

Market Monitoring Report

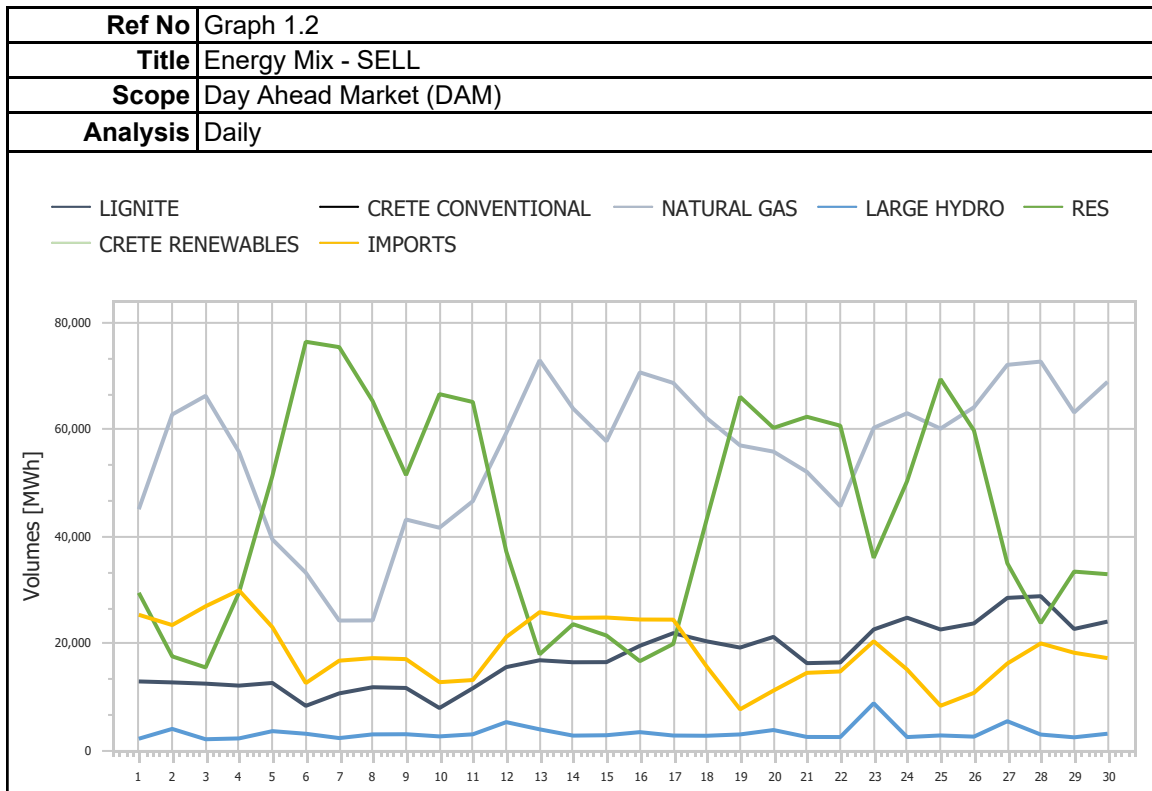
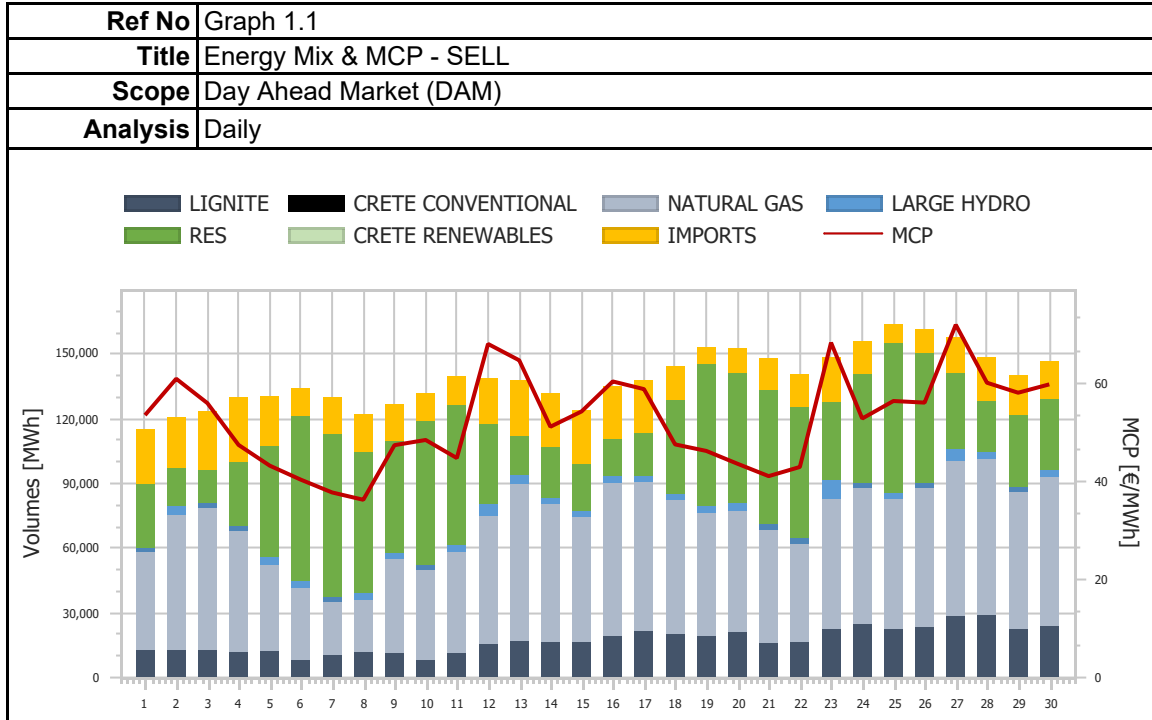
