

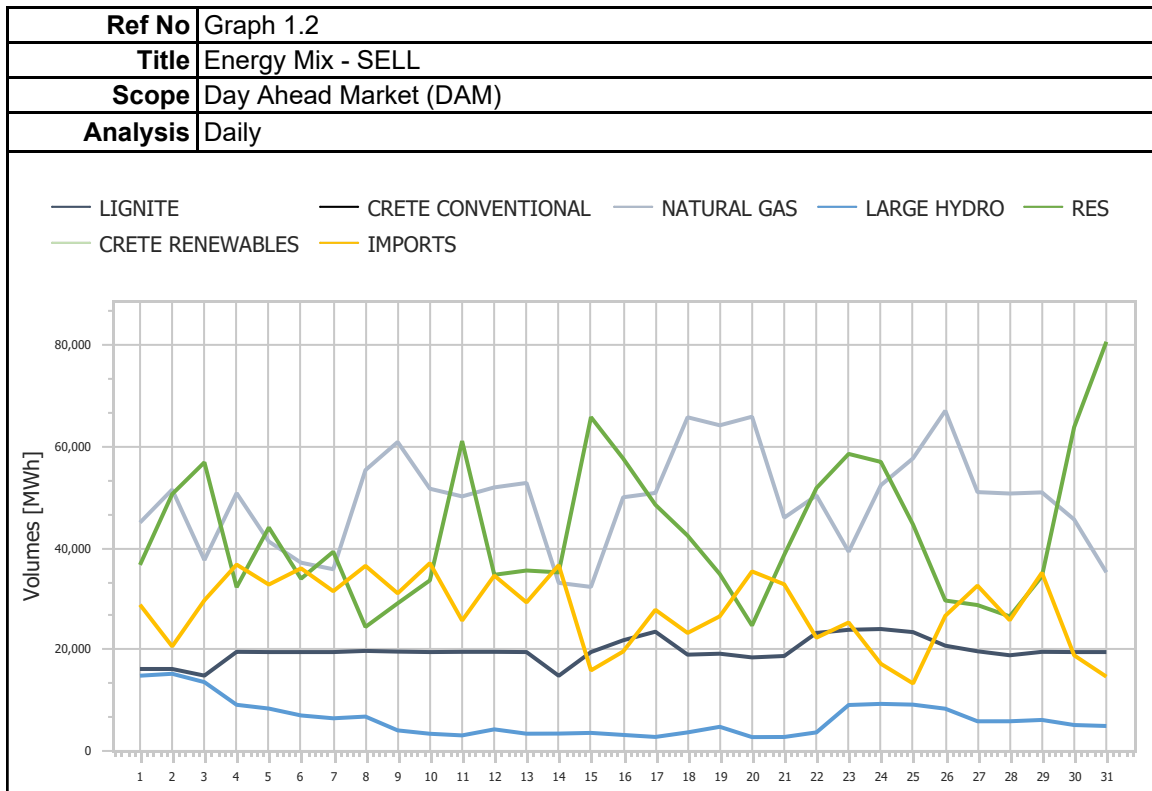
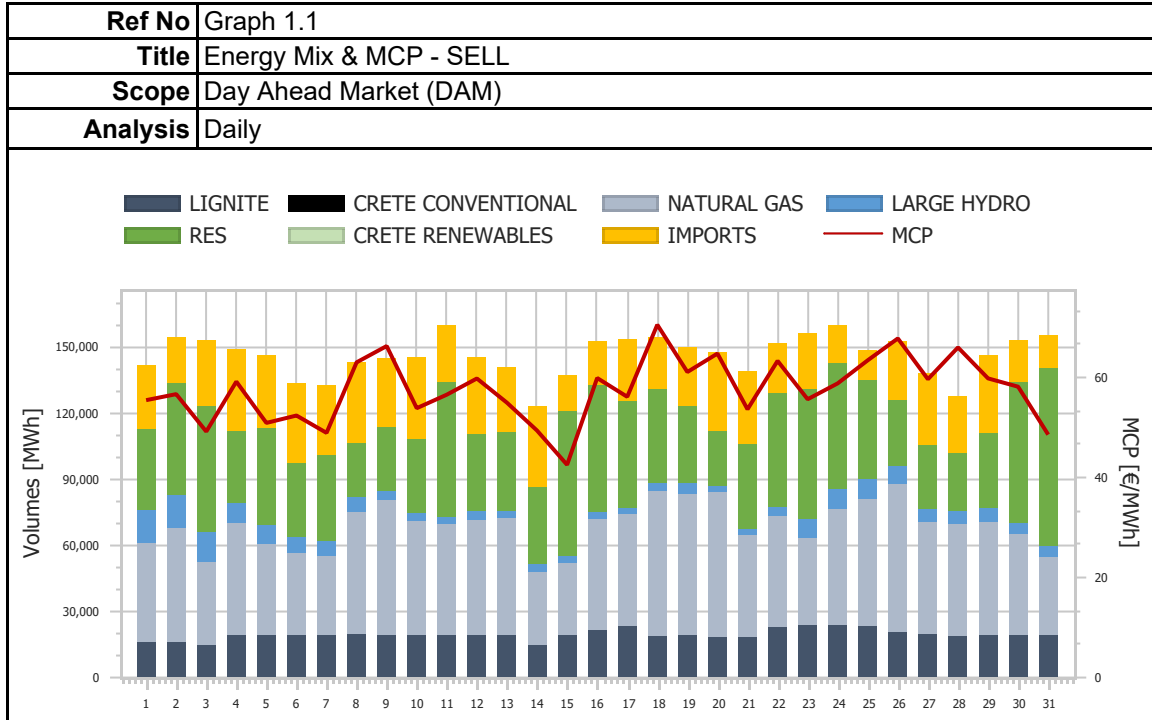
Market Monitoring Report

Monthly - Public - 2

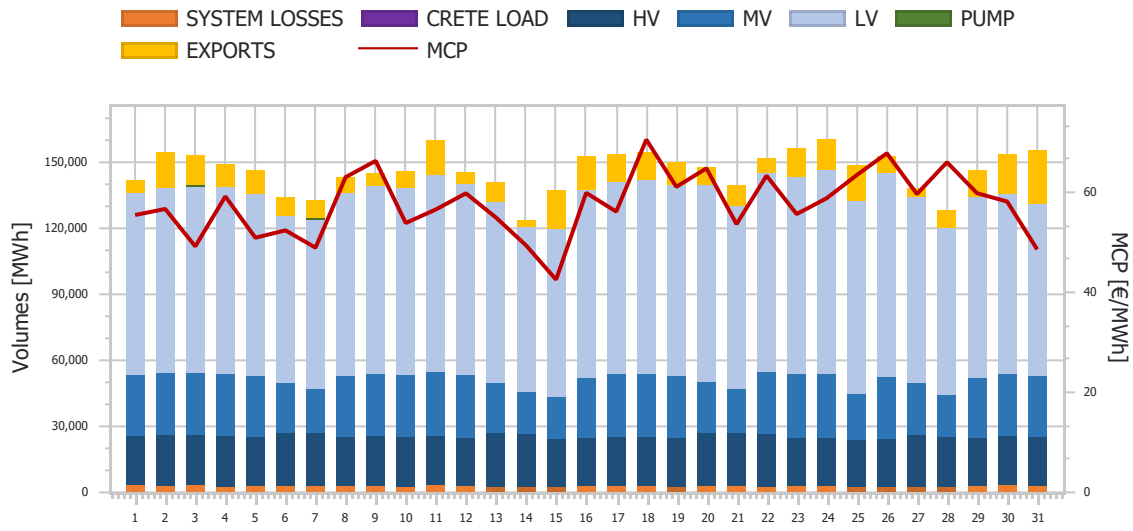
03-2021



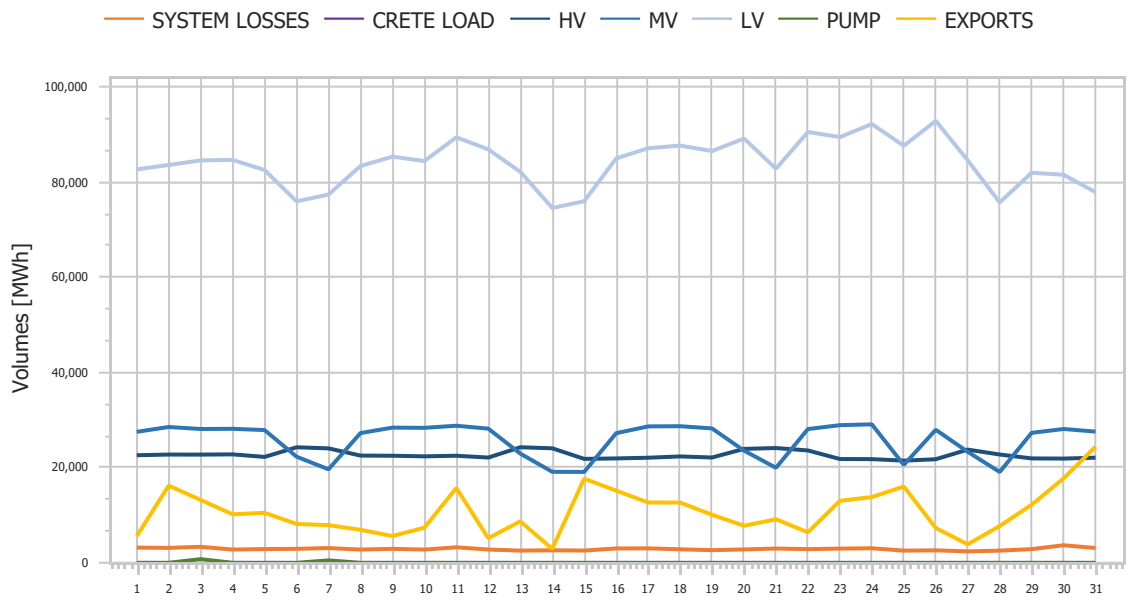
1. Day Ahead Market (DAM)



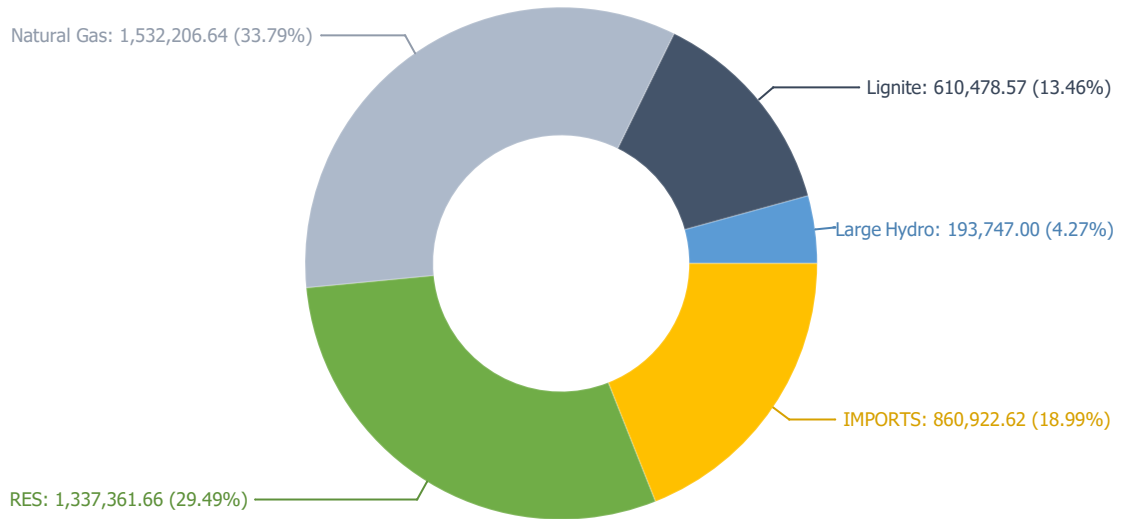
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Title	Energy Mix & MCP - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily



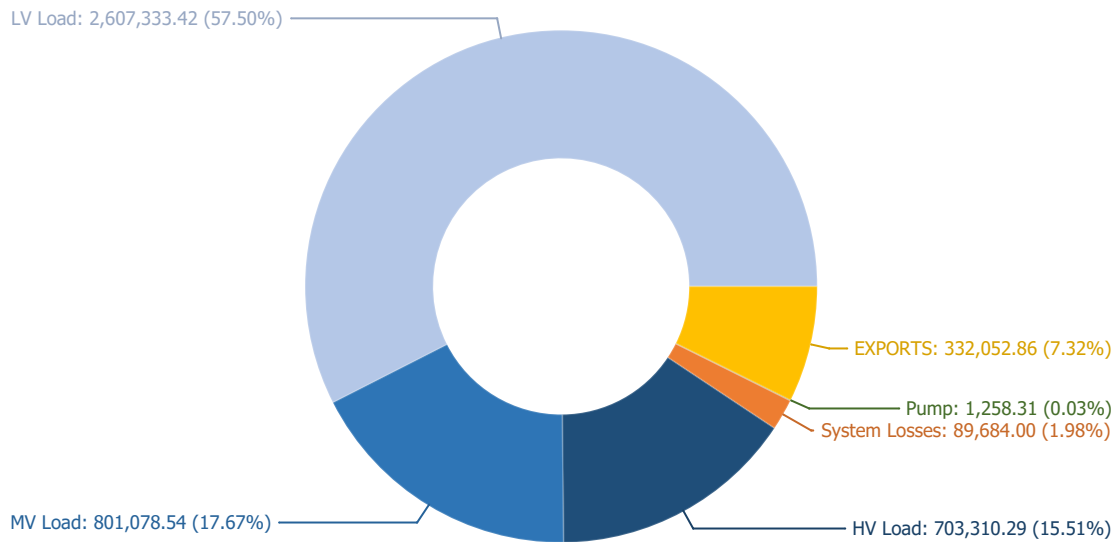
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Scope	Day Ahead Market (DAM)
Analysis	Daily



