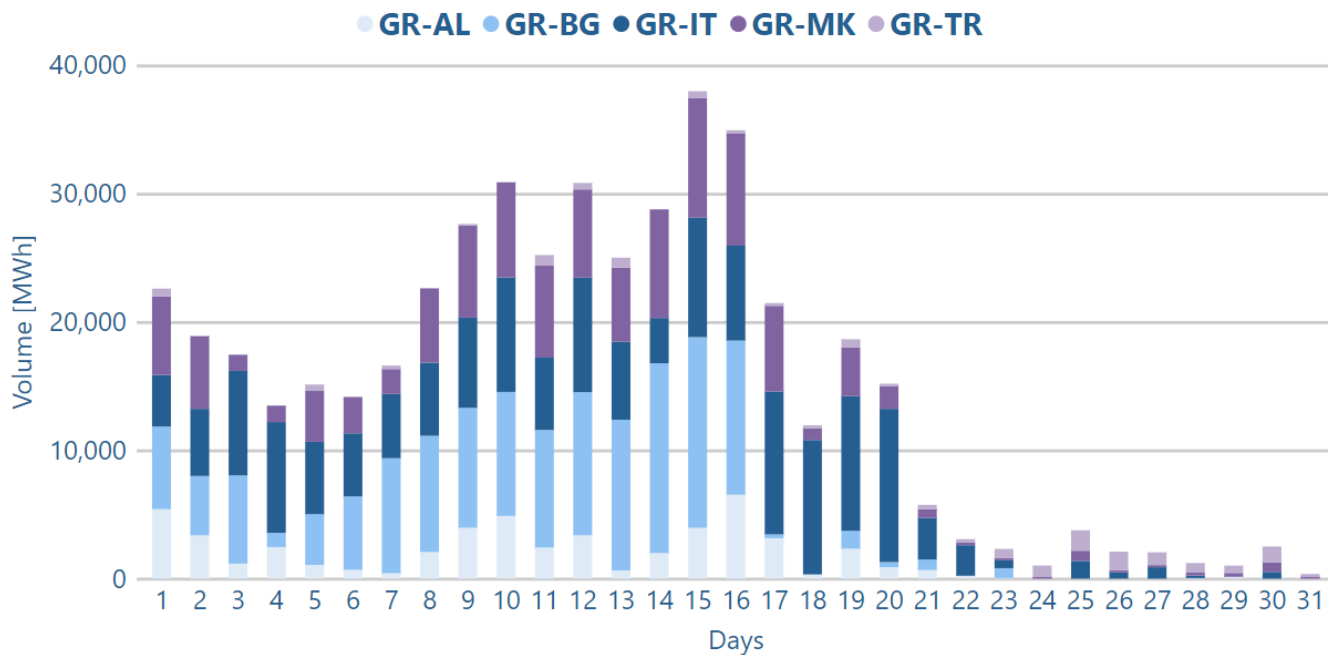
1.15. Cross Border volume · Imports per day



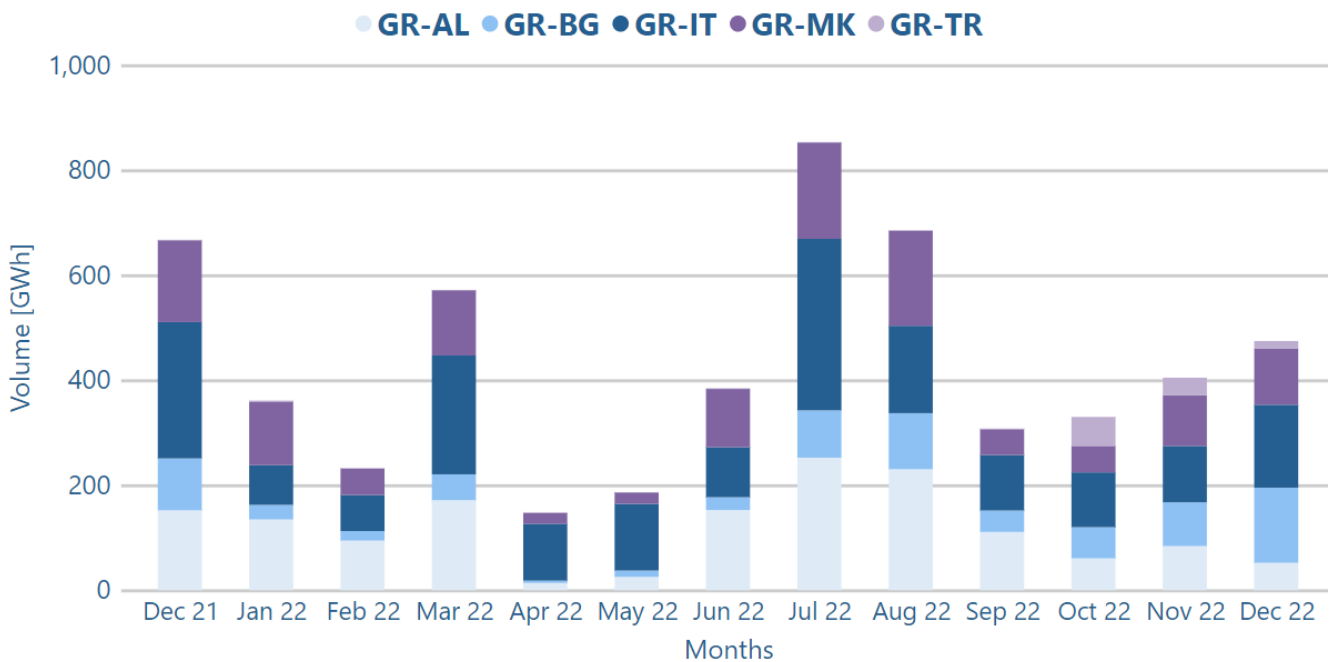
1.16. Cross Border Volume · Imports per month



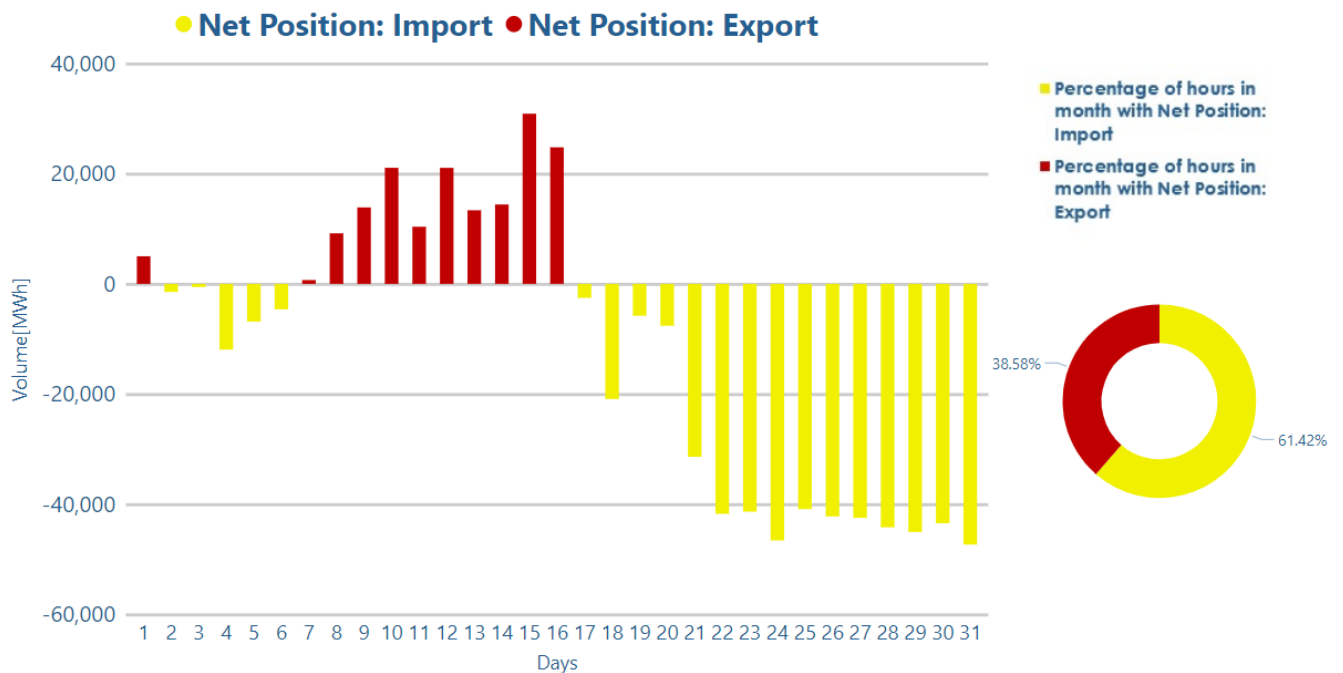
1.17. Cross Border volume · Exports per day



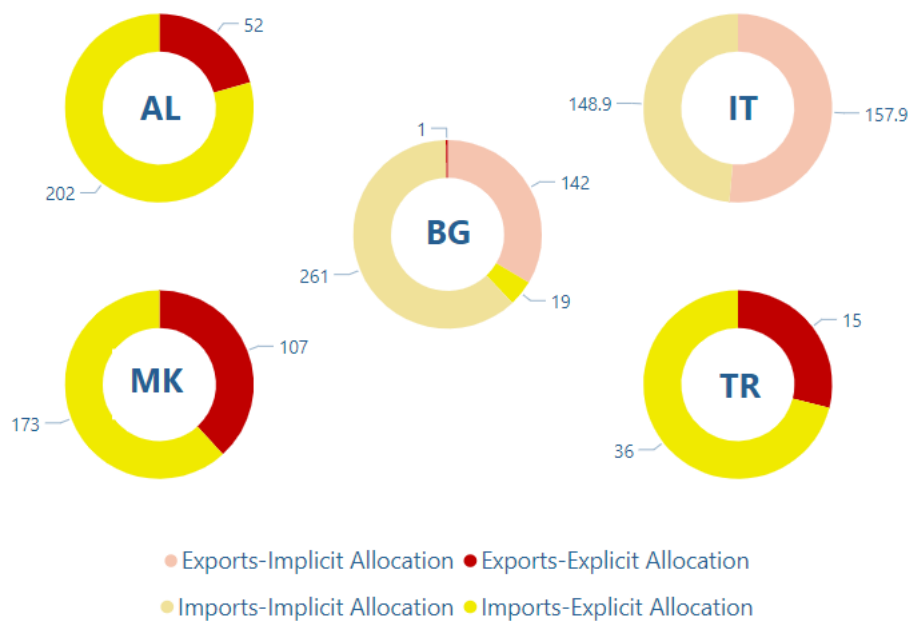
1.18. Cross Border Volume · Exports per month