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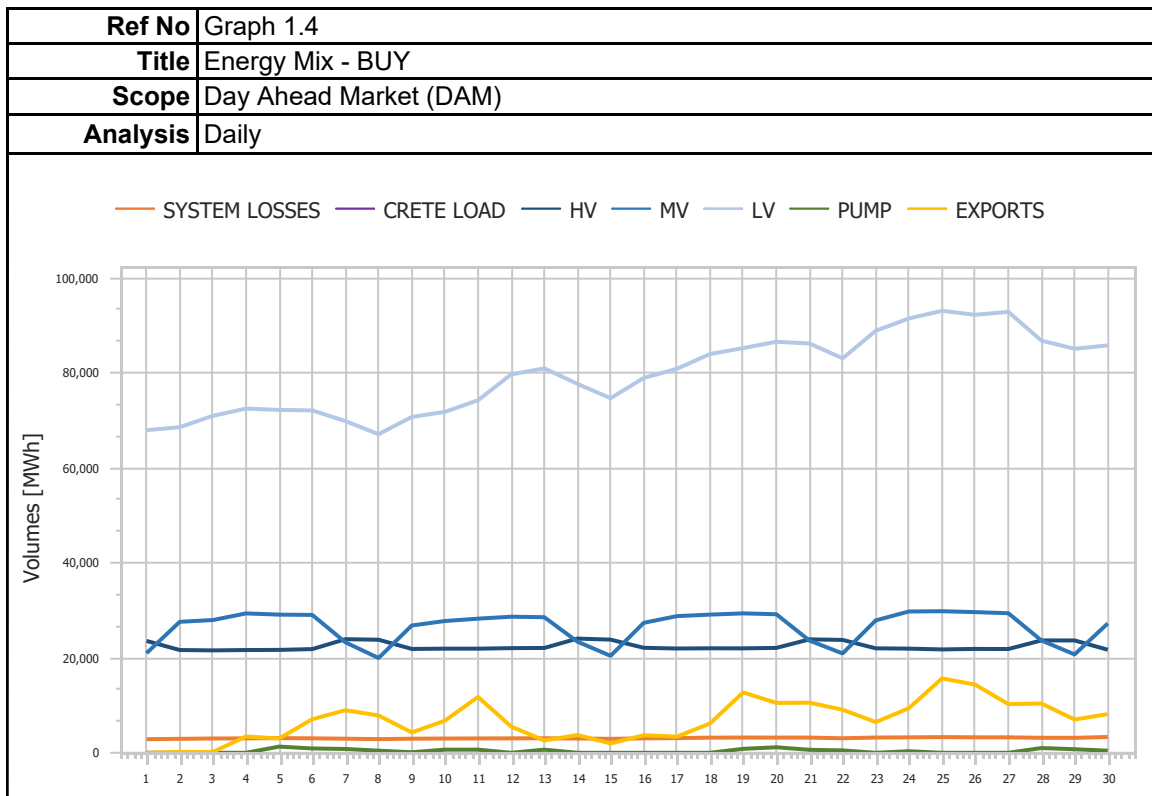