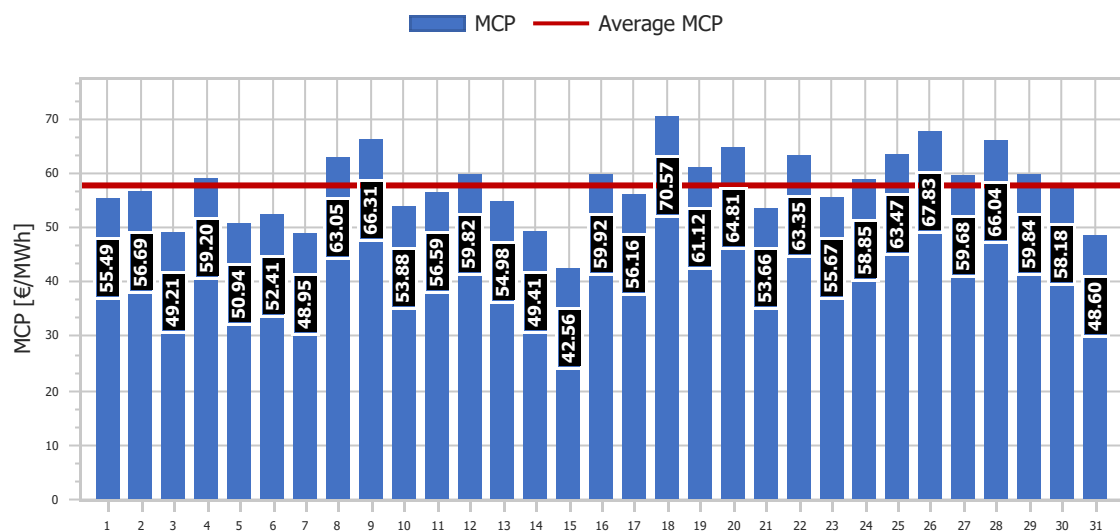
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Scope	Day Ahead Market (DAM)
Analysis	Daily



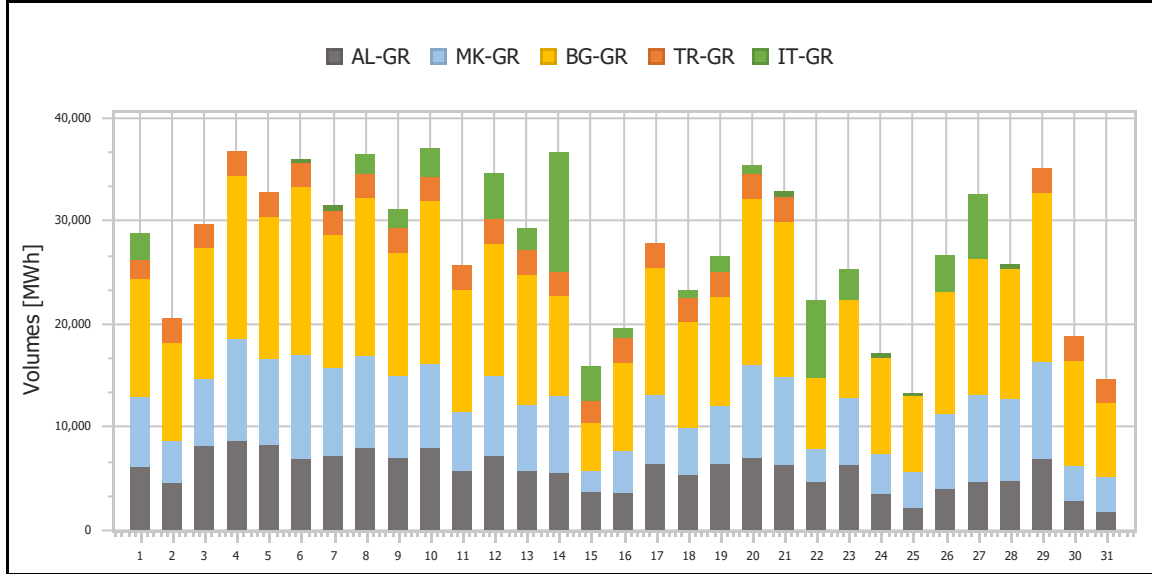
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Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily



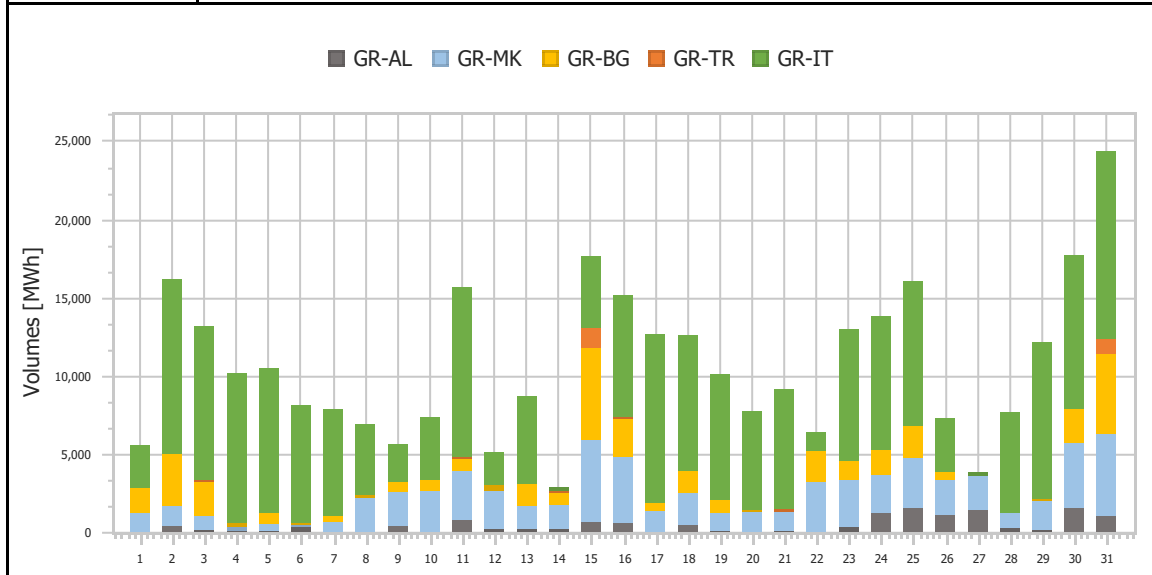
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Title	Market Clearing Price (MCP)
Scope	Day Ahead Market (DAM)
Analysis	Daily



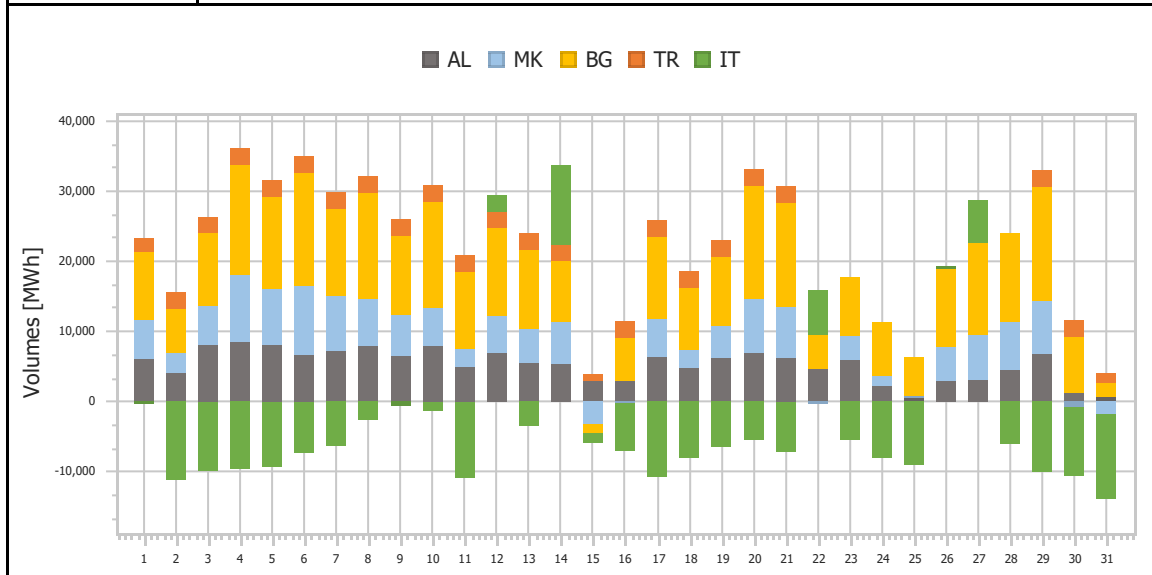
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Title	Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



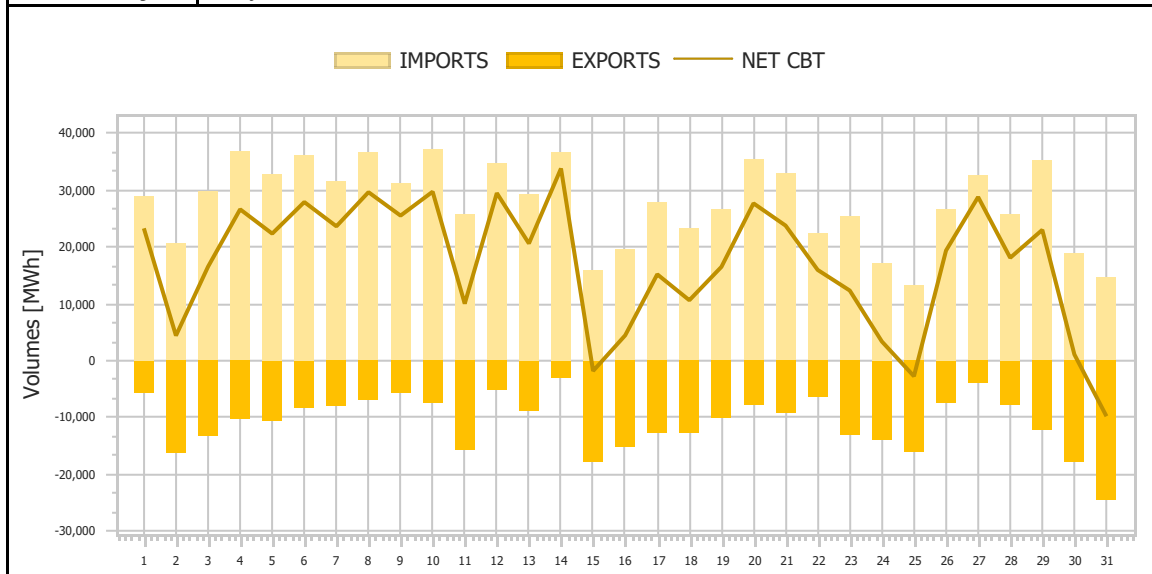
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Title	Exports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



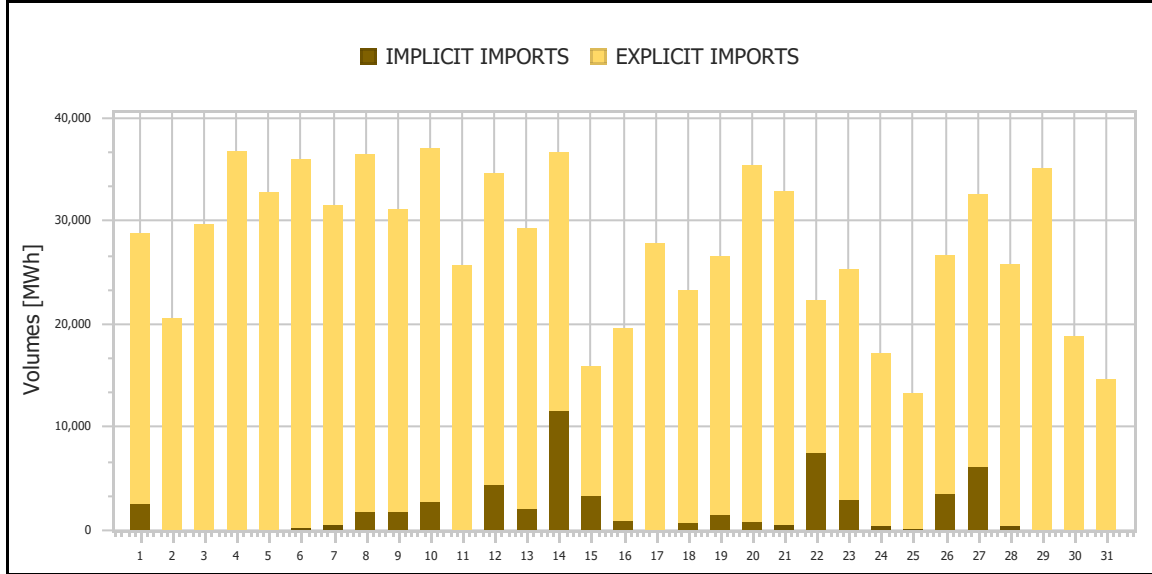
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Title	Net Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



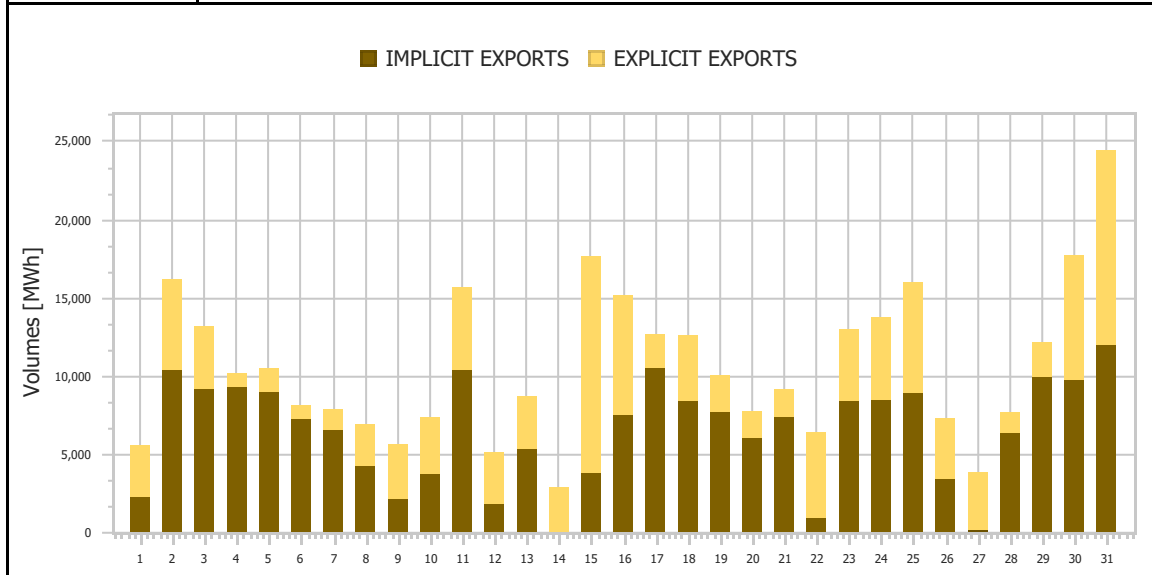
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Title	Total Imports & Exports
Scope	Day Ahead Market (DAM)
Analysis	Daily