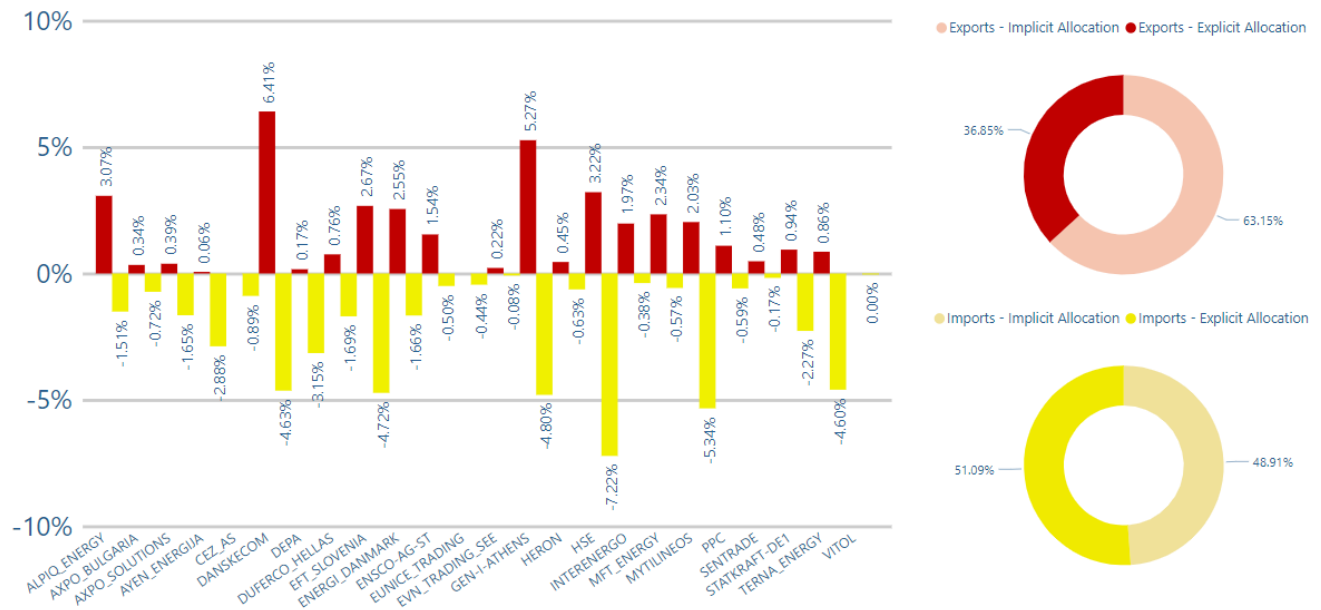
1.19. Net position of all cross-border flows



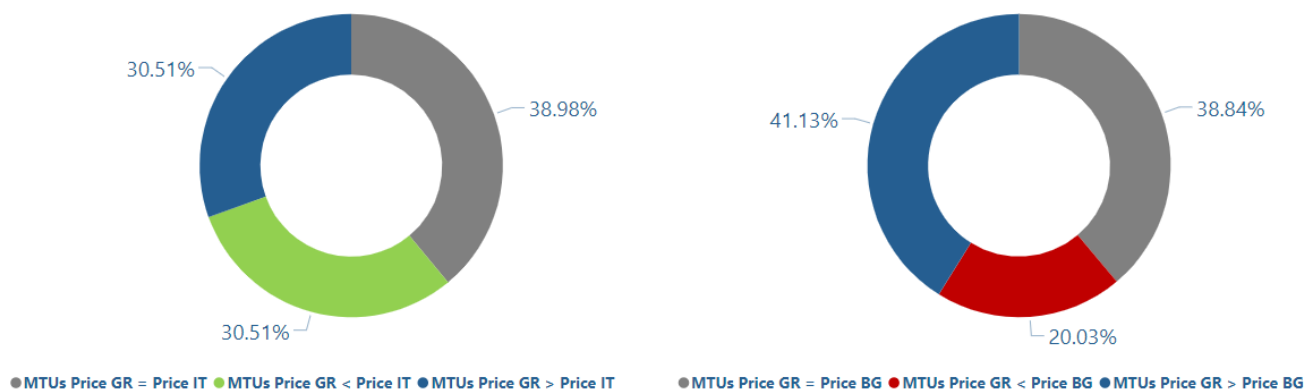
1.20. Cross Border Volumes (GWh) per Border



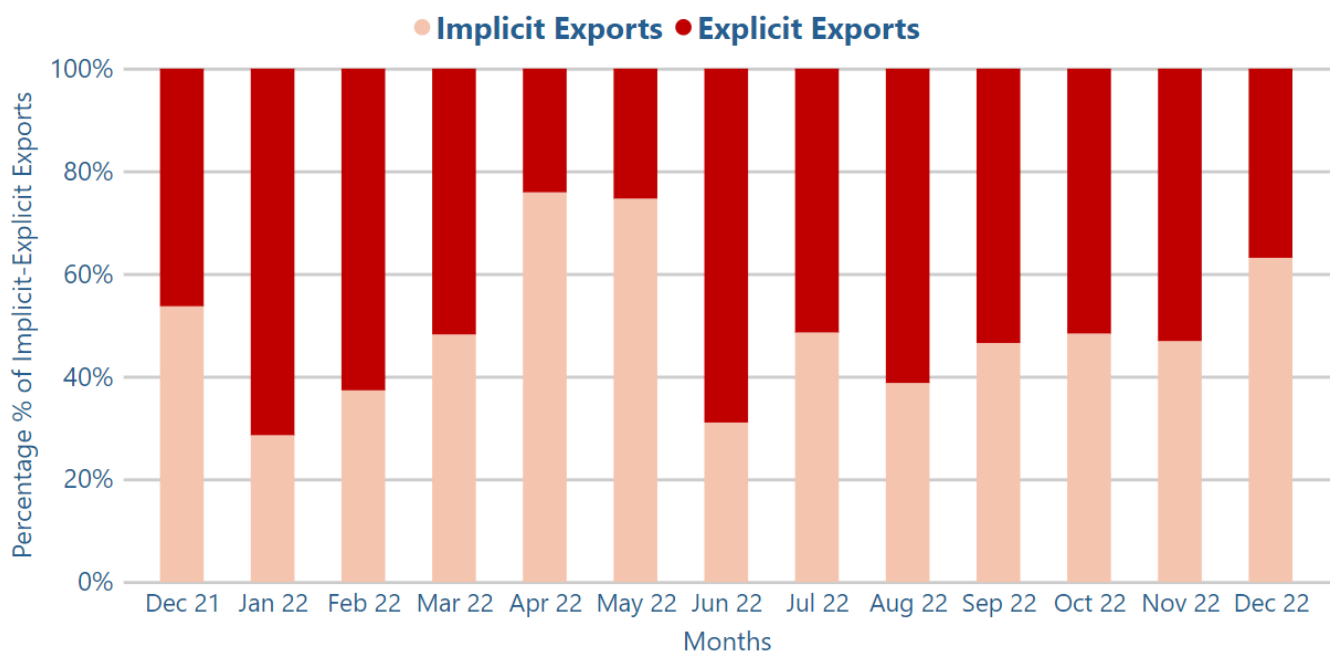
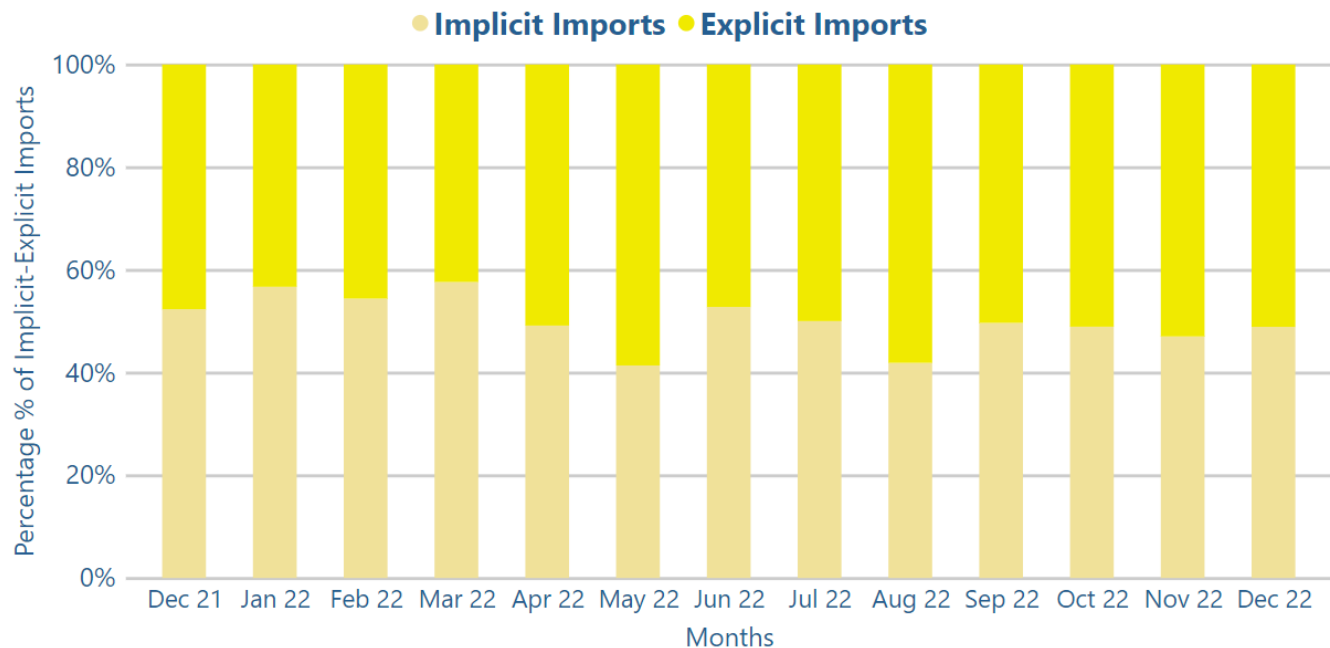
1.21. Market Shares of Imports and Exports per Market Participant