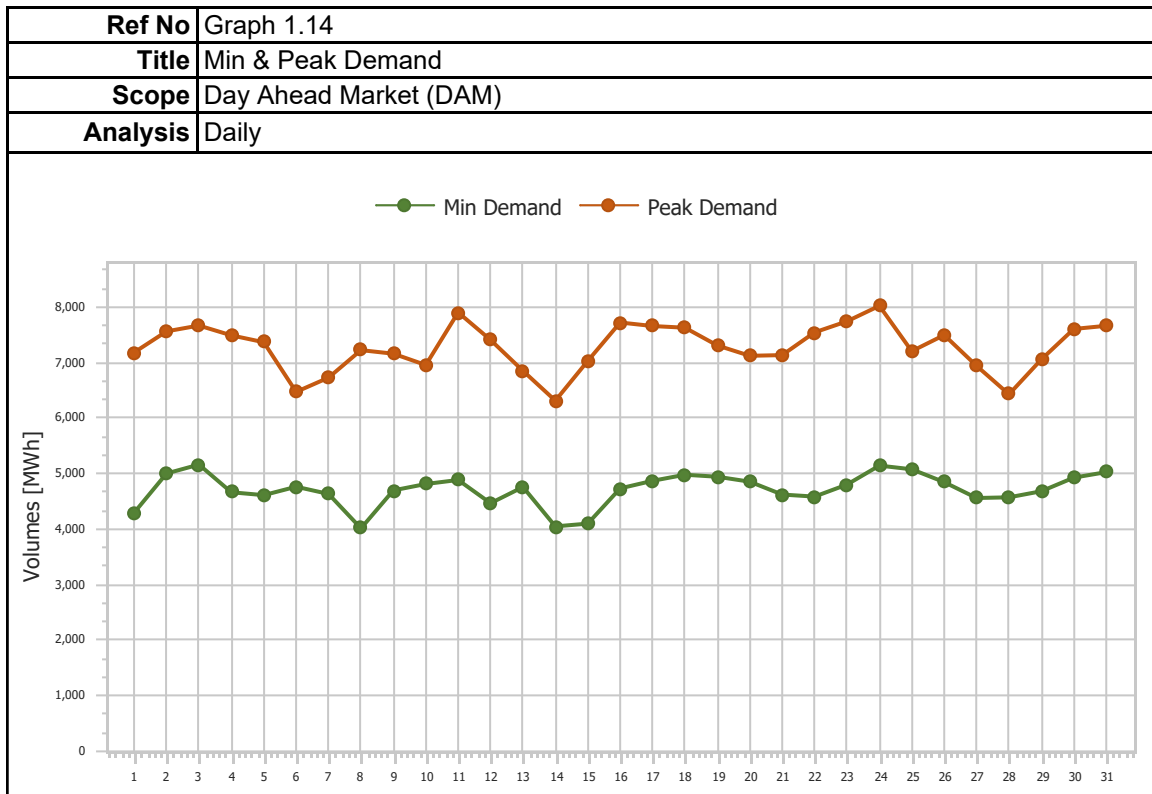


Ref No	Graph 1.12
Title	Imports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Daily

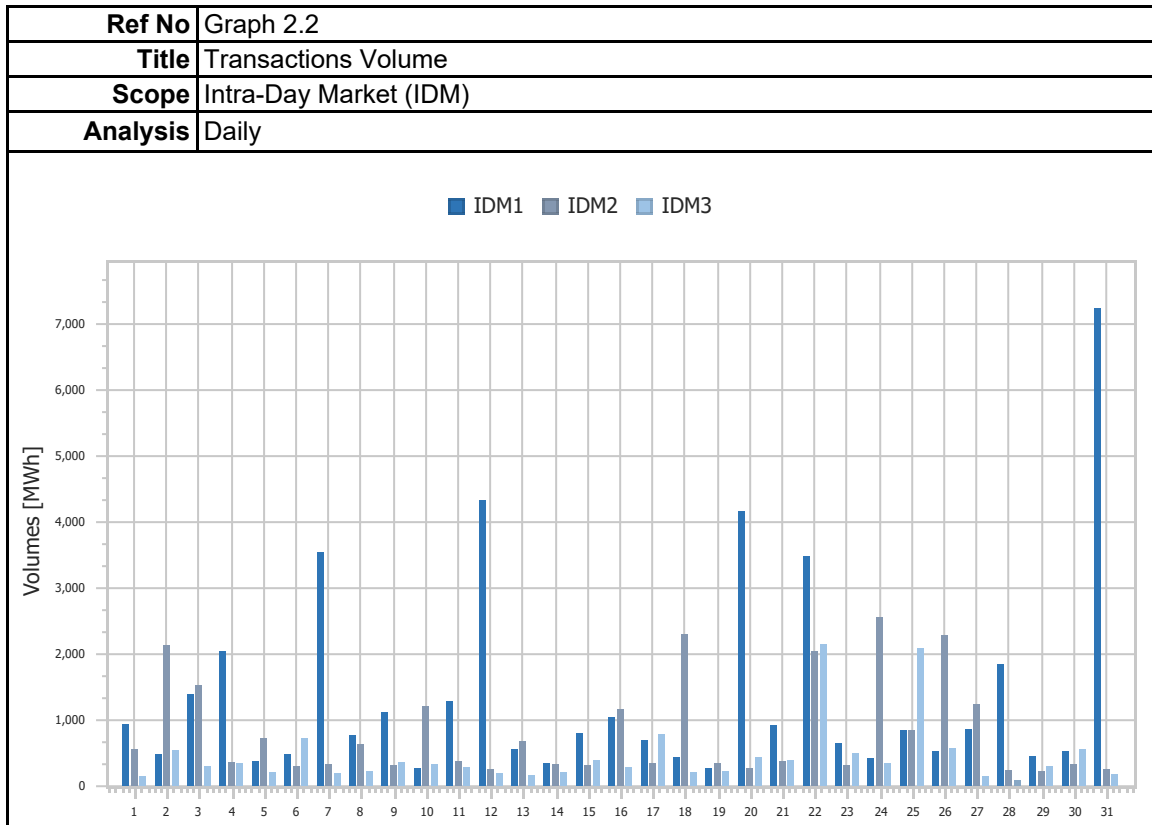
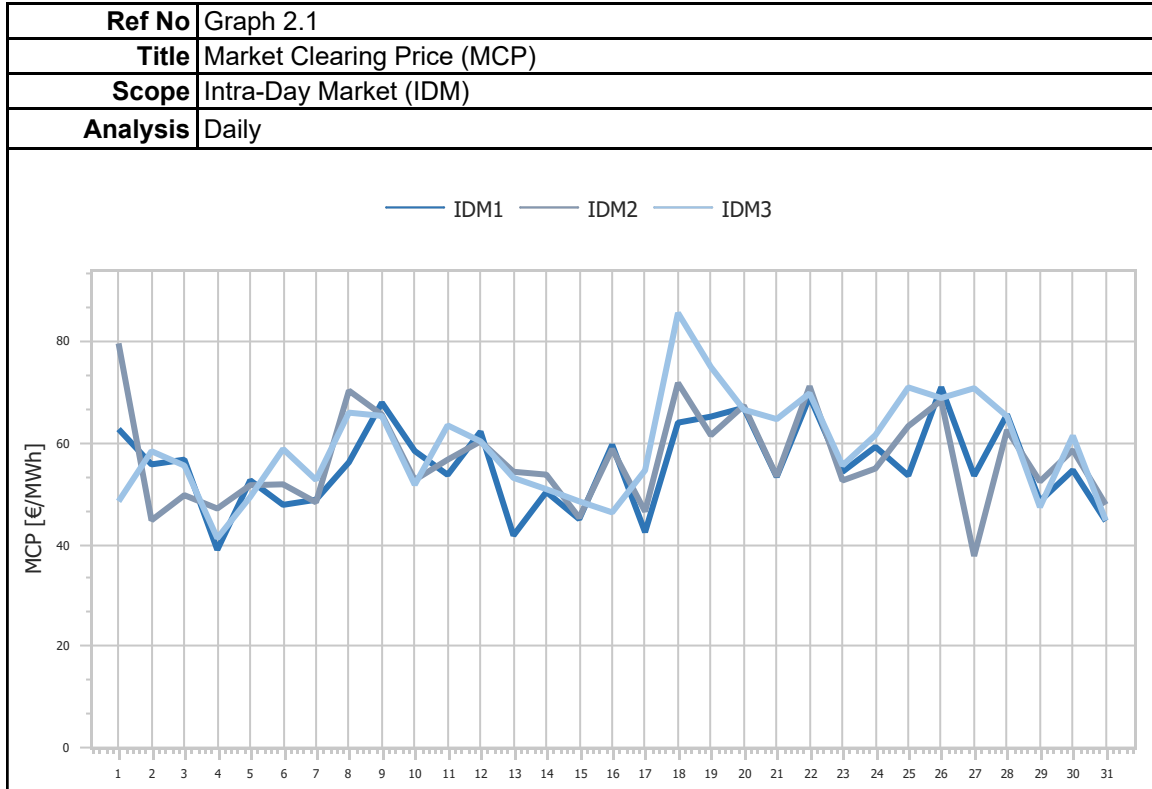


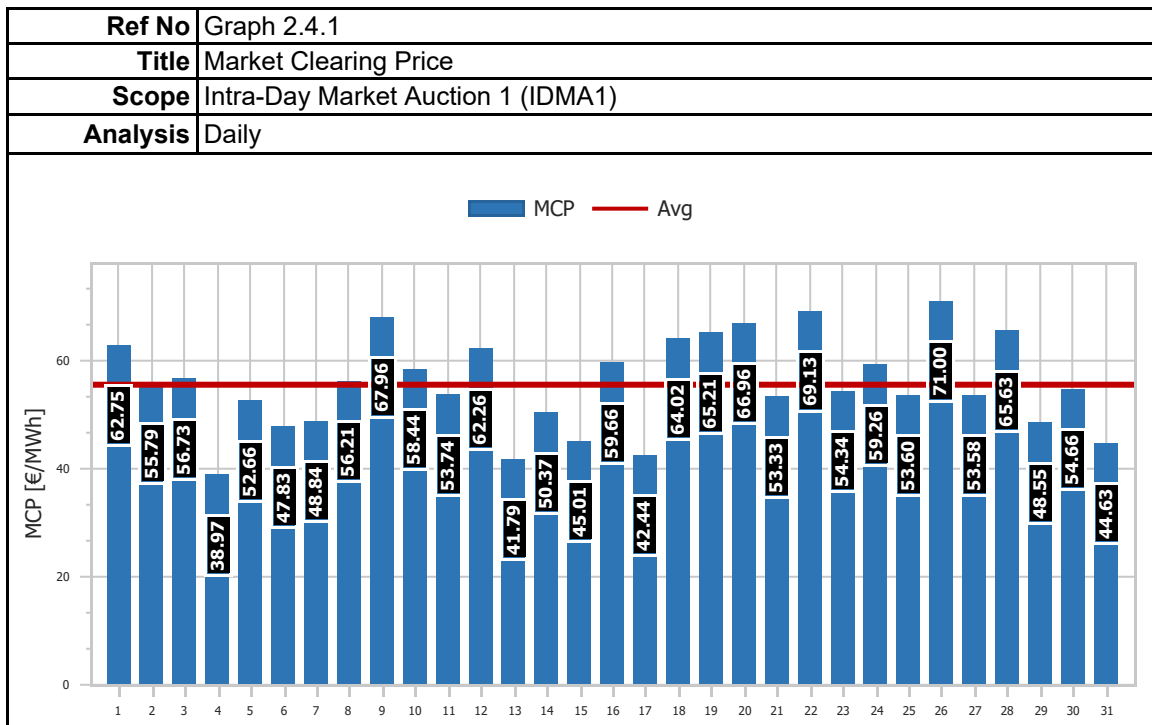
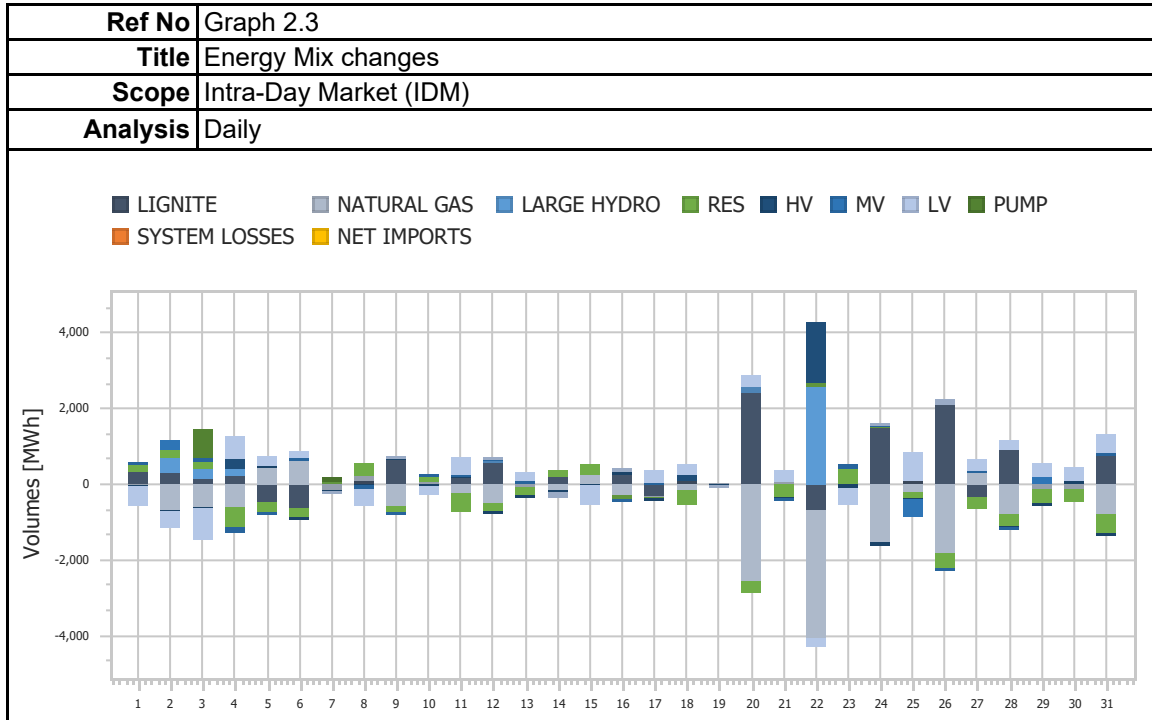
Ref No	Graph 1.13
Title	Exports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Monthly



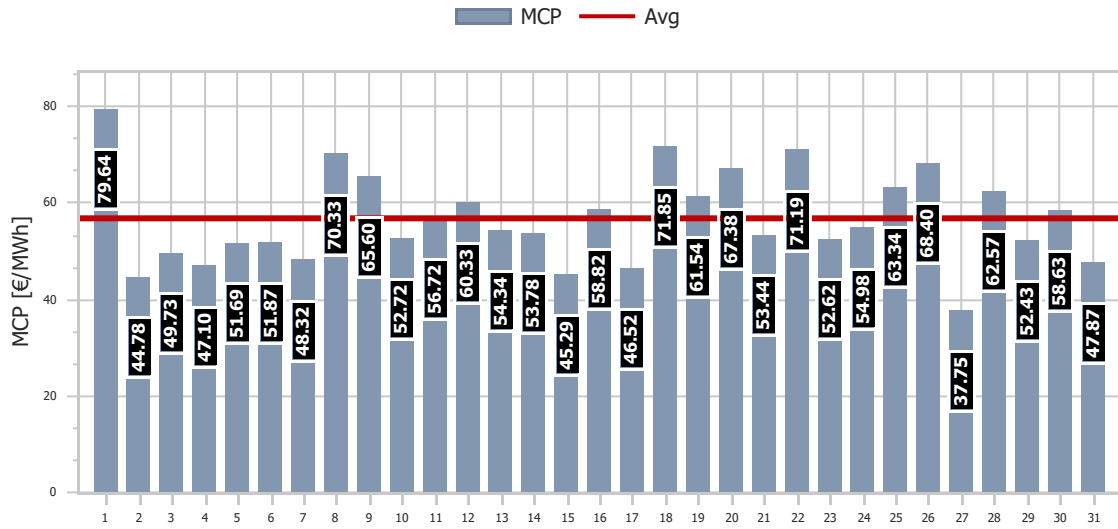


2. Intra-Day Market (IDM)

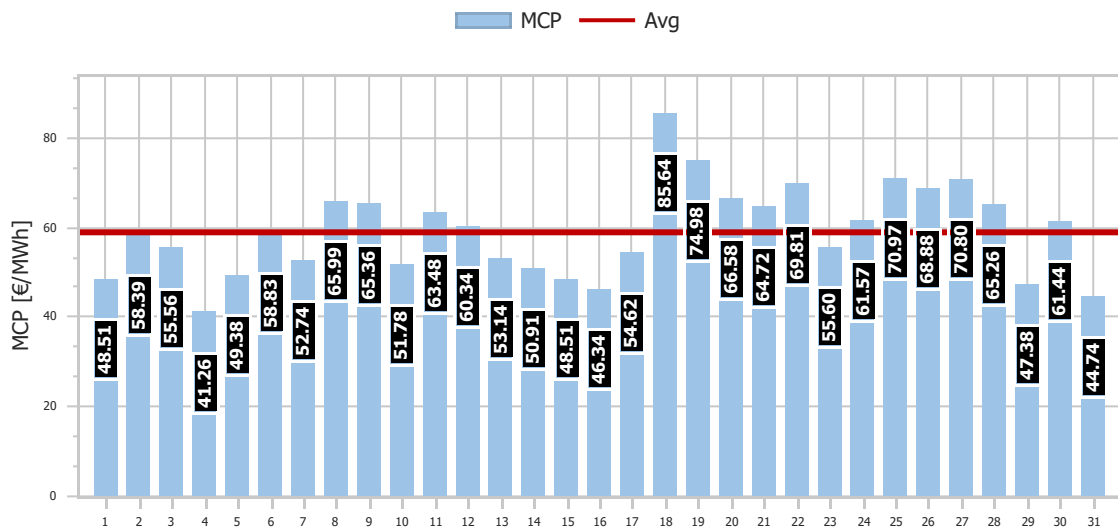


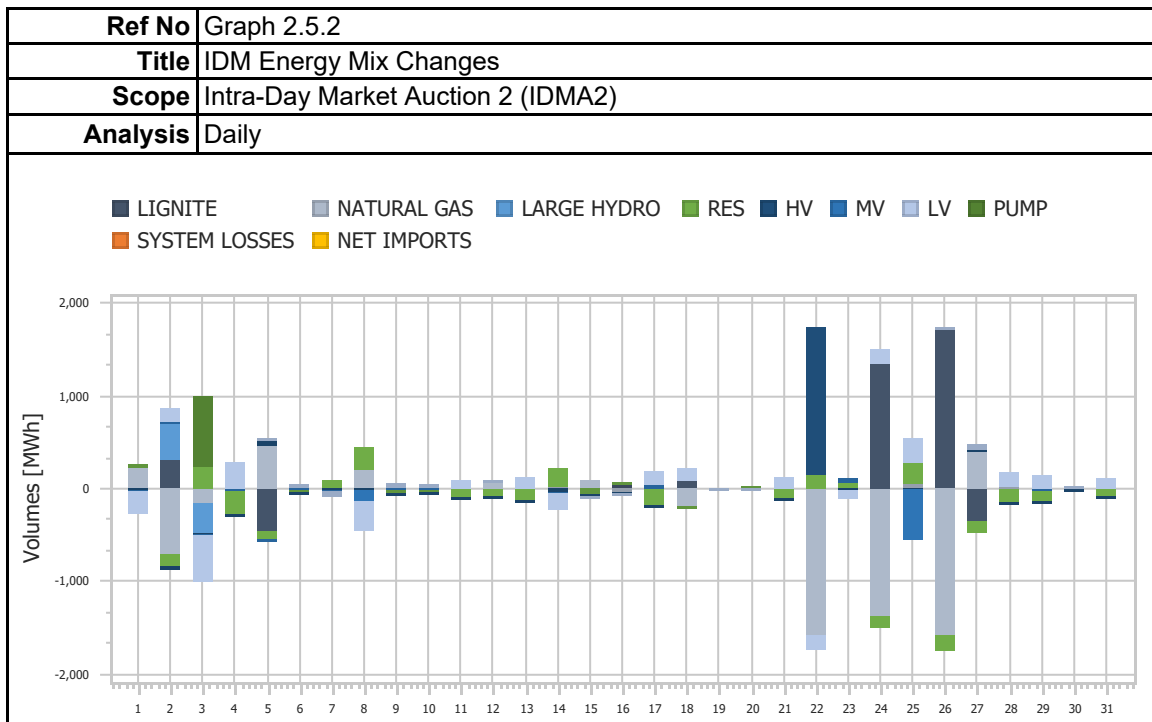
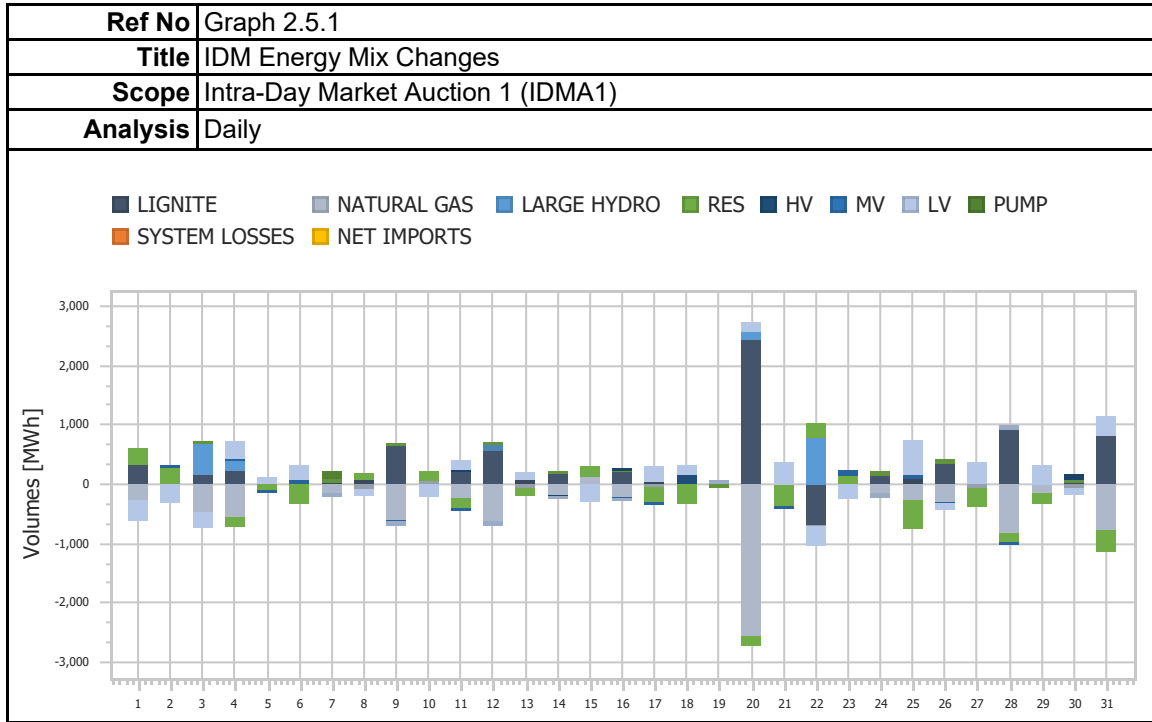


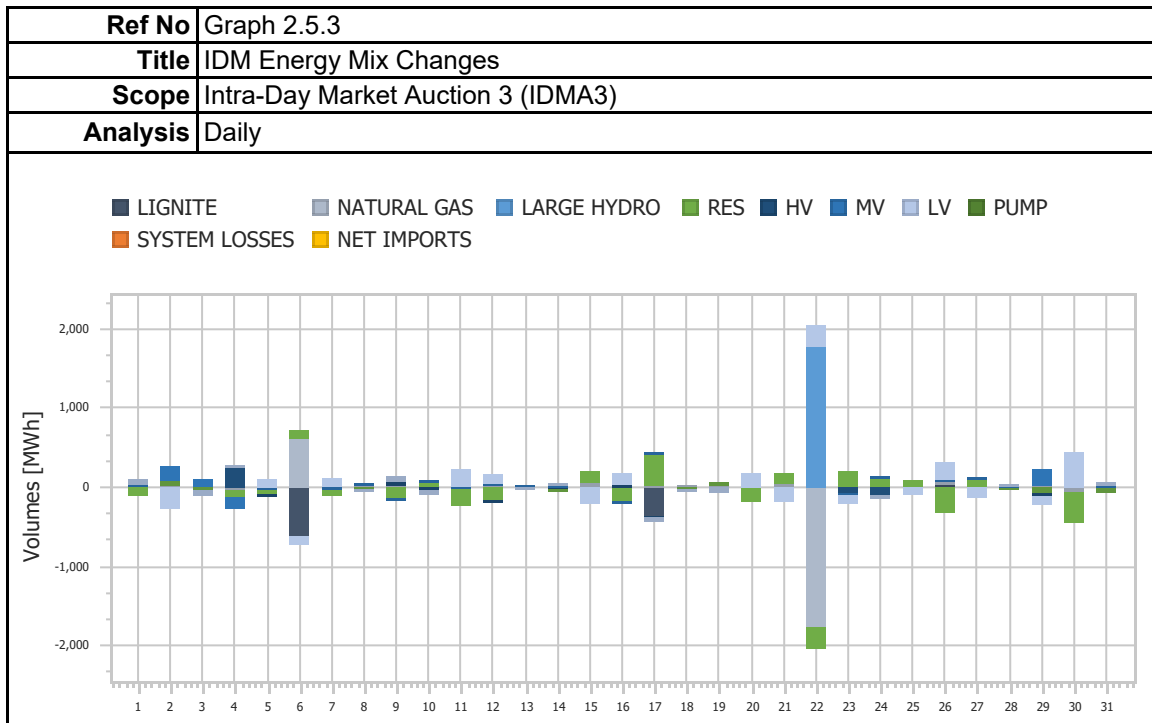
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Title	Market Clearing Price
Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