1.22. Price Coupling Data



1.23. Coupling Evolution

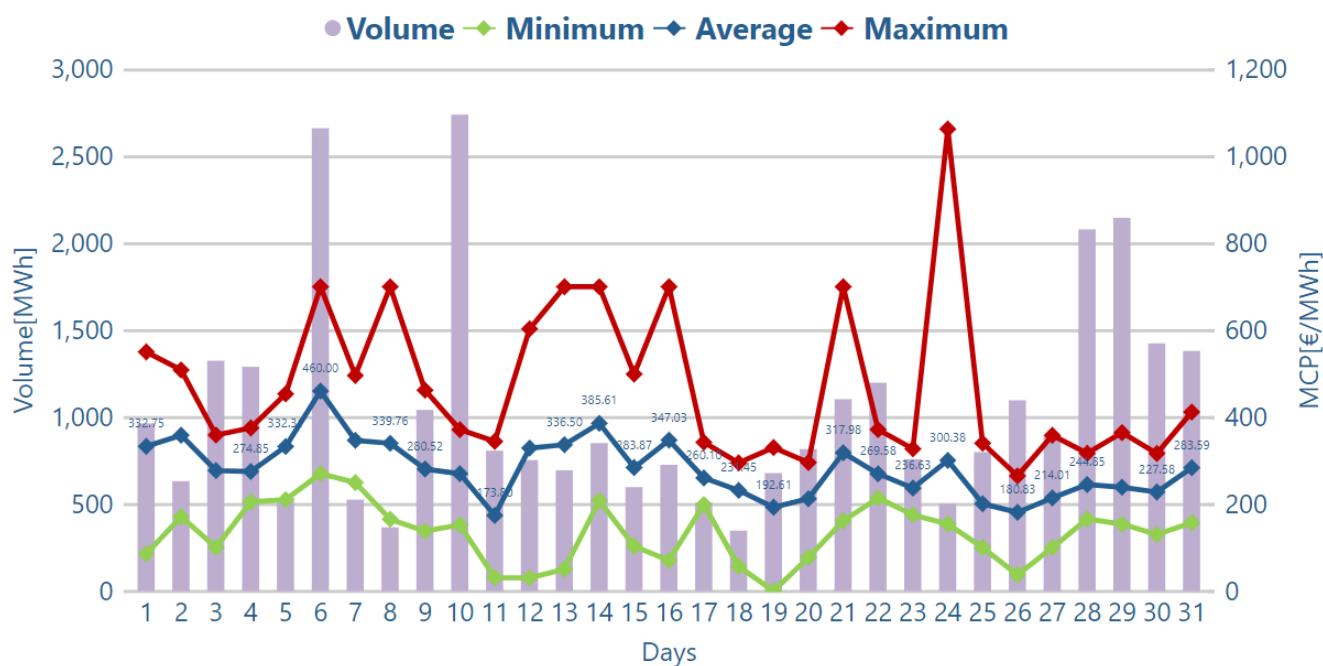


2. IDM

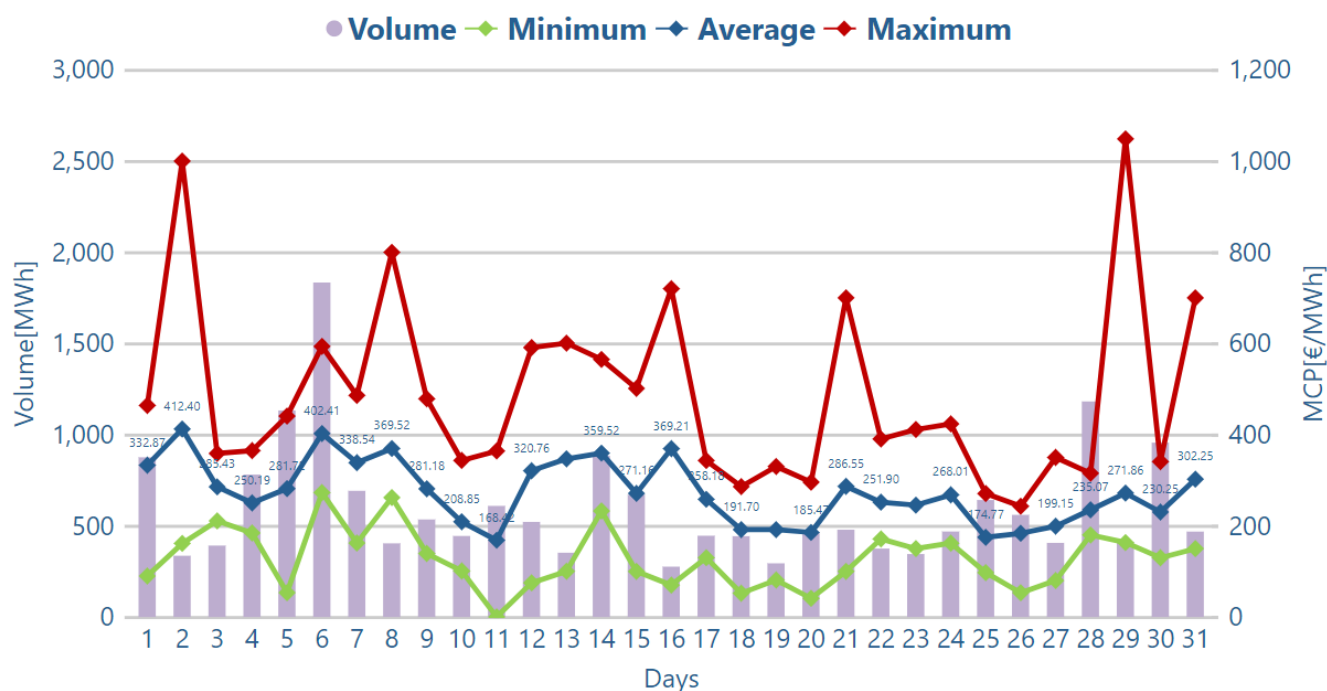
Market Clearing Prices (MCP)