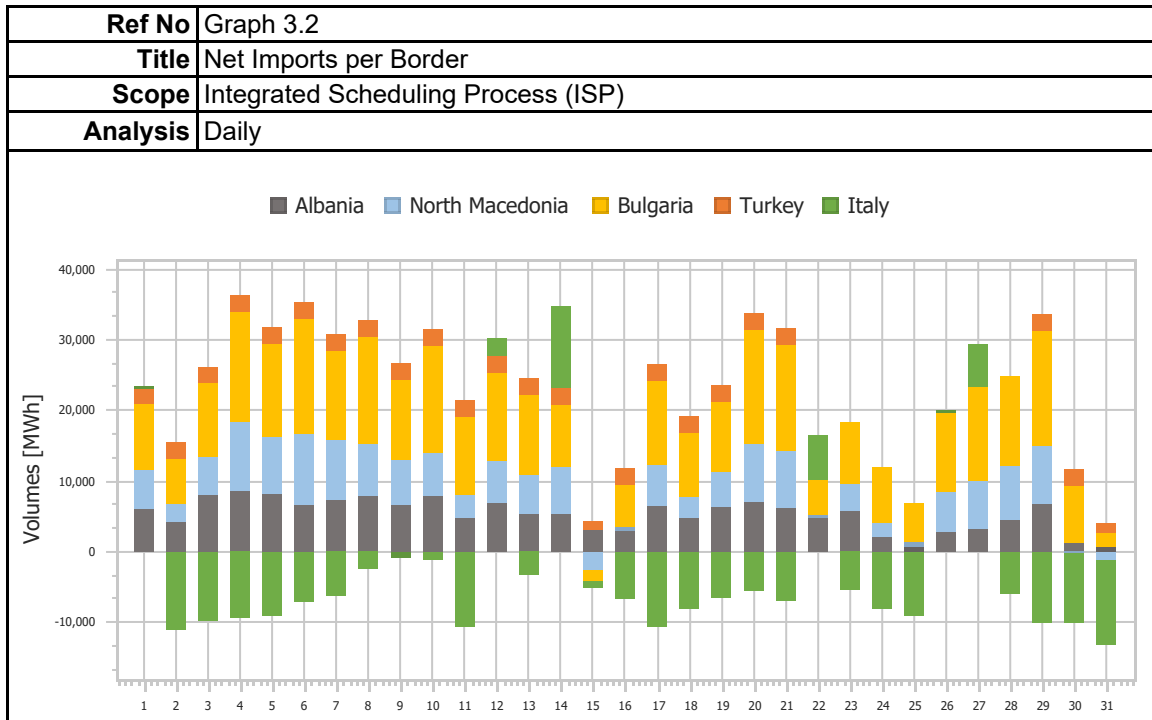
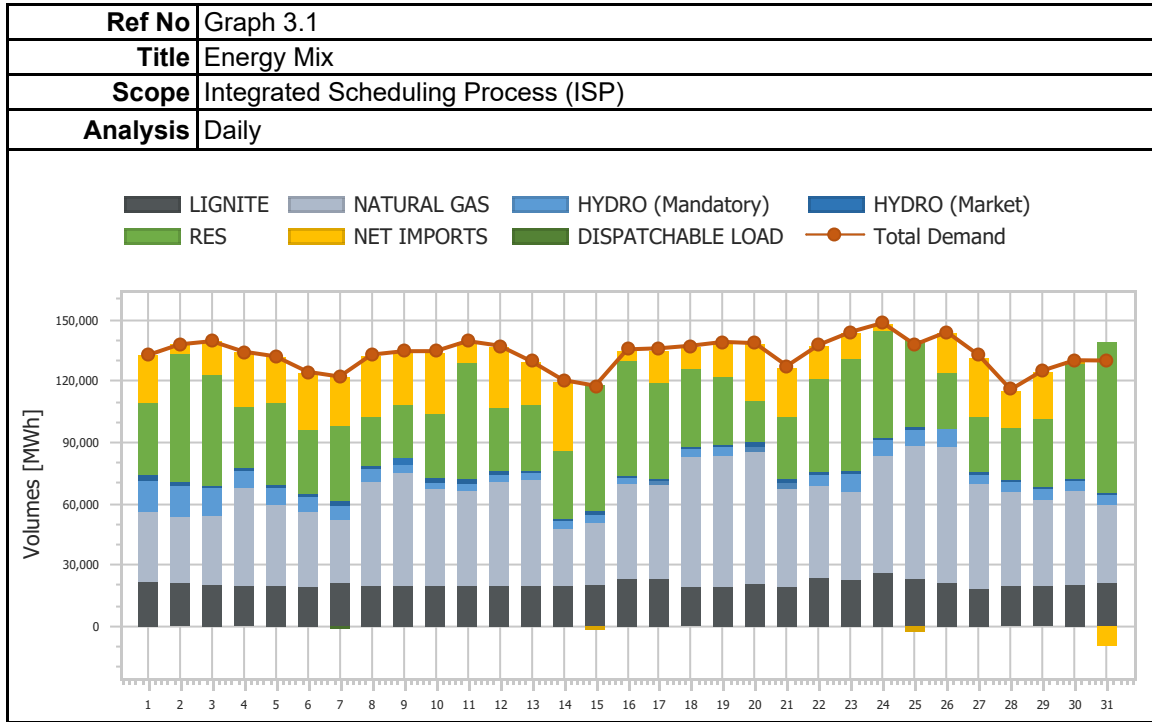
Ref No	Graph 2.4.3
Title	Market Clearing Price
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily



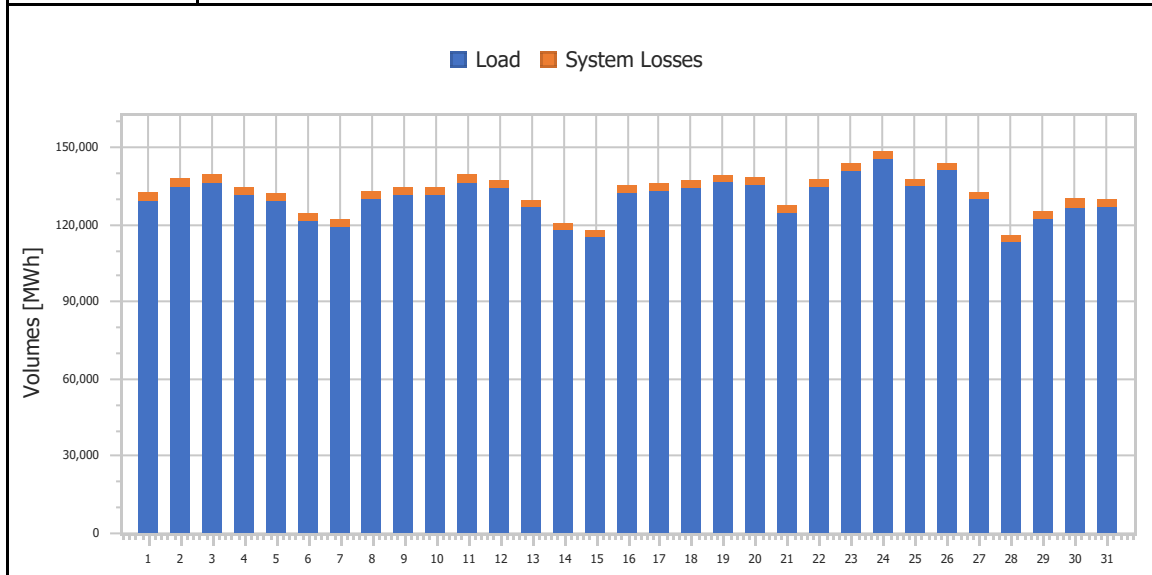




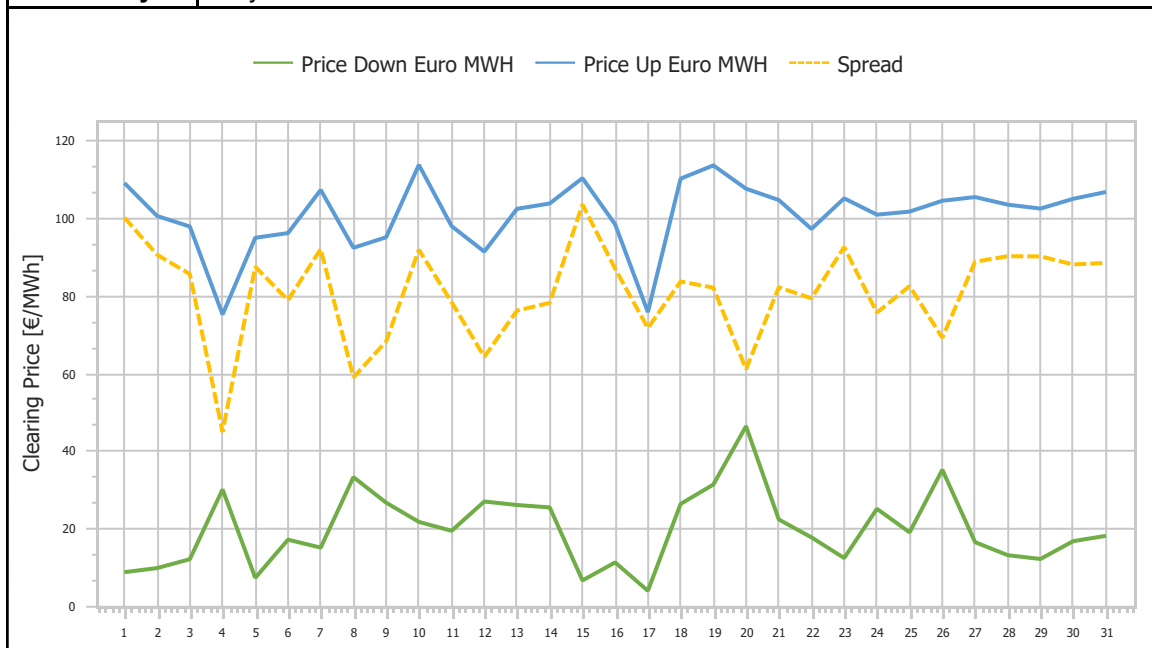
3. Integrated Scheduling Process (ISP)



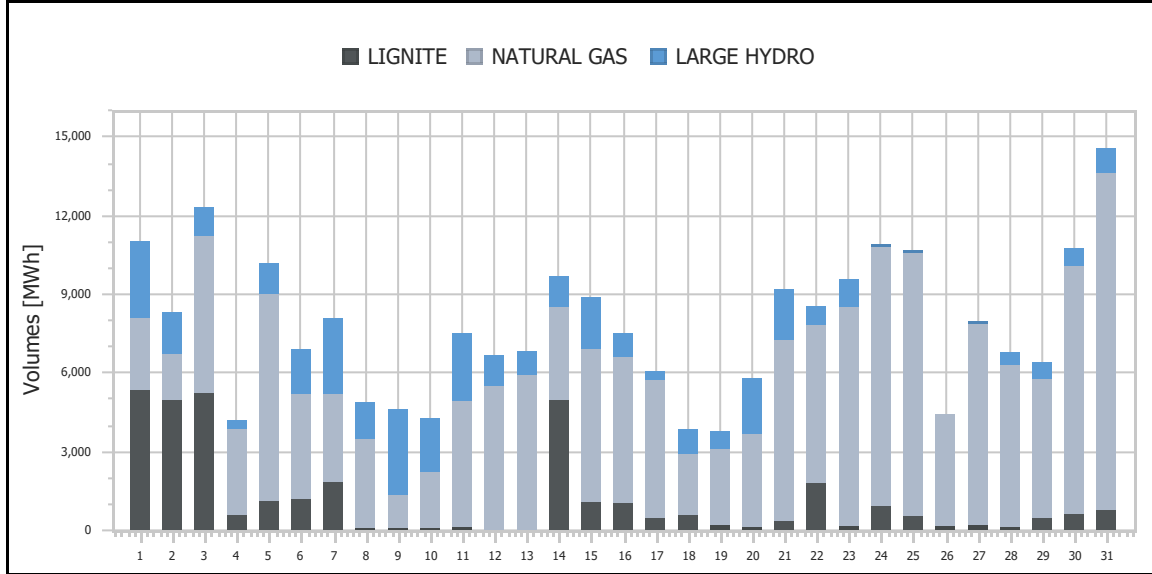
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Title	Demand & System Losses
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



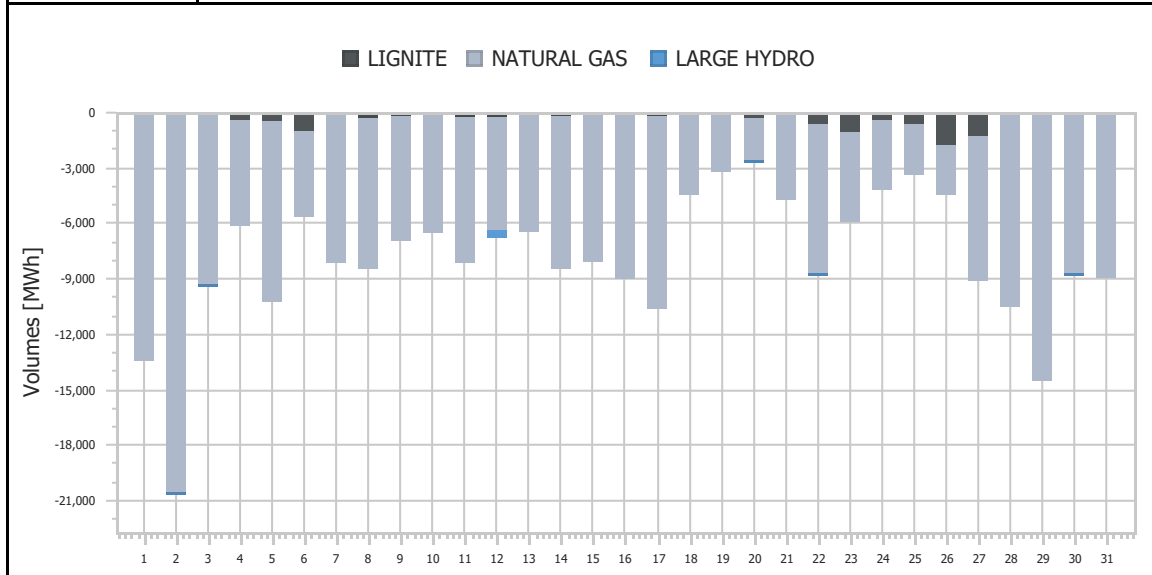
Ref No	Graph 3.4
Title	Clearing Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



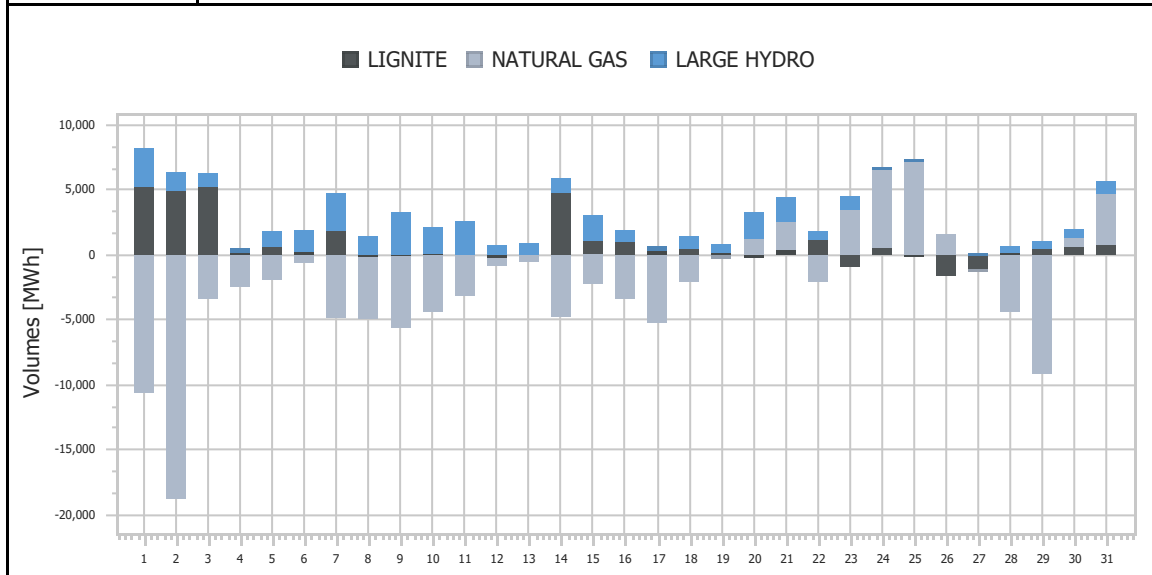
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Title	Upward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