Volumes, technologies and order types

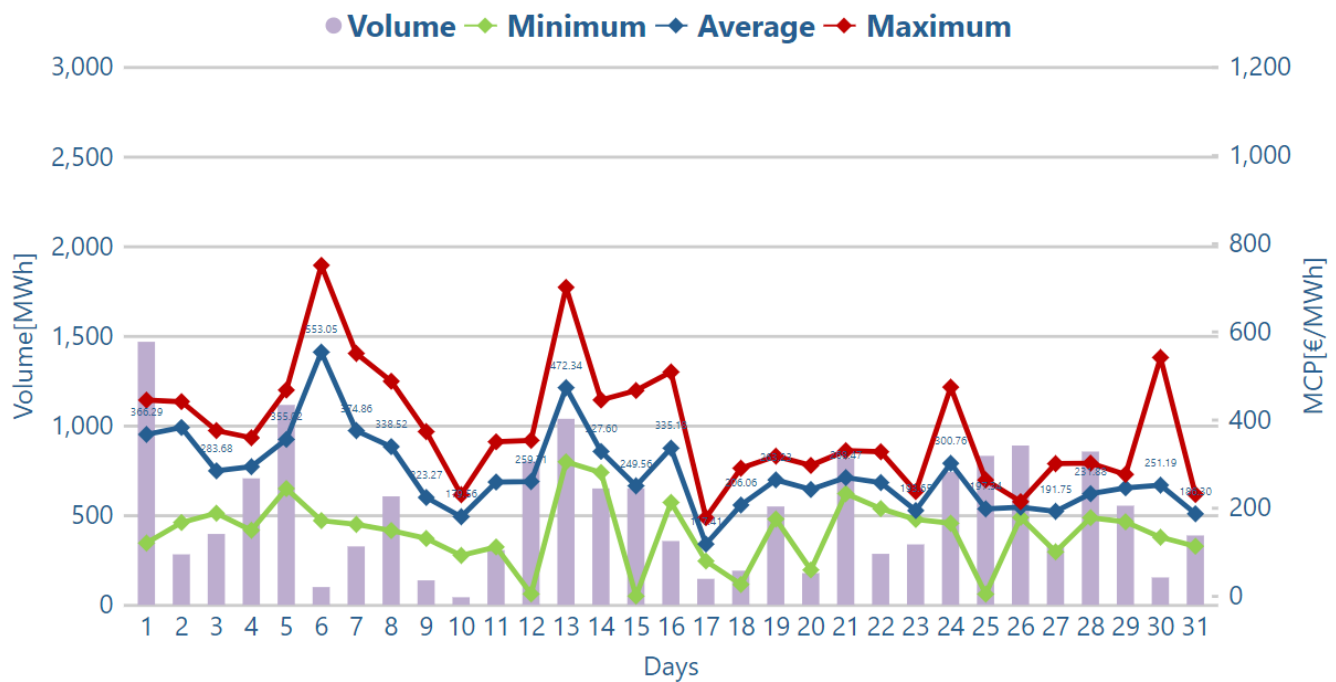
2.1. Daily MCP and volume · CRIDA1



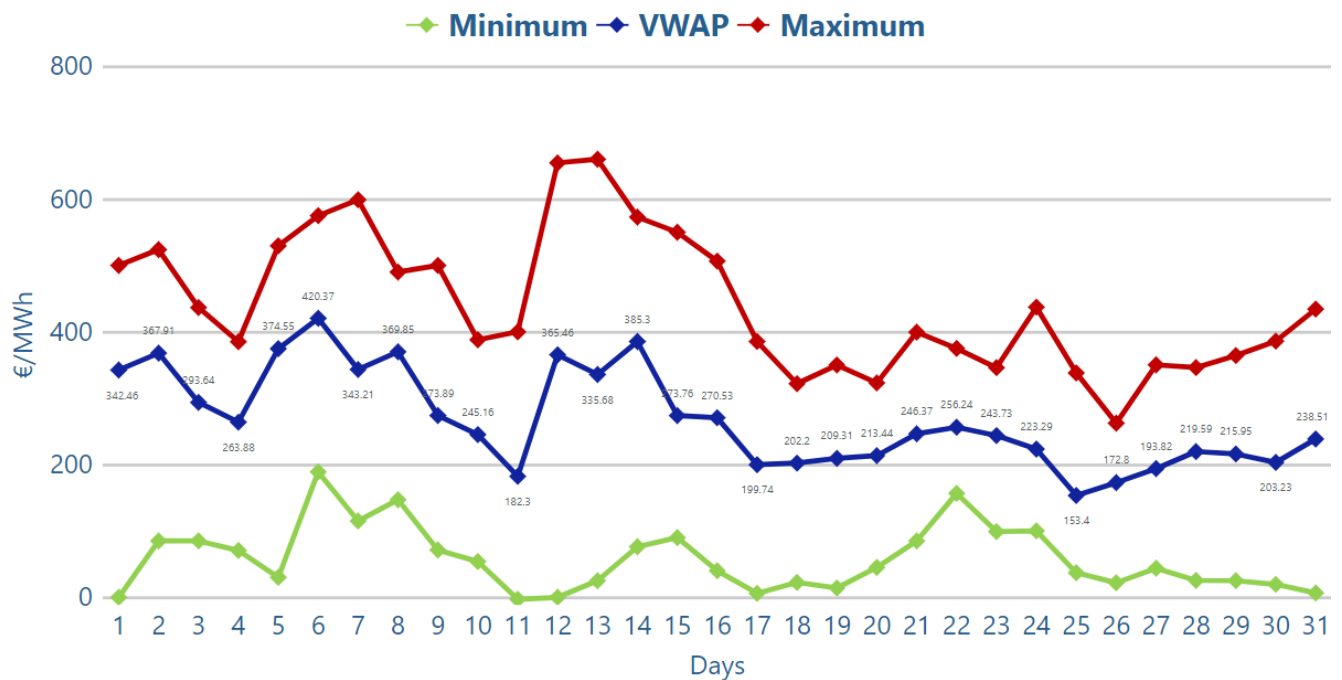
2.2. Daily MCP and volume · CRIDA2



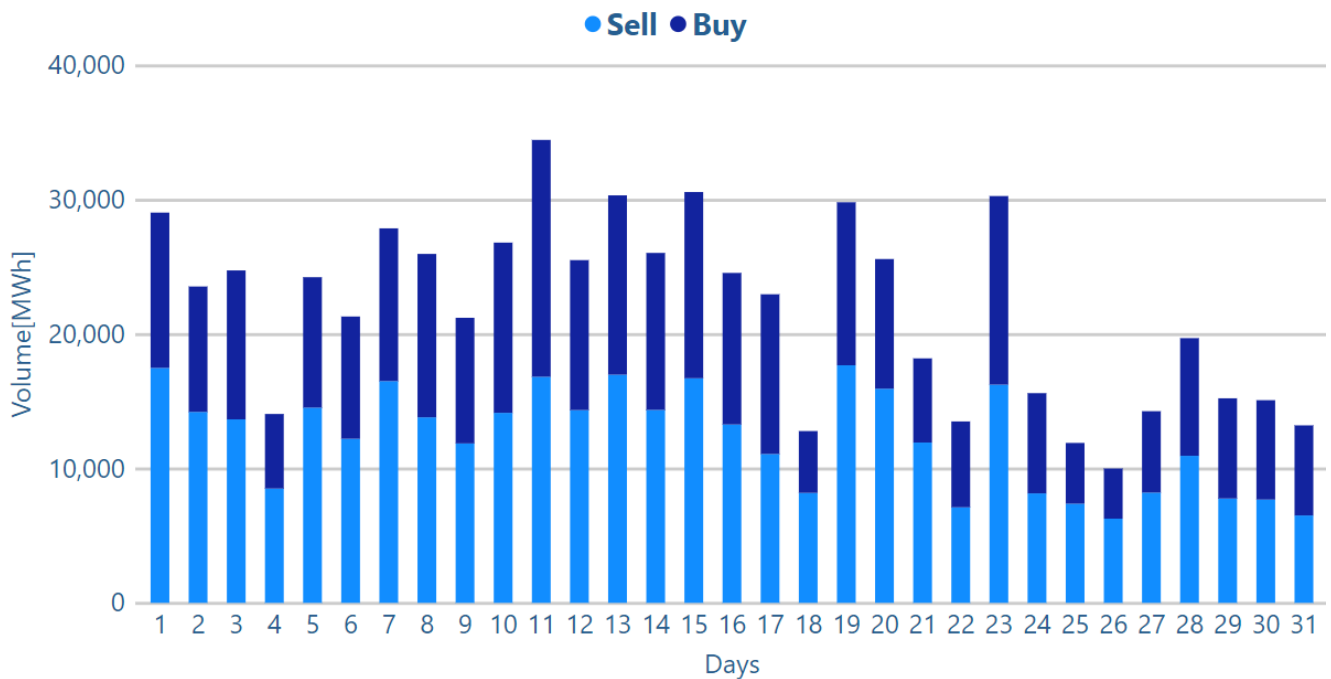
2.3. Daily MCP and volume · CRIDA3



2.4. Daily XBID Prices



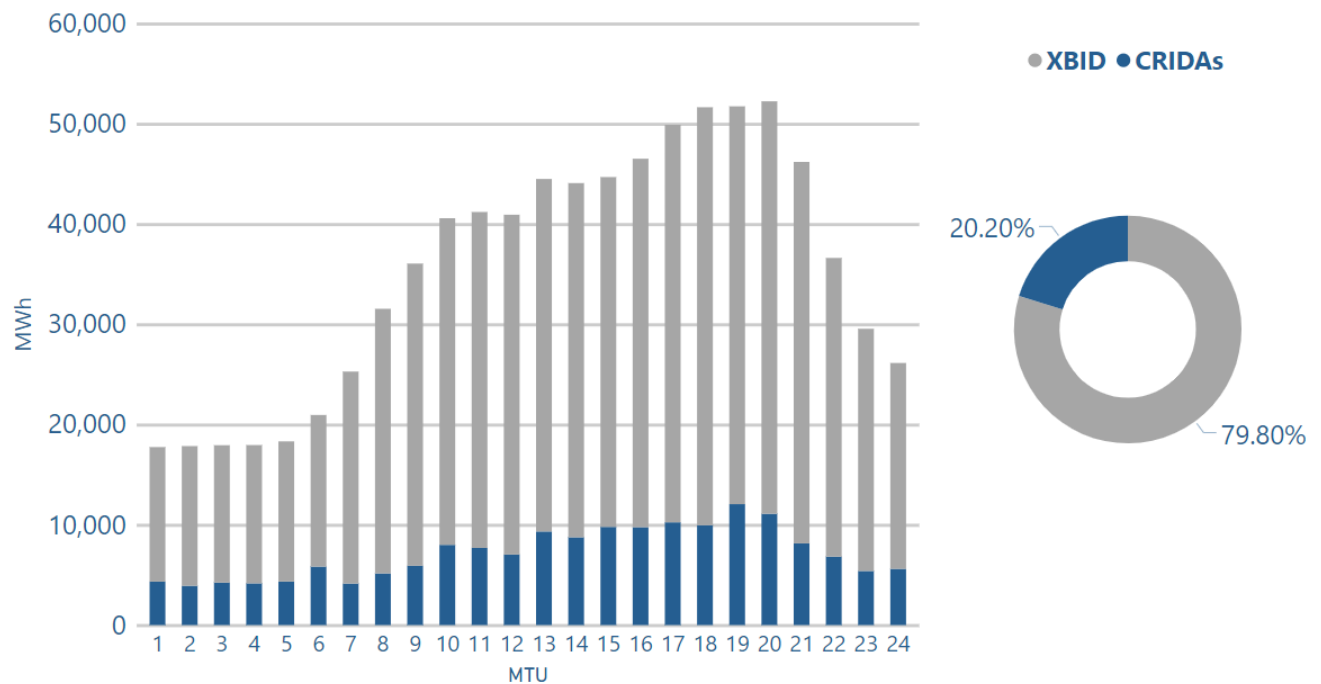
2.5. Daily XBID Volumes



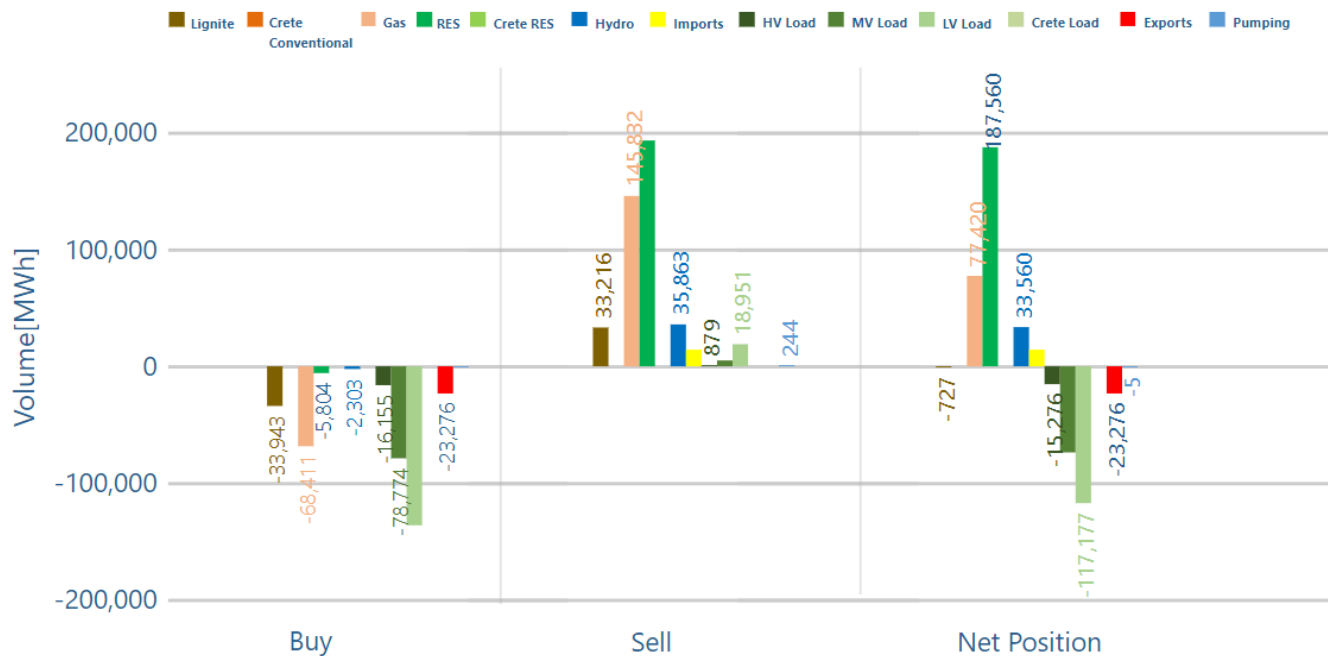
2.6. Table with MCP and volume

Year			2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022
Month			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CRIDA1	Price [€/MWh]	min	10.7	87.79	99.21	0	60.19	19.42	109.14	143.45	28.46	25	44.70	0
		avg	225.59	209.70	274.09	243.67	223.32	237.46	316.84	422.60	402.94	226.04	225.09	281.89
		max	390	349	665	423.30	388.65	464.58	681	991.84	715.06	635.50	700	1,063.15
	Volume [MWh]	65,510	40,311	70,891	52,098	52,839	34,436	162,941	183,959	146,571	86,125	59,666	32,236	
CRIDA2	Price [€/MWh]	min	4.7	83.75	99.11	0.01	60.90	20.13	0	126.29	28.45	29.92	44.70	0.20
		avg	226.23	208.97	272.01	245.06	221.25	236.83	288.59	395.14	387.59	205.56	212.60	273.38
		max	435	350	620.07	422.50	350	479	701	1011	900	636.55	750	1,048.65
	Volume [MWh]	38,357	38,727	51,291	41,923	41,935	39,002	45,893	45,307	60,862	66,295	59,260	18,677	
CRIDA3	Price [€/MWh]	min	64.74	123.76	98.61	0	64.30	24.11	0	82.95	-76.05	-41.27	43	-0.40
		avg	240.34	216.71	287.02	241.43	225.71	253.13	323.58	425.80	391.61	213.59	226.36	277.57
		max	444.02	350	599.97	394.70	350	469.04	726	1876	850	750	630	750
	Volume [MWh]	32,187	24,098	31,964	24,779	30,263	28,075	29,003	22,083	32,006	33,518	29,394	16,216	
XBID	Price [€/MWh]	min											129	-3
		VWAP											362.04	276.88
		max											493.55	660
	AV.Volume [MWh]												7,384	339,205

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

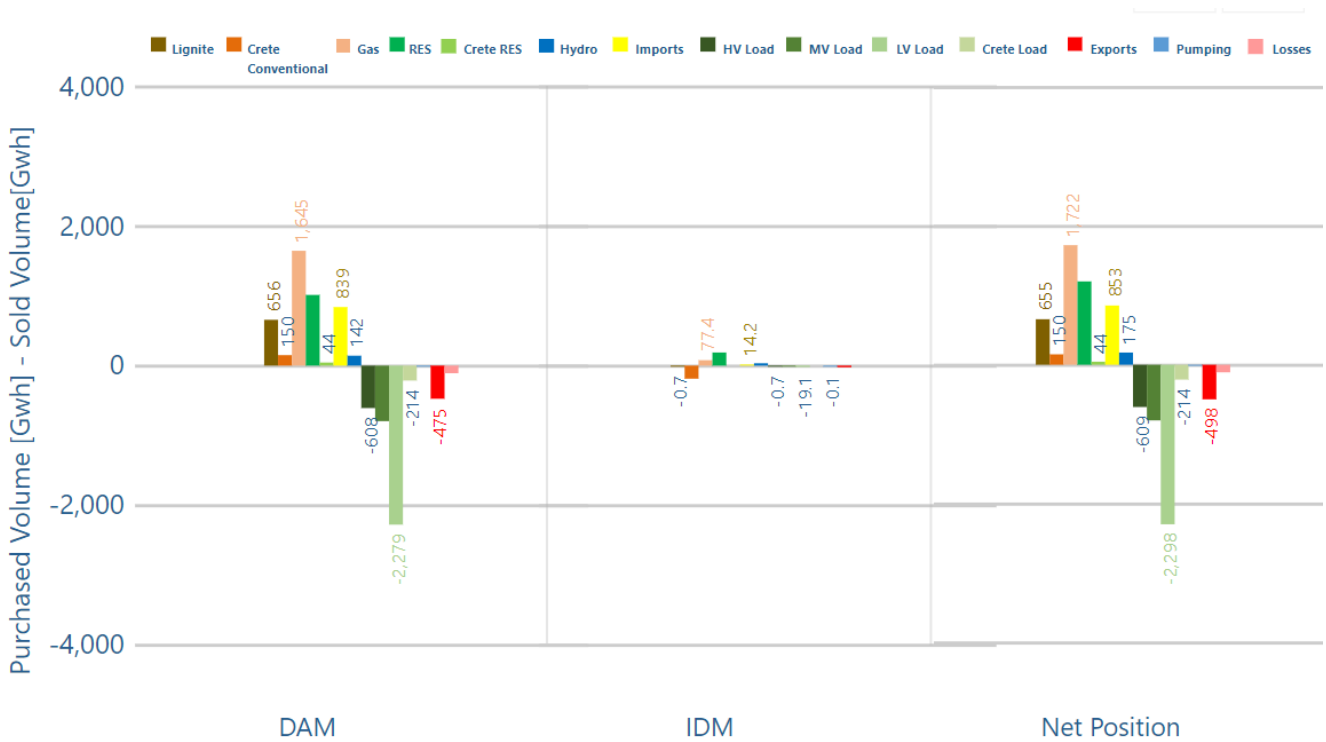
Final Market Schedules

Domestic Production

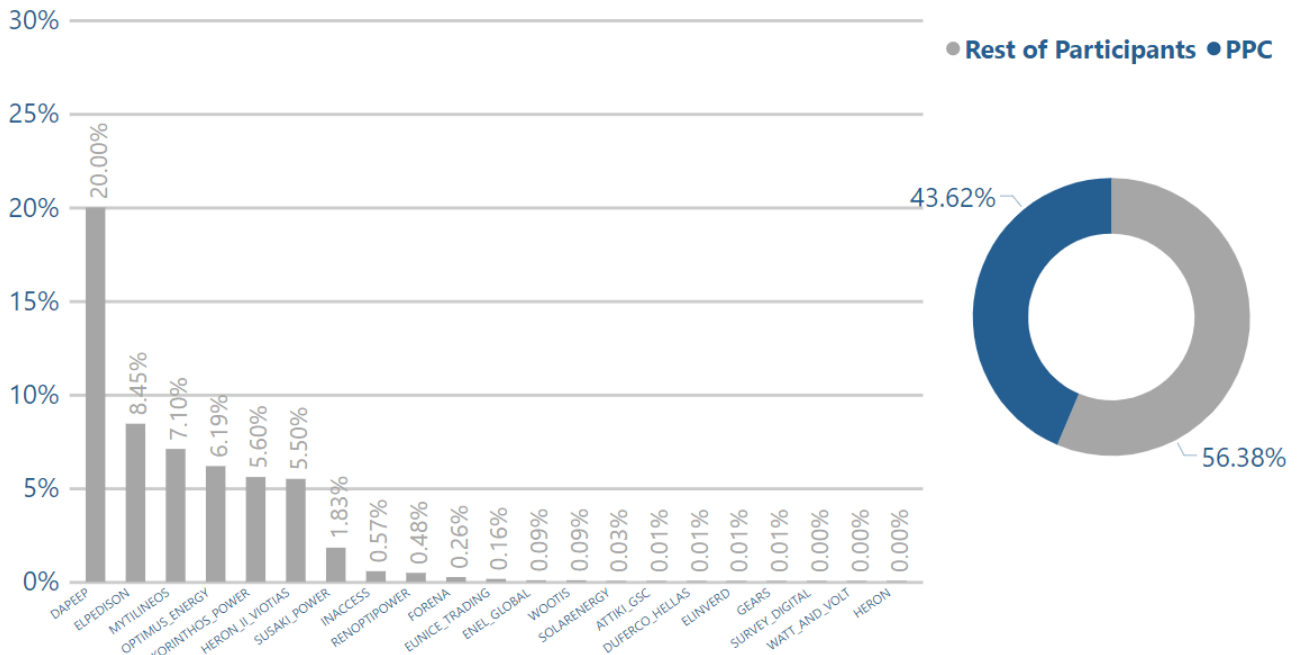
Domestic Consumption

Domestic Consumption per Voltage level

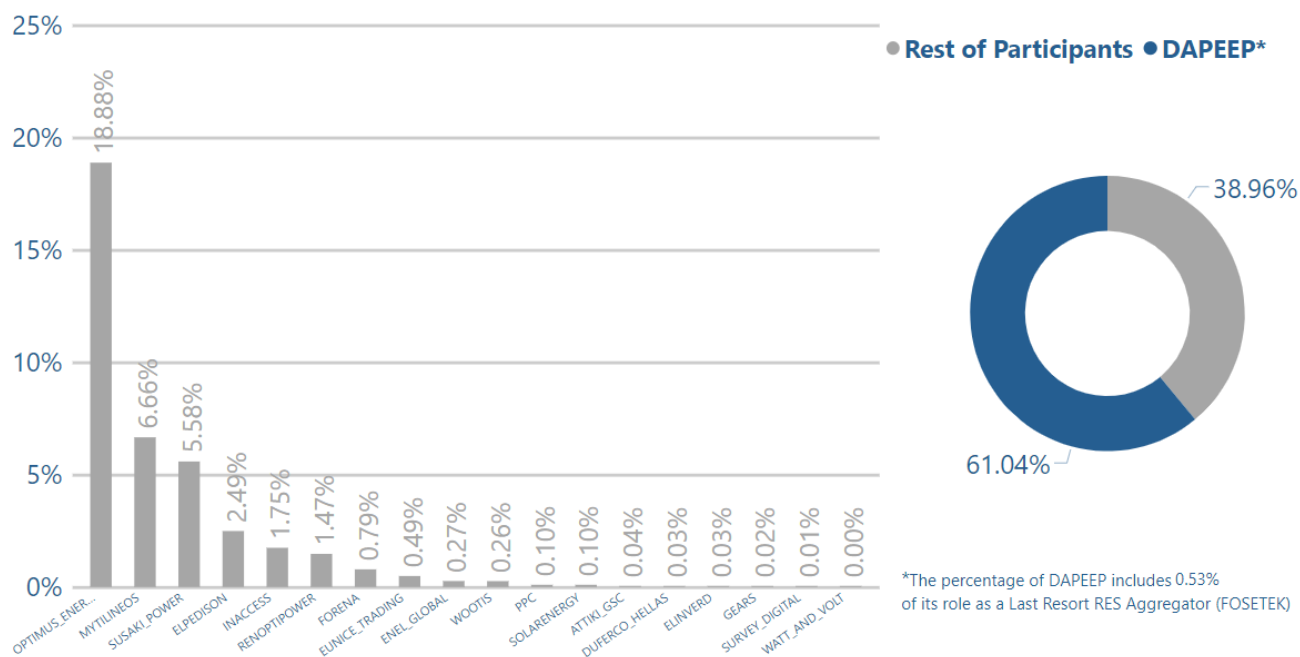
3.1 Market Schedules



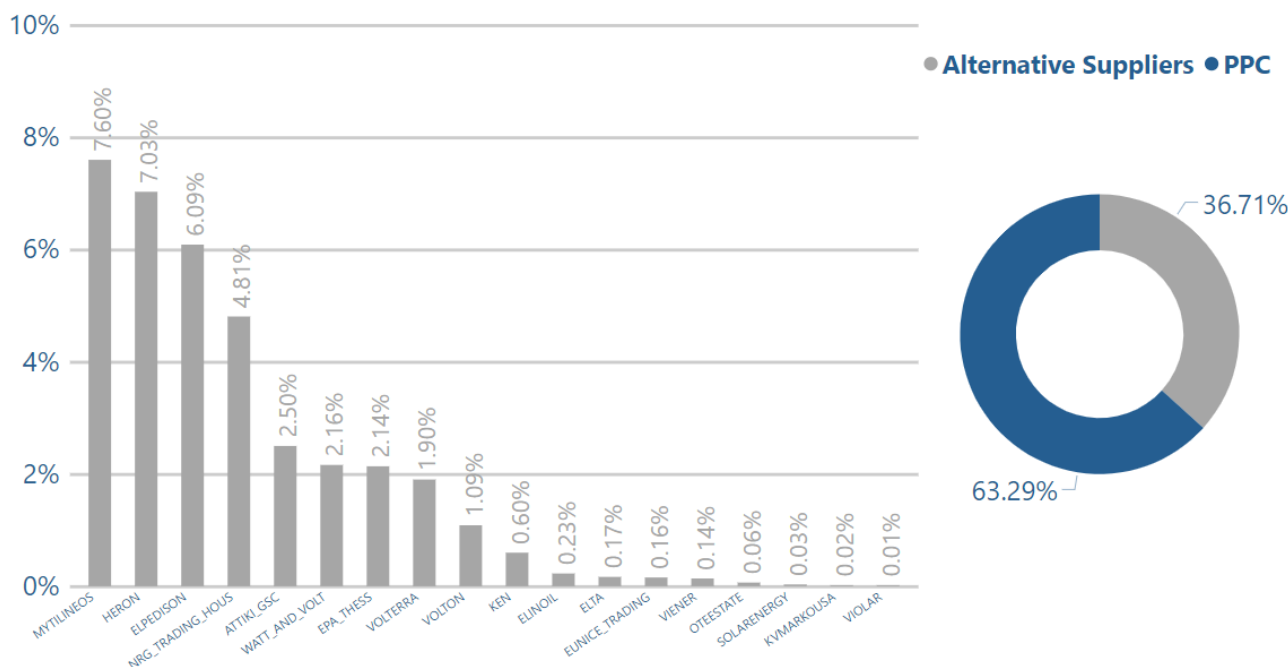