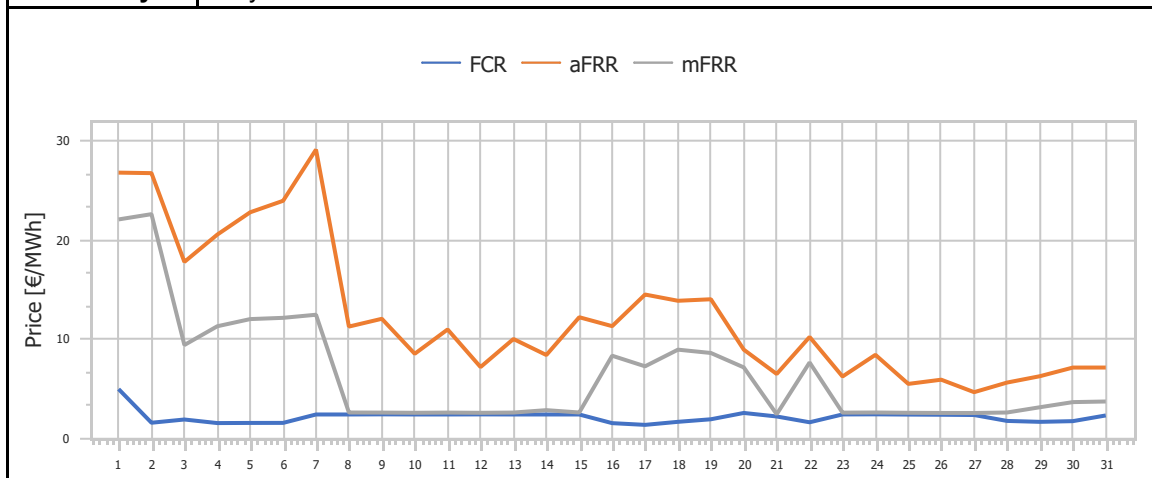
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Title	Downward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



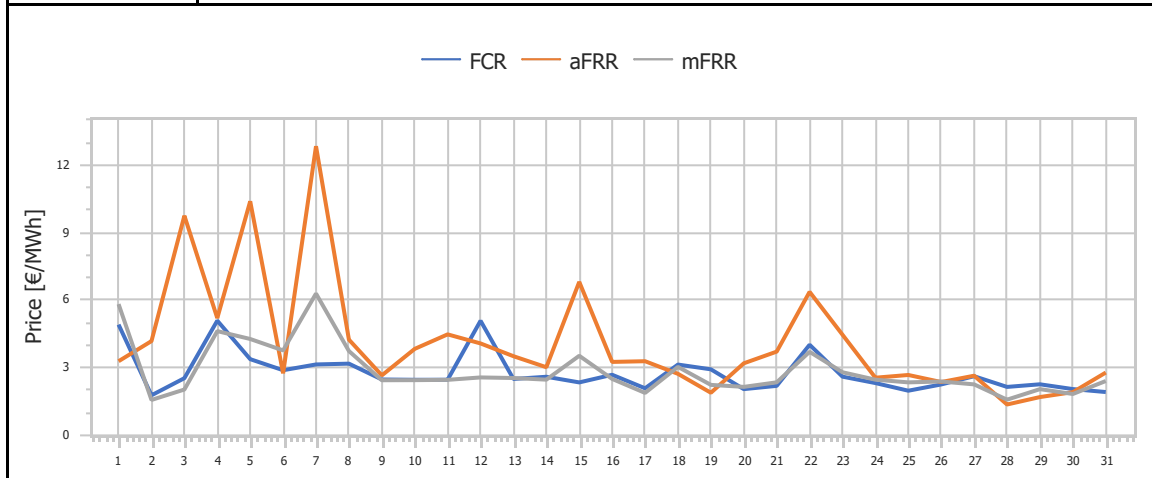
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Title	Net Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



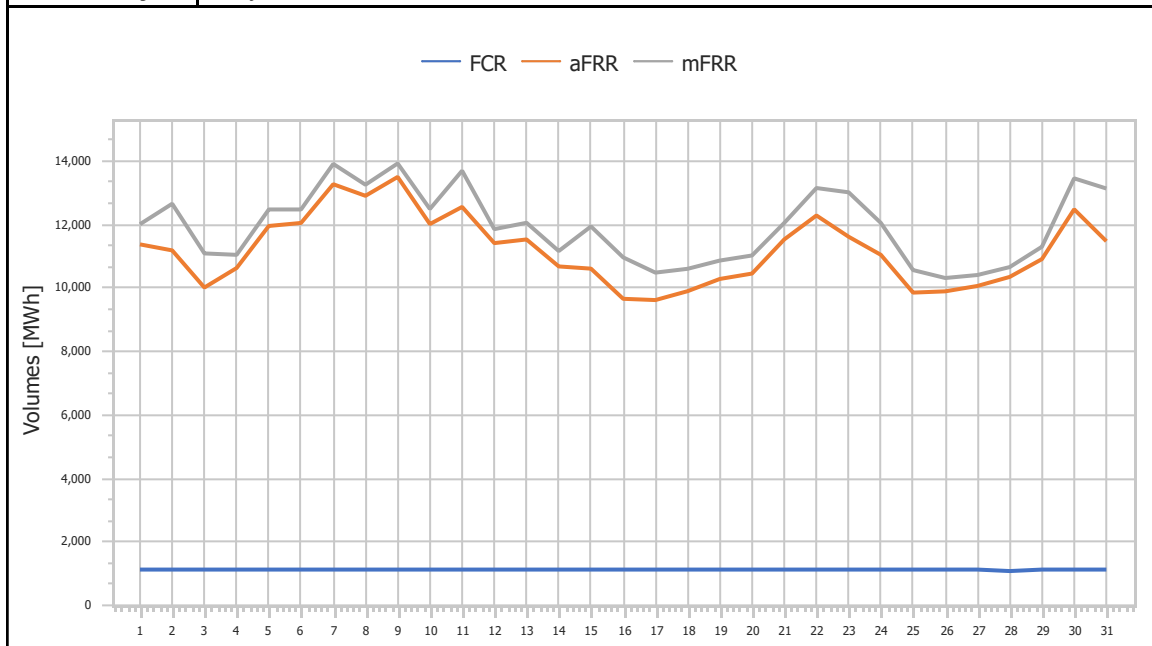
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Title	Upward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



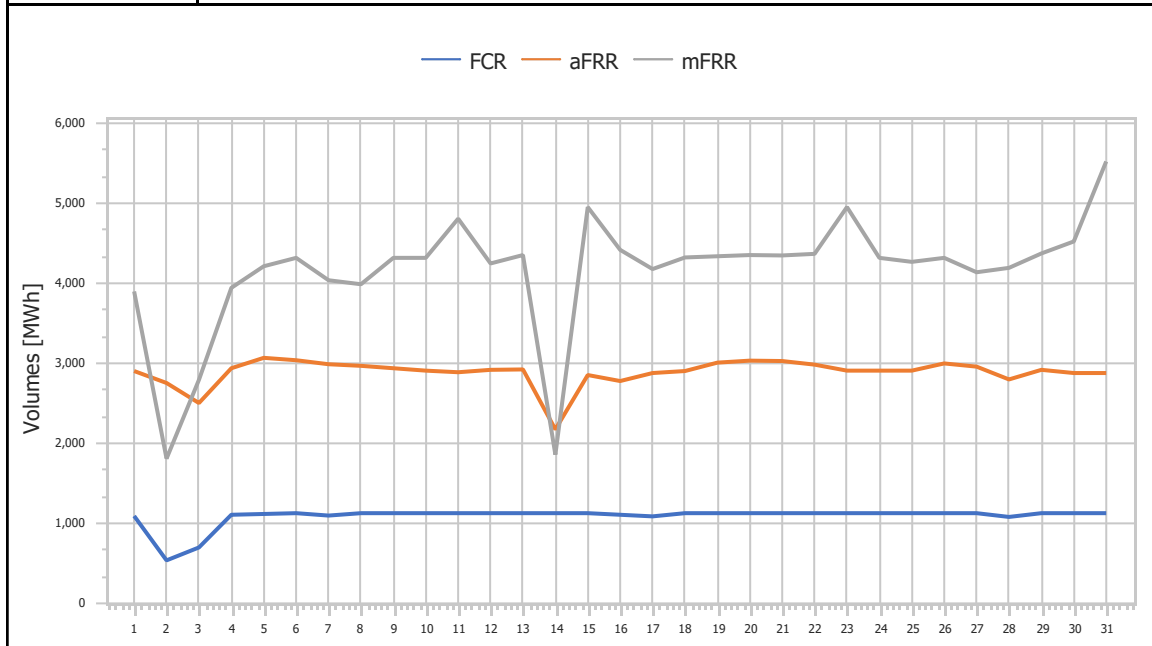
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Title	Downward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



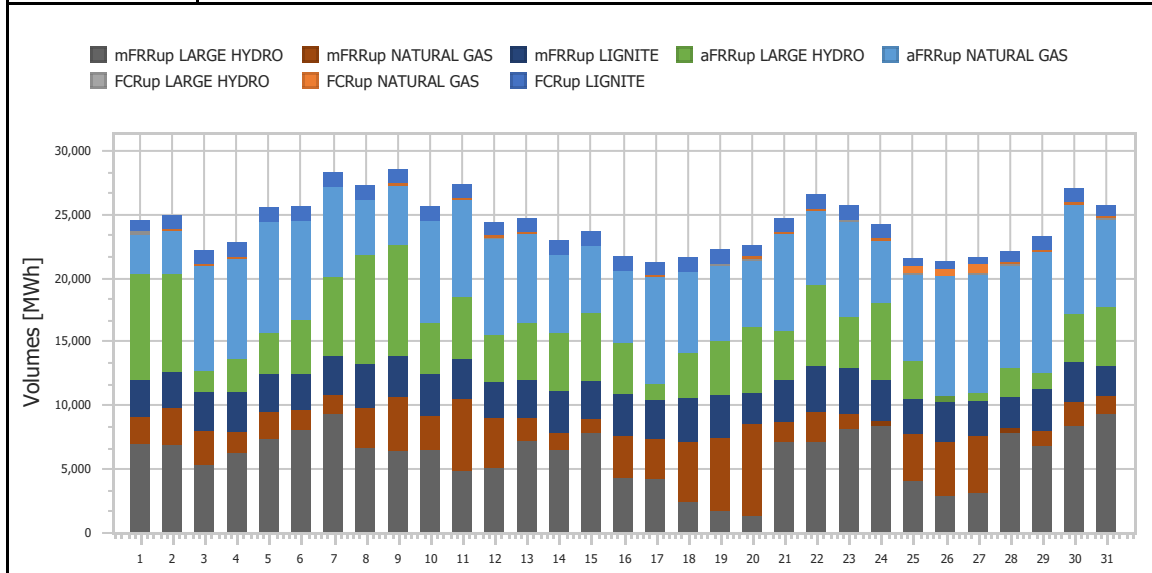
Ref No	Graph 3.10
Title	Upward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

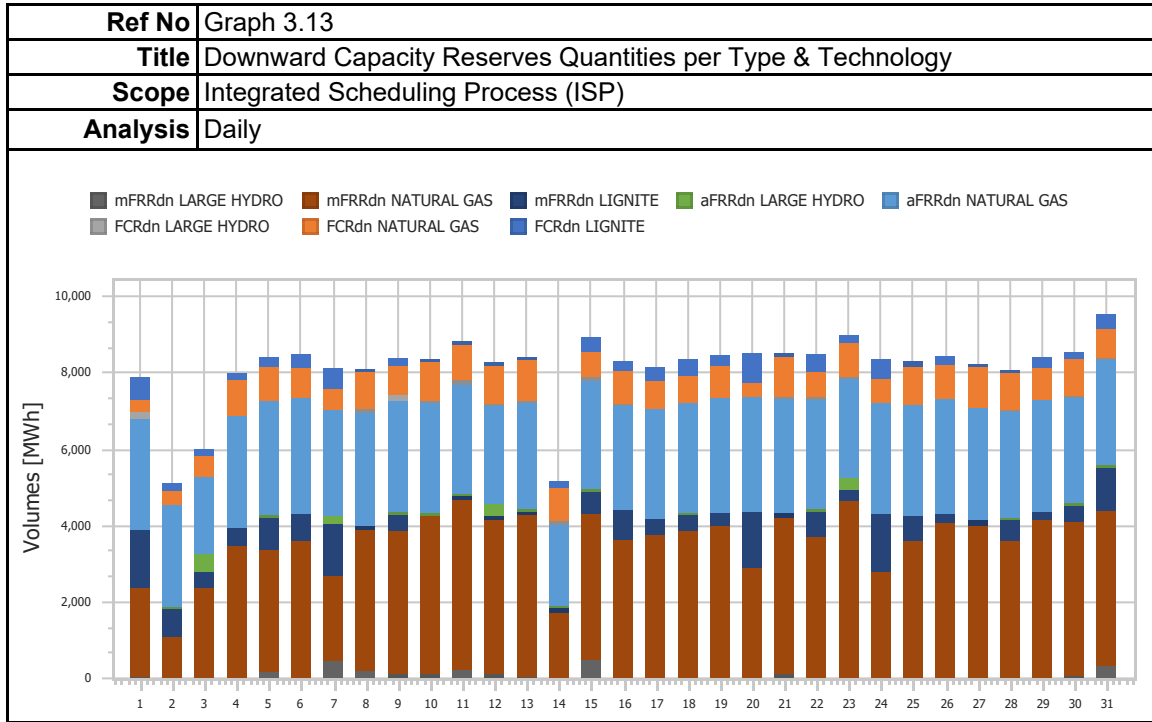


Ref No	Graph 3.11
Title	Downward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