3.2 Final Market Schedules shares for all production units per Market Participant · Greek Bidding Zone



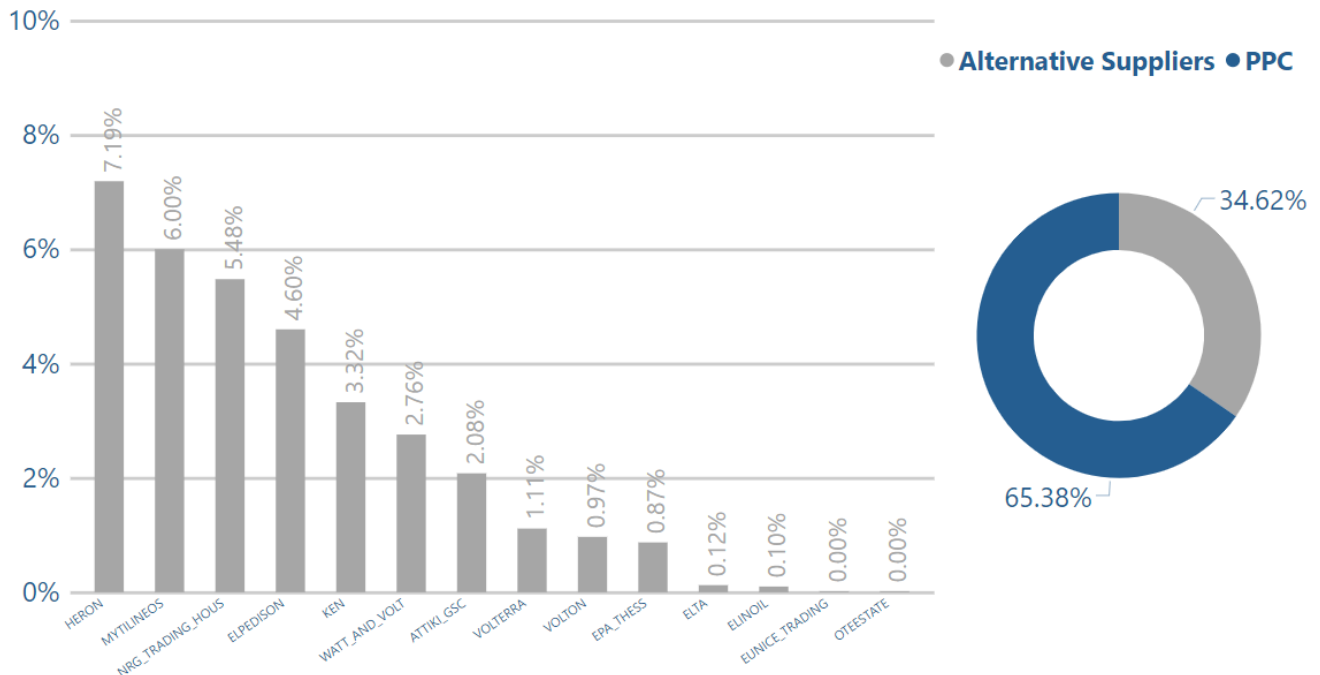
3.3 Final Market Schedules shares for RES production units per Market Participant · Greek Bidding Zone



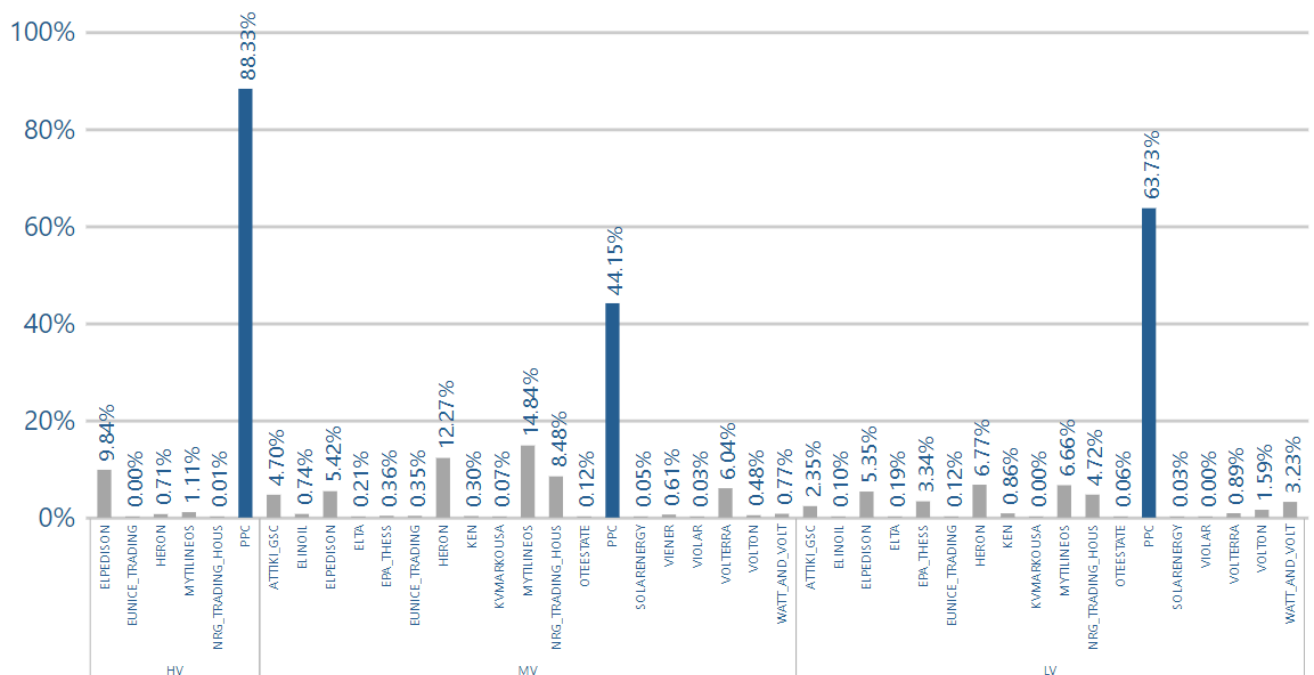
3.4 Final Market Schedules shares for domestic load per Market Participant · Mainland