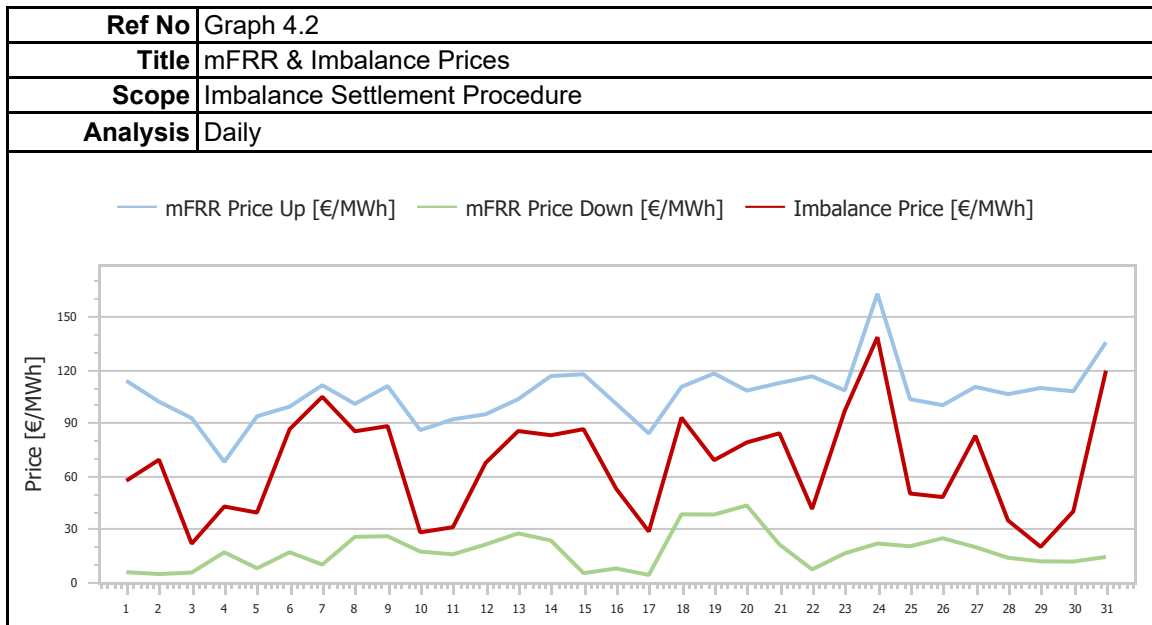
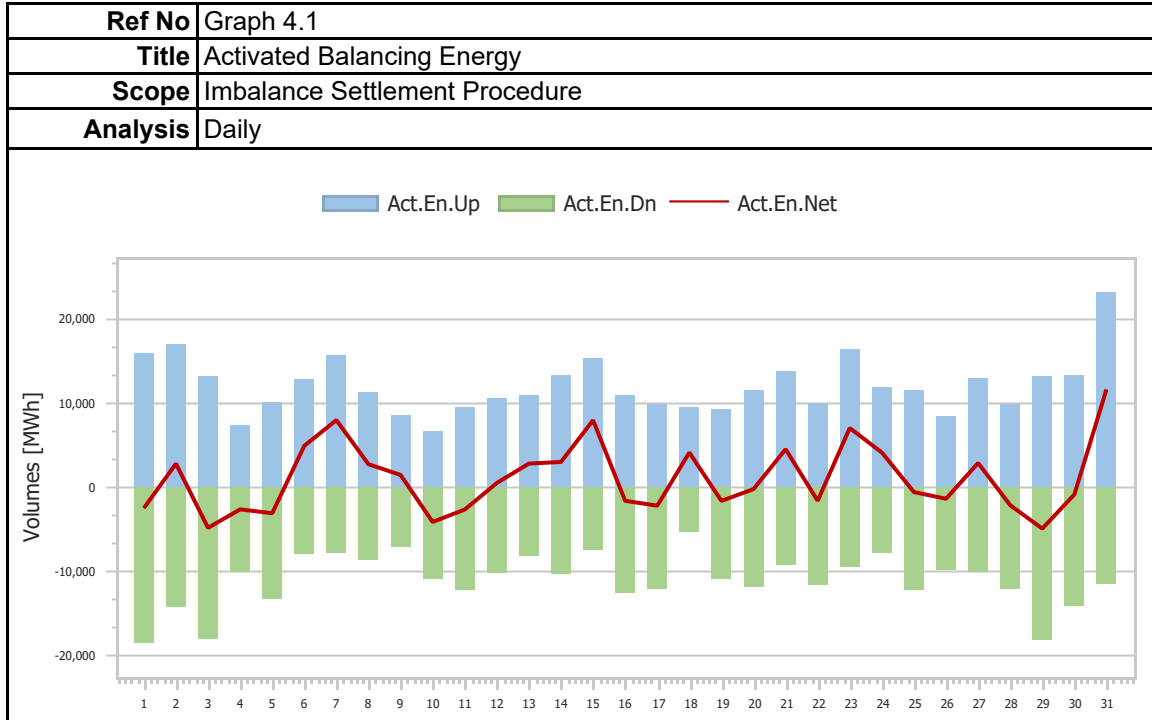


Ref No	Graph 3.12
Title	Upward Capacity Reserves Volumes per Technology
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

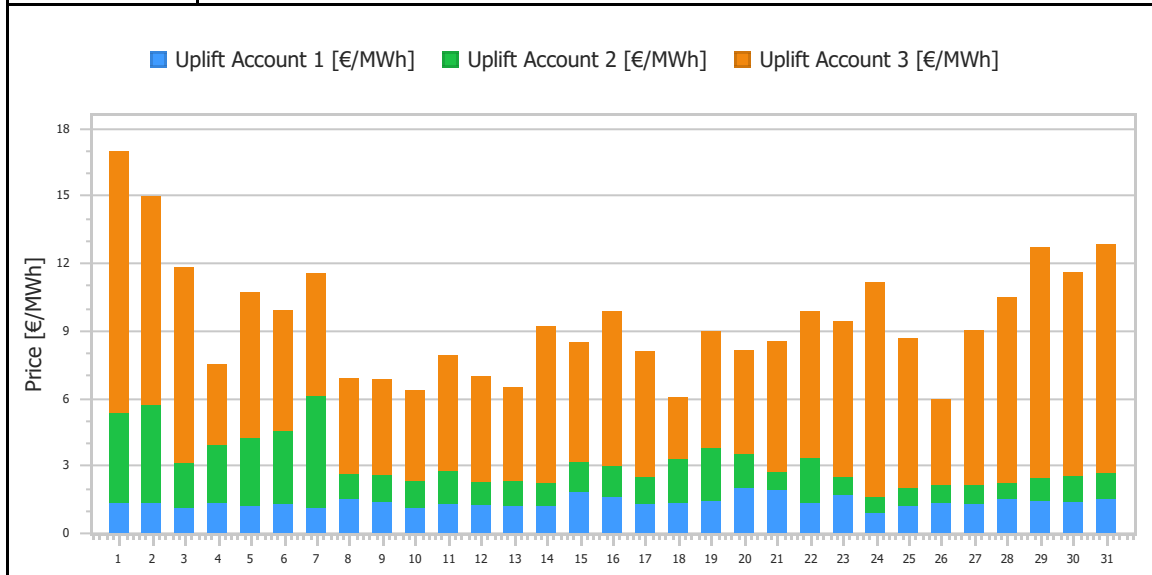




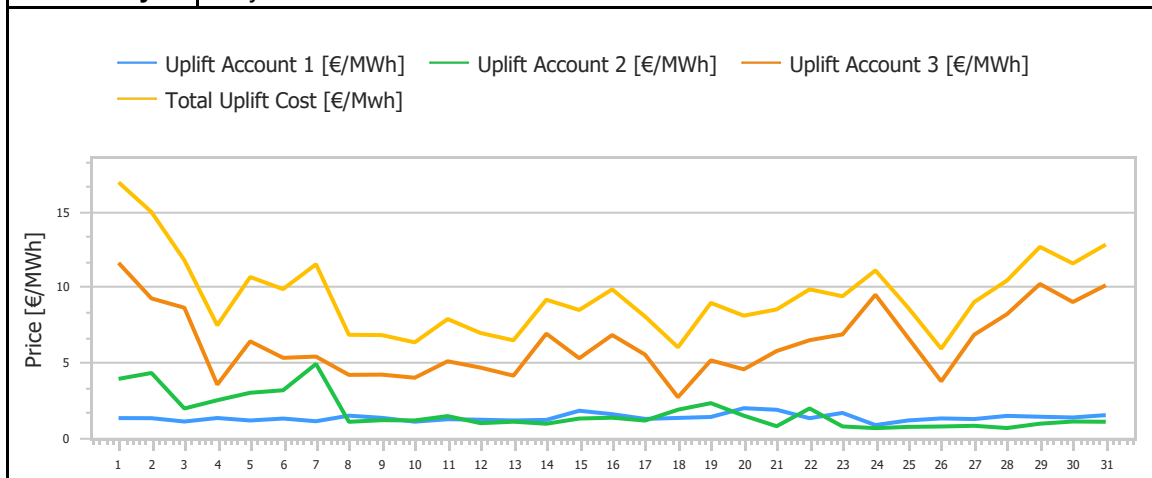
4. Imbalance Settlement Procedure



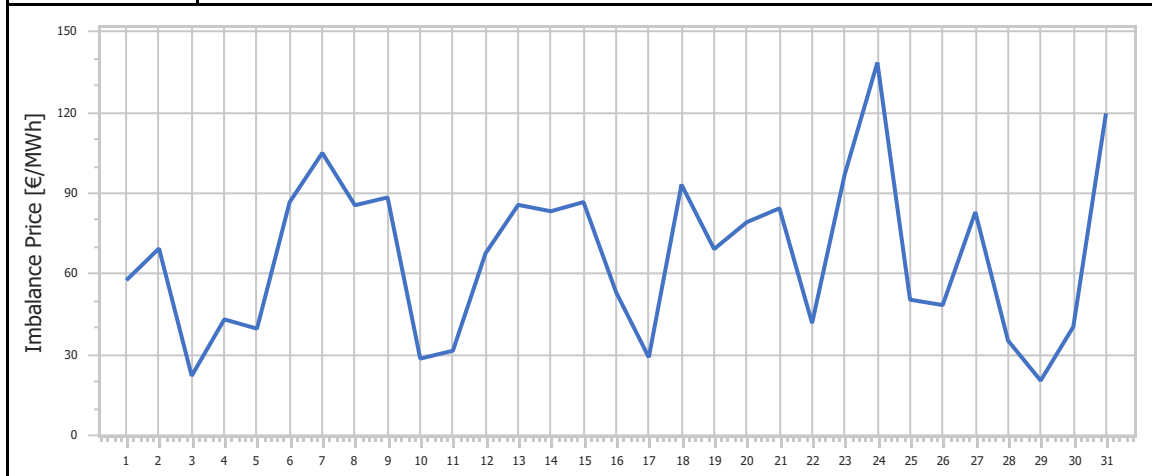
Ref No	Graph 4.3
Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



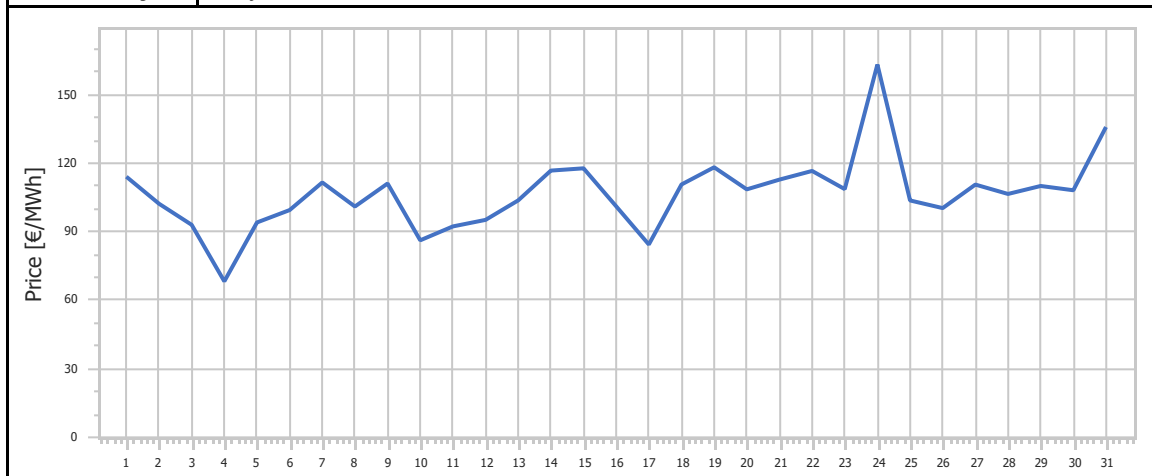
Ref No	Graph 4.4
Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



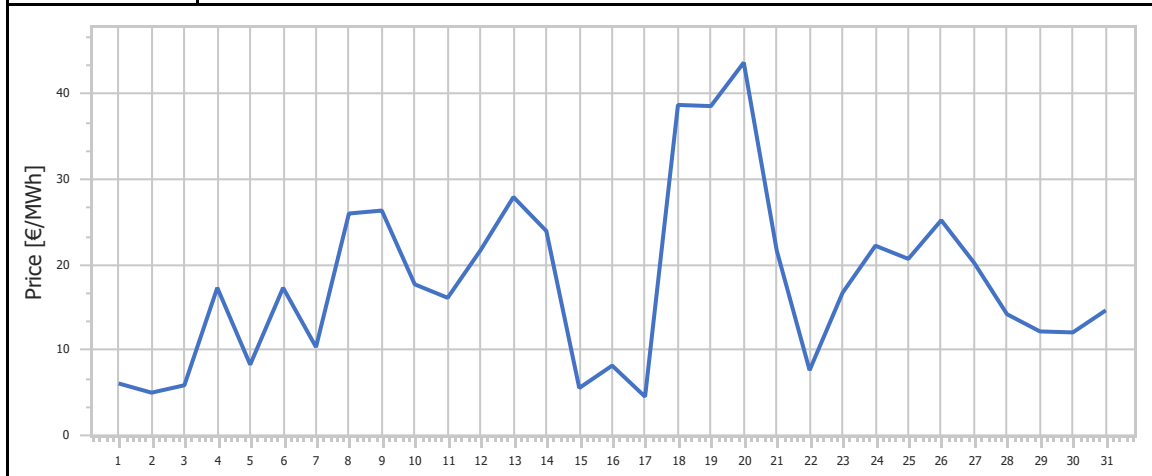
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Title	Imbalance Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



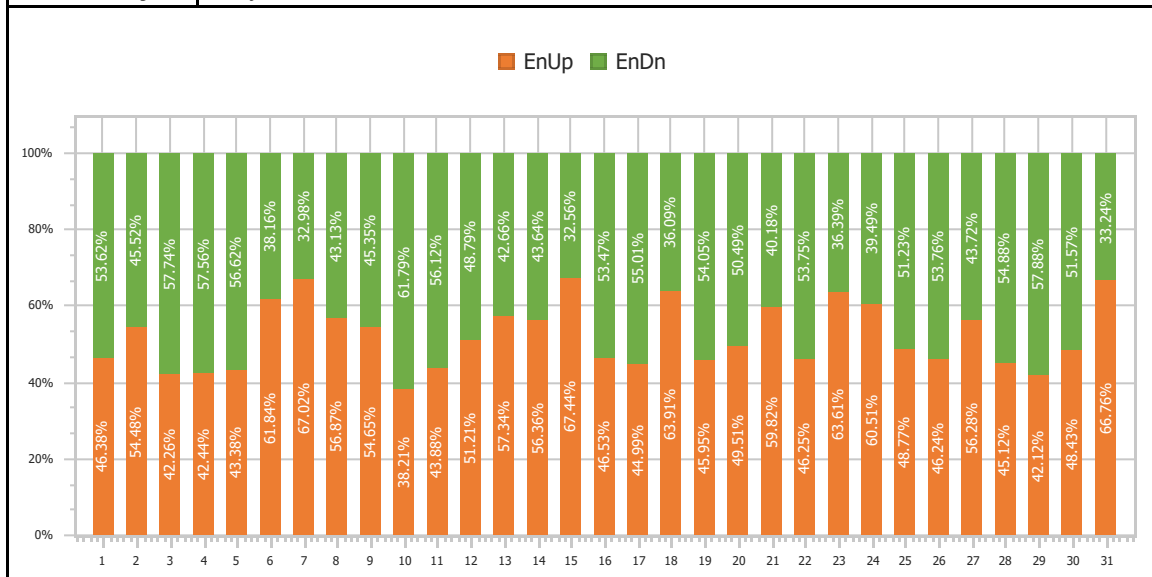
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Title	mFRR Up Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



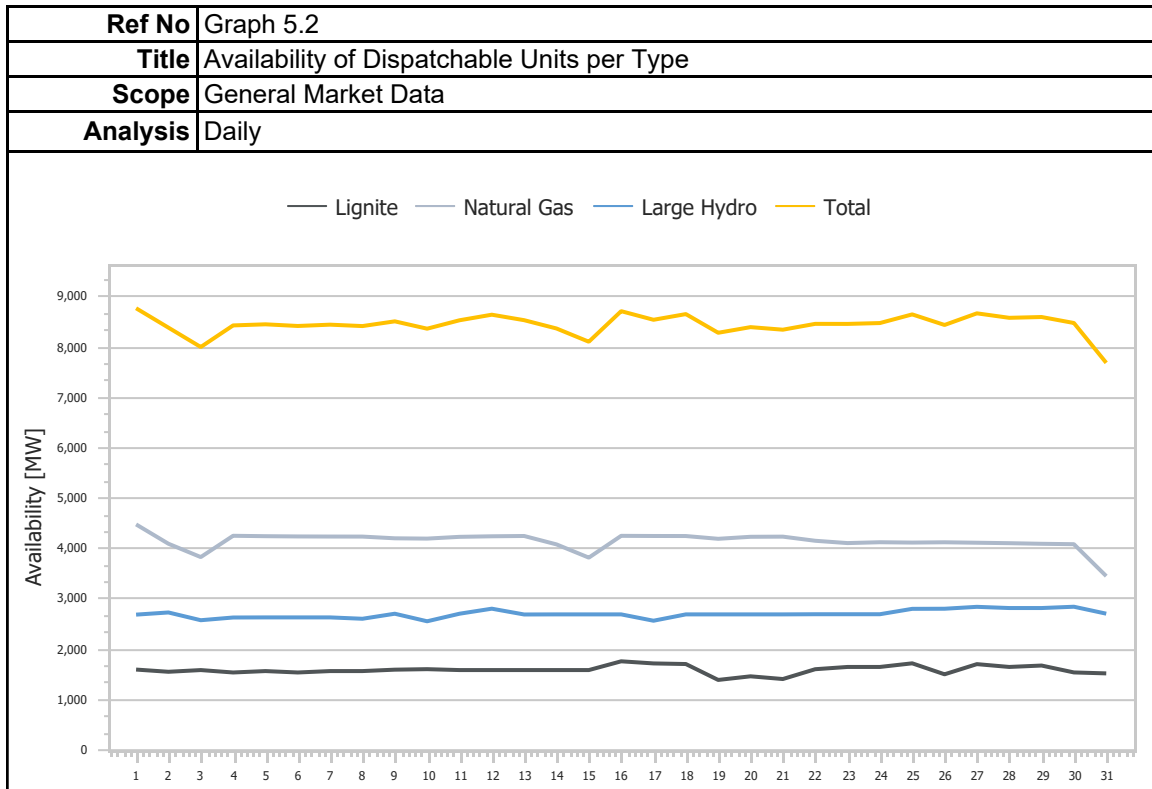
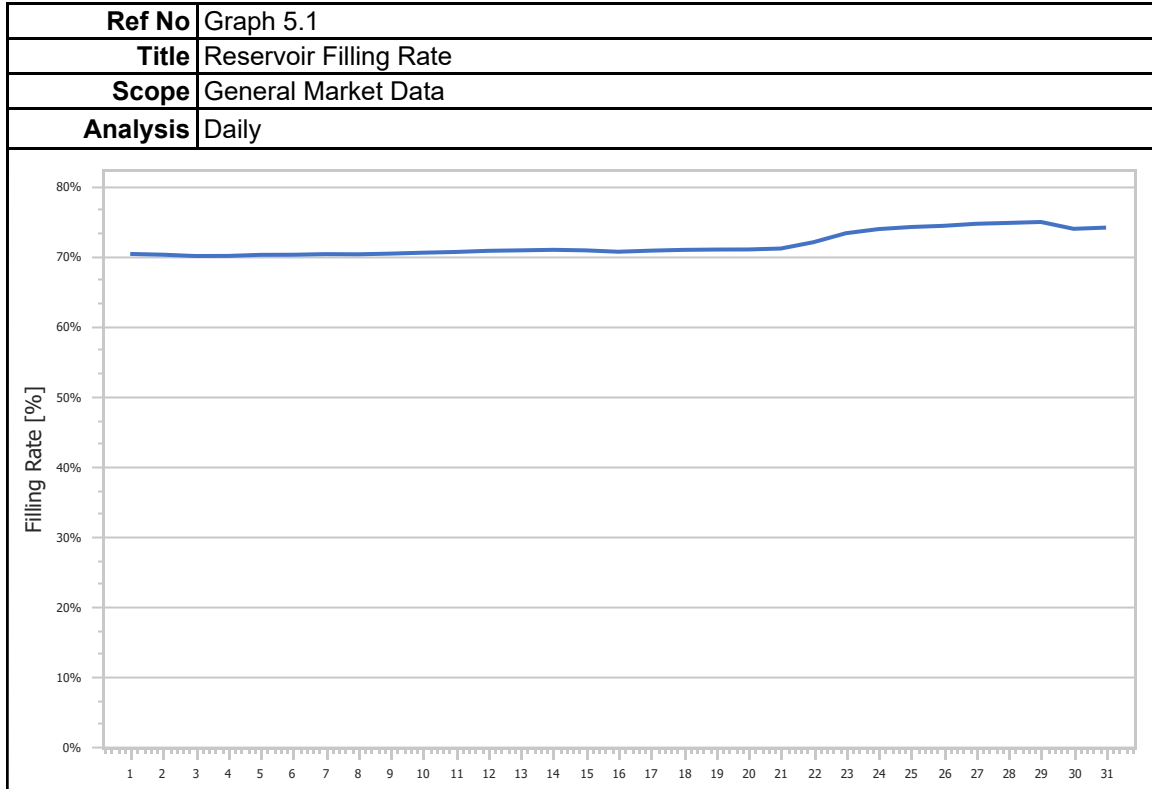
Ref No	Graph 4.7
Title	mFRR Down Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



Ref No	Graph 4.8
Title	Balancing Energy Activation Direction
Scope	Imbalance Settlement Procedure
Analysis	Daily



5. General Market Data



1. Statistics

Ref No	Table 1.1			
Title	Market Shares per Aggregated Classification - SELL			
Scope	Day Ahead Market (DAM)			
Analysis	Monthly			
Classification	Quantity [MWh]	Share [%]	Value [EUR]	Share [%]
Lignite	610,478.570	13.46%	35,429,731.13€	13.36%
Crete Conventional	-	0.00%	- €	0.00%
Natural Gas	1,532,206.642	33.79%	92,726,666.13€	34.96%
Large Hydro	193,747.000	4.27%	12,373,327.74€	4.66%
RES	1,337,361.656	29.49%	74,331,225.36€	28.02%
Crete Renewables	-	0.00%	- €	0.00%
Imports	860,922.620	18.99%	50,401,002.45€	19.00%
Total	4,534,716.486	100.00%	265,261,952.81€	100.00%

Ref No	Table 1.2						
Title	Statistics per Aggregated Classification - SELL						
Scope	Day Ahead Market (DAM)						
Analysis	Monthly						
	MCP [€/MWh]	Total [MWh]	Lignite [MWh]	Natural Gas [MWh]	Hydro [MWh]	RES [MWh]	Imports [MWh]
Total	-	4,534,716.49	610,478.57	1,532,206.64	193,747.00	1,337,361.66	860,922.62
Average	57.65	146,281.18	19,692.86	49,426.02	6,249.90	43,140.70	27,771.70
Min	42.56	123,336.92	14,832.00	32,371.04	2,733.00	24,470.36	13,317.58
Min day	15	14	14	15	20	8	25
Max	70.57	160,015.78	24,059.00	67,125.01	15,228.00	80,742.39	37,060.41
Max day	18	24	24	26	2	31	10
Spread	28.02	36,678.86	9,227.00	34,753.96	12,495.00	56,272.03	23,742.83
Standard Deviation	6.34	8,842.89	2,273.11	9,515.69	3,441.52	13,832.44	7,084.71

Ref No	Table 1.3			
Title	Market Shares per Aggregated Classification - BUY			
Scope	Day Ahead Market (DAM)			
Analysis	Monthly			
Classification	Quantity [MWh]	Share [%]	Value [EUR]	Share [%]
System Losses	89,684.000	1.98%	5,250,761.50€	1.98%
Crete Load	-	0.00%	- €	0.00%
HV Load	703,310.294	15.51%	40,448,626.69€	15.25%
MV Load	801,078.536	17.67%	46,917,863.04€	17.69%
LV Load	2,607,333.419	57.50%	154,317,995.97€	58.18%
PUMP	1,258.310	0.03%	41,510.14€	0.02%
Exports	332,052.860	7.32%	18,285,240.02€	6.89%
Total	4,534,717.420	100.00%	265,261,997.34€	100.00%

Ref No	Table 1.4							
Title	Statistics per Aggregated Classification - BUY							
Scope	Day Ahead Market (DAM)							
Analysis	Monthly							
	MCP [€/MWh]	Total [MWh]	Sys Losses [MWh]	HV [MWh]	MV [MWh]	LV [MWh]	PUMP [MWh]	Exports [MWh]
Total	-	4,534,717.42	89,684.00	703,310.29	801,078.54	2,607,333.42	1,258.31	332,052.86
Average	57.65	146,281.21	2,893.03	22,687.43	25,841.24	84,107.53	629.16	10,711.38
Min	42.56	123,336.96	2,403.50	21,474.30	19,088.31	74,593.62	497.37	2,917.89
Min day	15	14	27	25	28	14	7	14
Max	70.57	160,015.69	3,682.50	24,288.81	29,104.90	92,914.59	760.94	24,408.48
Max day	18	24	30	13	24	26	3	31
Spread	28.02	36,678.73	1,279.00	2,814.51	10,016.60	18,320.98	263.57	21,490.59
Standard Deviation	6.34	8,842.88	268.28	857.13	3,536.12	4,810.61	131.78	4,768.22

2. Market Shares

Ref No	Table 2.1.1			
Title	Market Shares - Upward Capacity Reserves Volumes per Type			
Scope	Balancing Market (BM)			
Analysis	Monthly			
Type	Quantity [MW]	Share [%]	Value [EUR]	Share [%]
aFRR	1,336,758.120	61.02%	4,456,654.20€	72.16%
FCR	92,822.320	4.24%	90,466.04€	1.46%
mFRR	761,251.390	34.75%	1,628,716.21€	26.37%
Total	2,190,831.840	100.00%	6,175,836.46€	100.00%

Ref No	Table 2.1.2			
Title	Market Shares - Downward Capacity Reserves per Type			
Scope	Balancing Market(BM)			
Analysis	Monthly			
Type	Quantity [MW]	Share [%]	Value [EUR]	Share [%]
aFRR	351,235.120	36.45%	529,010.09€	46.77%
FCR	128,220.740	13.31%	135,678.37€	12.00%
mFRR	484,048.580	50.24%	466,401.37€	41.23%
Total	963,504.440	100.00%	1,131,089.83€	100.00%

Ref No	Table 2.1.3
Title	Market Shares - Upward Activated Balancing Energy per Type
Scope	Balancing Market (BM)
Analysis	Monthly

Type	Quantity [MWh]	Share [%]	Value [EUR]	Share [%]
aFRR	120,167.160	32.11%	13,446,104.35€	31.60%
mFRR	254,019.690	67.89%	29,107,406.74€	68.40%
Total	374,186.850	100.00%	42,553,511.10€	100.00%

Ref No	Table 2.1.4
Title	Market Shares - Downward Activated Balancing Energy per Type
Scope	Balancing Market (BM)
Analysis	Monthly

Type	Quantity [MWh]	Share [%]	Value [EUR]	Share [%]
aFRR	94,423.430	27.55%	1,598,286.86€	33.67%
mFRR	248,285.000	72.45%	3,149,108.90€	66.33%
Total	342,708.430	100.00%	4,747,395.77€	100.00%

3. Market Overview

Ref No	Table 3.1
Title	Total Transactions Quantity per Market
Scope	DAM, IDM, Balancing Energy Market
Analysis	Monthly

Market	Quantity [MWh]	Share [%]
DAM	4,534,716.49	97.55%
IDMA1	43,218.12	0.93%
IDMA2	25,278.63	0.54%
IDMA3	13,971.67	0.30%
IDM (Total)	82,468.42	1.77%
Balancing Energy (Up)	374,186.85	8.05%
Balancing Energy (Dn)	342,708.43	7.37%
Balancing Energy (Total)	31,478.42	0.68%
Total	4,648,663.33	100.00%

Ref No	Table 3.2
Title	Total Transactions Value per Market
Scope	DAM, IDM, Balancing Energy Market
Analysis	Monthly

Market	Value [EUR]	Share [%]
DAM	265,261,952.81€	84.16%
IDMA1	2,539,337.01€	0.81%
IDMA2	1,428,796.78€	0.45%
IDMA3	862,643.10€	0.27%
IDM (Total)	4,830,776.89€	1.53%
Balancing Capacity (Up)	6,175,836.46€	1.96%
Balancing Capacity (Dn)	1,131,089.83€	0.36%
Balancing Capacity (Total)	7,306,926.28€	2.32%
Balancing Energy (Up)	42,553,511.10€	13.50%
Balancing Energy (Dn)	4,747,395.77€	1.51%
Balancing Energy (Total)	37,806,115.33€	11.99%
Balancing Market (Total)	45,113,041.61€	14.31%
Total	315,205,771.31€	100.00%