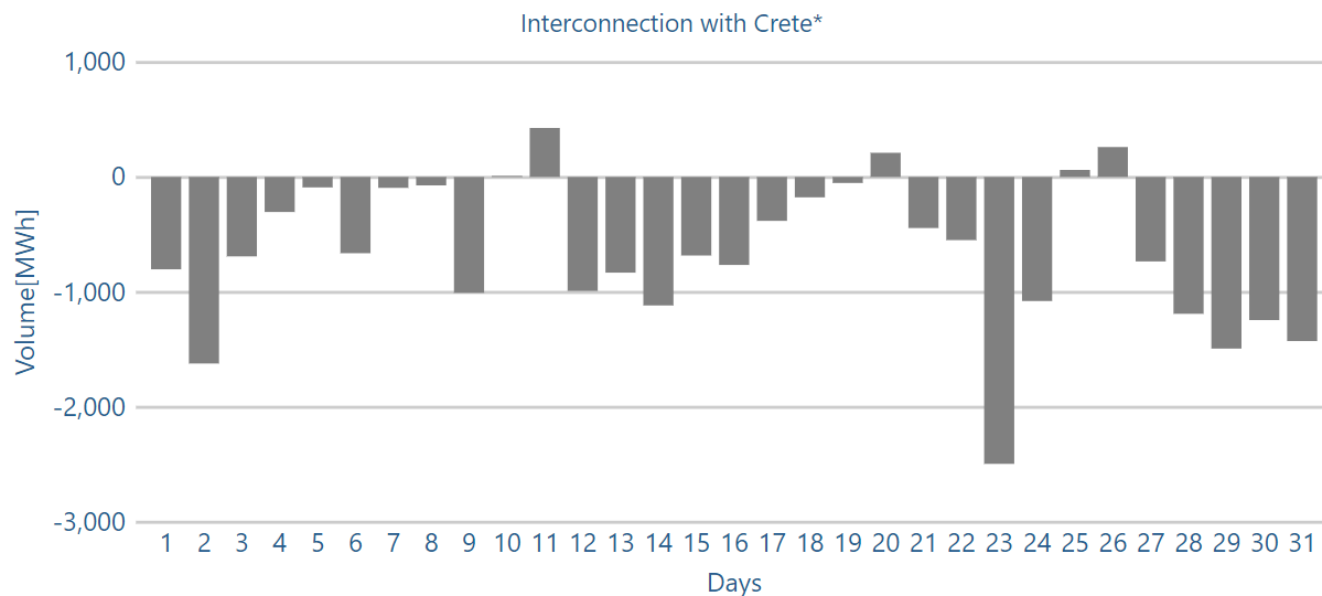
3.5 Final Market Schedules shares for domestic load per Market Participant · Crete



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



3.7 Energy flow between Greece Mainland and Crete



4 Natural Gas TP

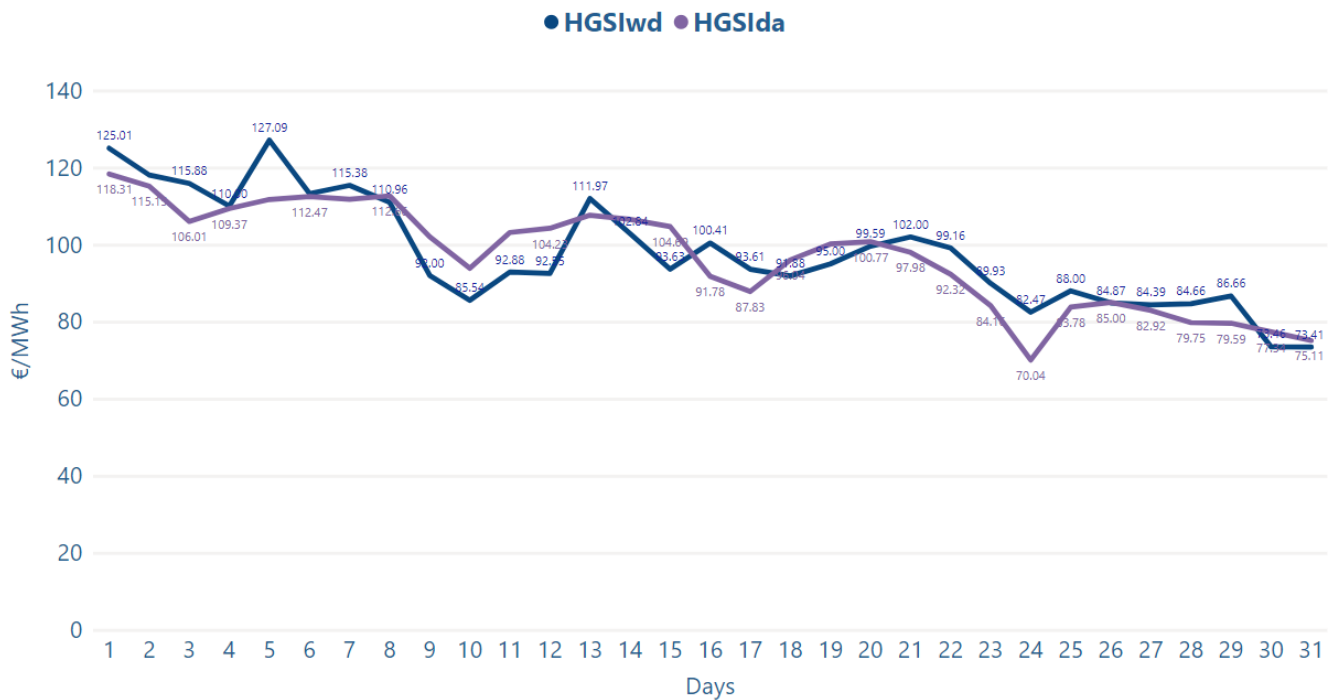
HEnEx NGAS Indices

Trading Volume per Trading Date

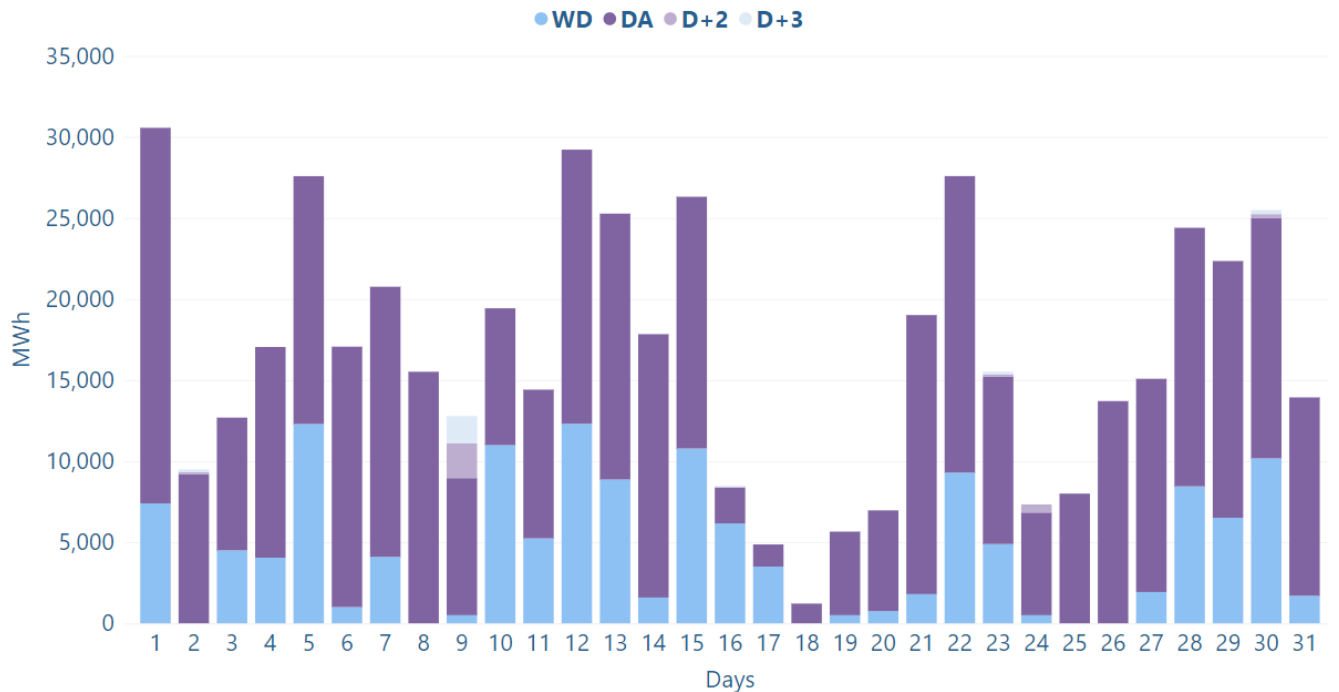
Trading Volume per Product, Session

Closing, Min, & Max Prices

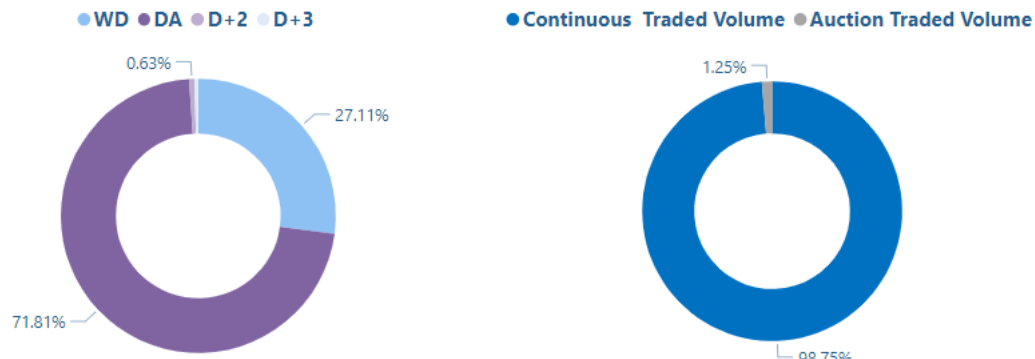
4.1 HEnEx NGAS indices



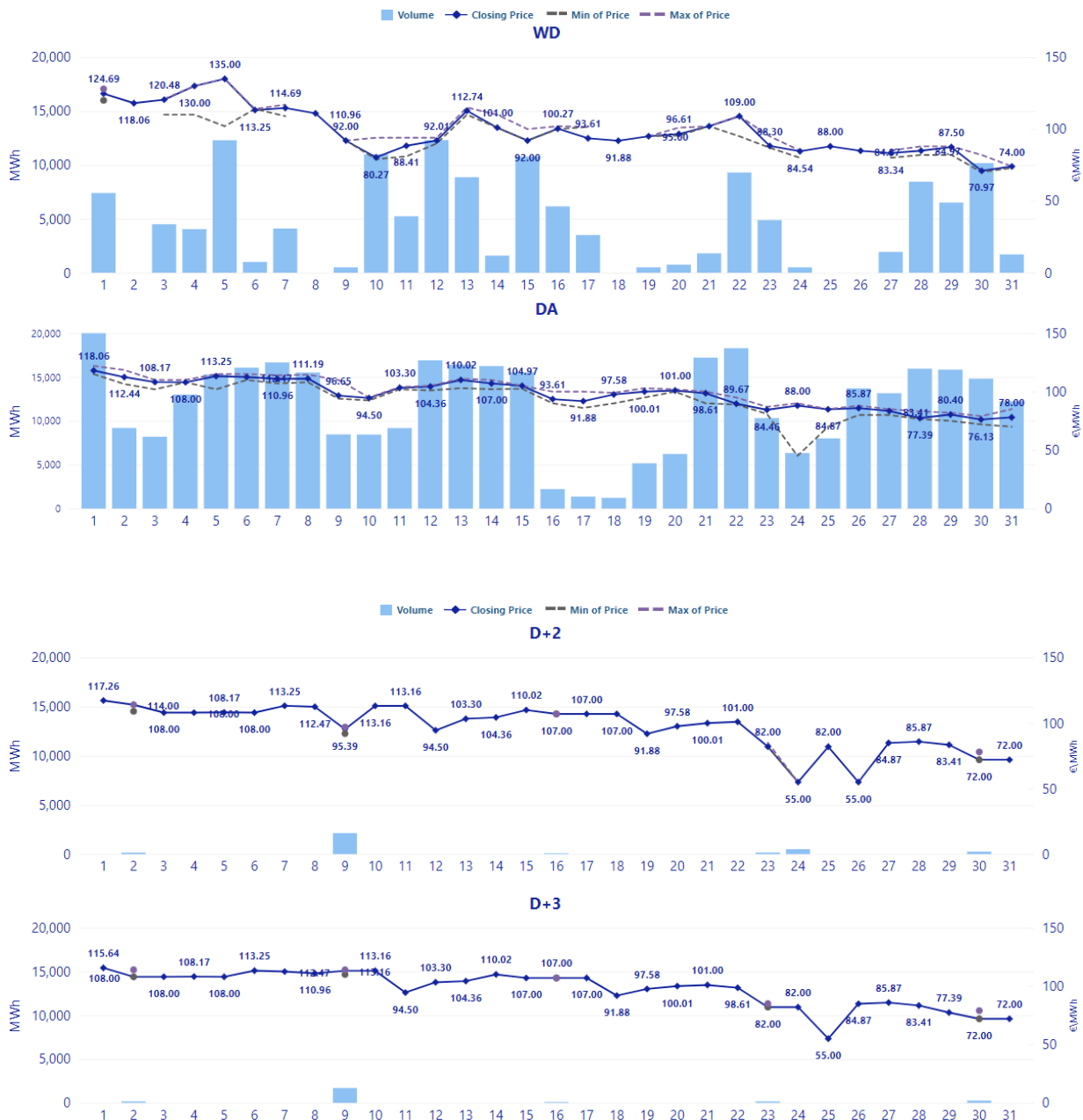
4.2 Trading Volume per Trading Day



4.3 Trading Volume per Product & Session



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



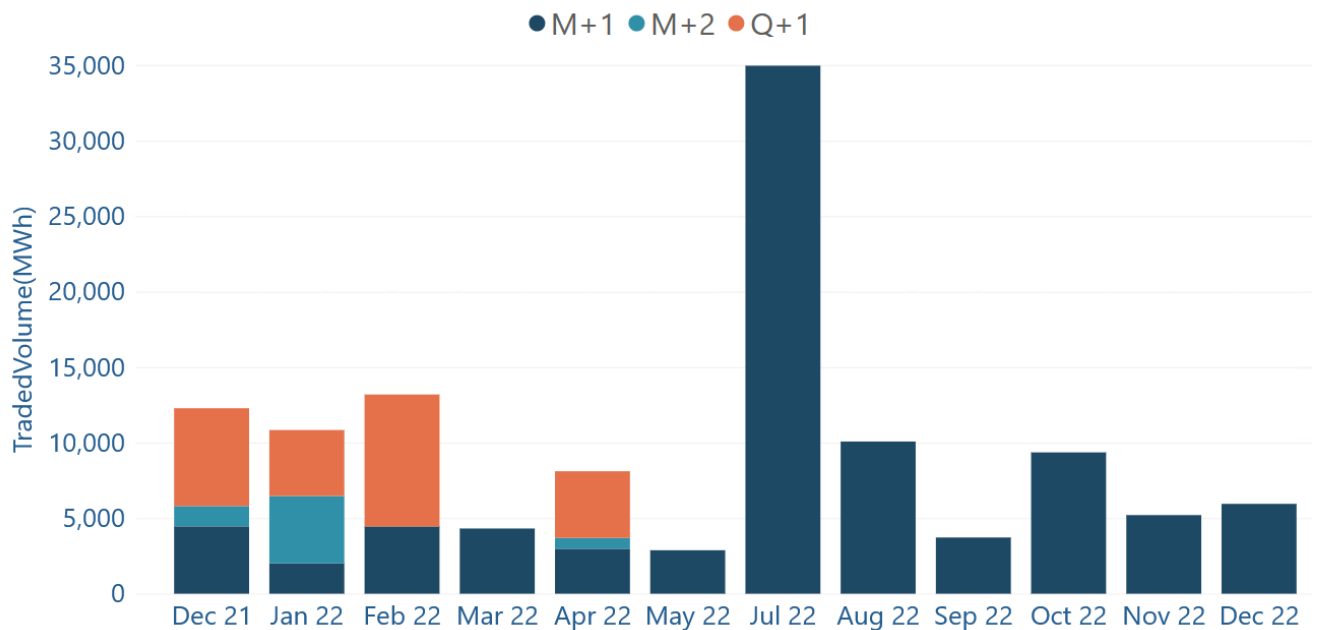
5 Derivatives Market

Traded Volume by Instrument and Month – Baseload

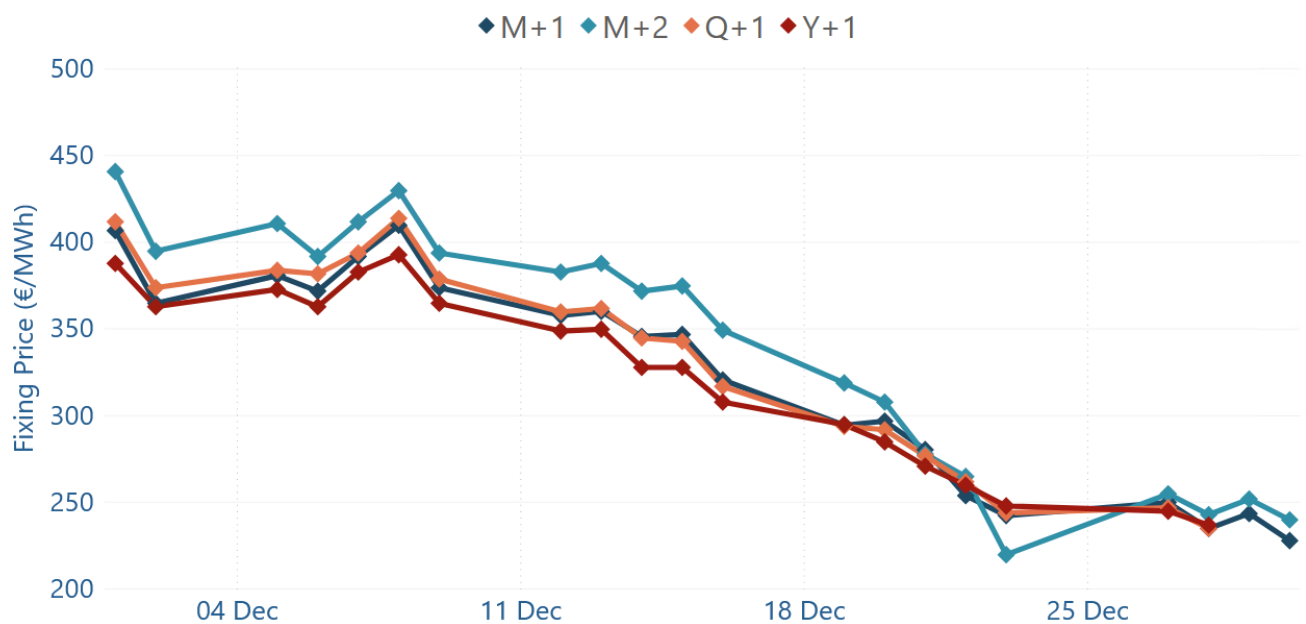
Daily Settlement prices for Baseload Instruments – Baseload

Final Settlement prices for the monthly expired traded series

5.1 Traded Volume by Instrument and Month- Baseload



5.2 Daily Fixing Prices – Baseload



5.3 Final Settlement prices for the monthly expired traded series

GREBM1222 - Final Settlement Price

276.89

Baseload

GREPM1222 - Final Settlement Price

338.87

Peakload

6. Annex

Definitions

ACRONYM	Definition
GR BZ	Greek Bidding Zone
MCP	Market Clearing Price
NGTP	Natural Gas Trading Platform
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.