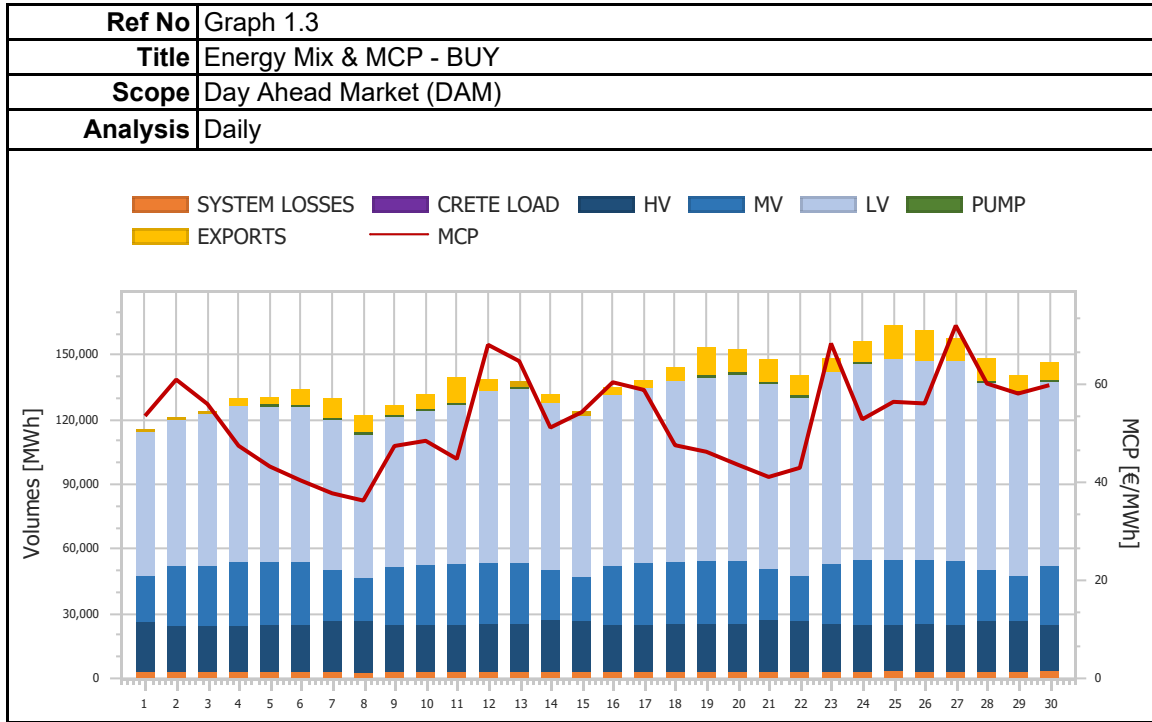
11-2020



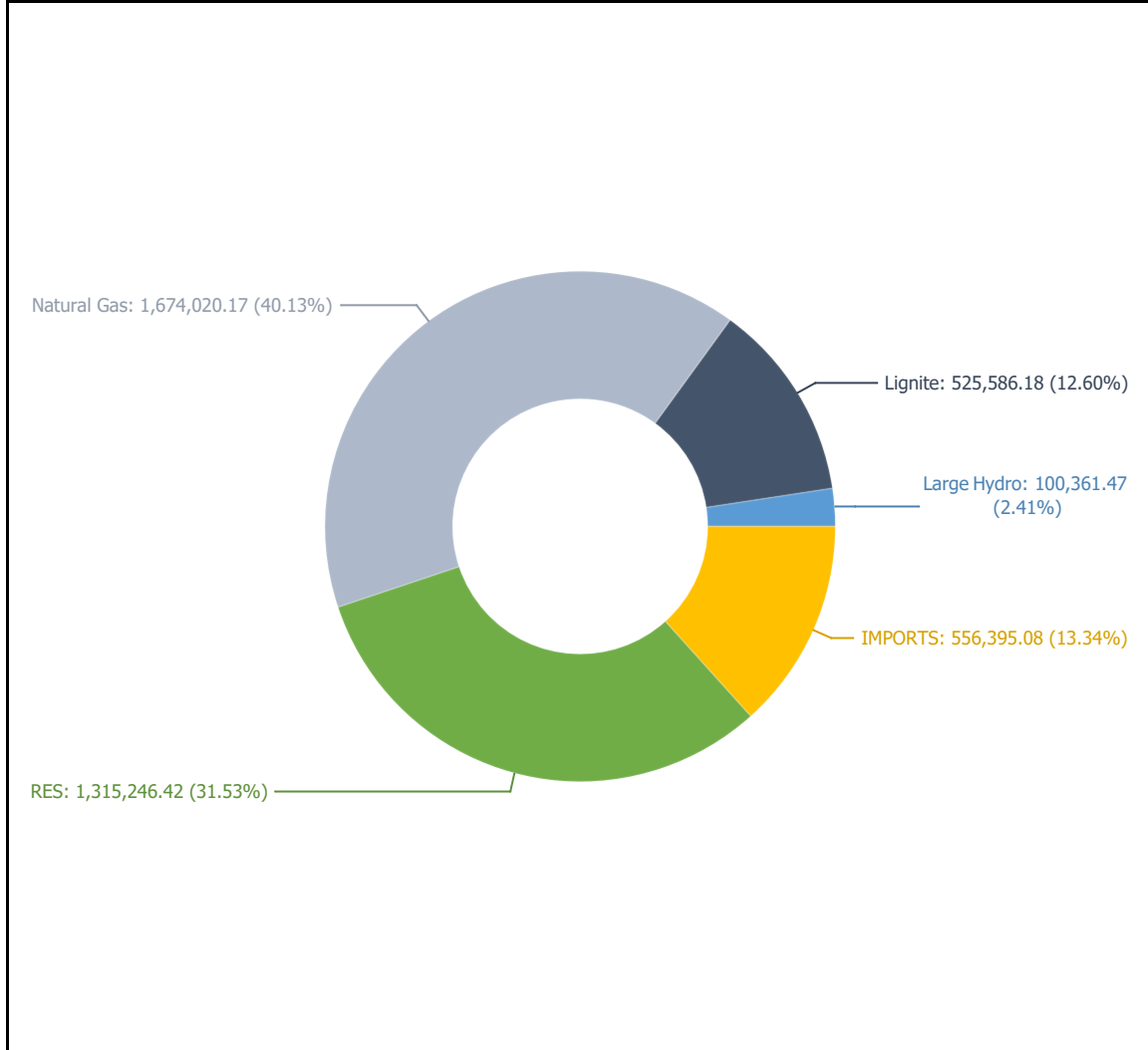
ΡΥΘΜΙΣΤΙΚΗ ΑΡΧΗ ΕΝΕΡΓΕΙΑΣ
REGULATORY AUTHORITY FOR ENERGY

1. Day Ahead Market (DAM)

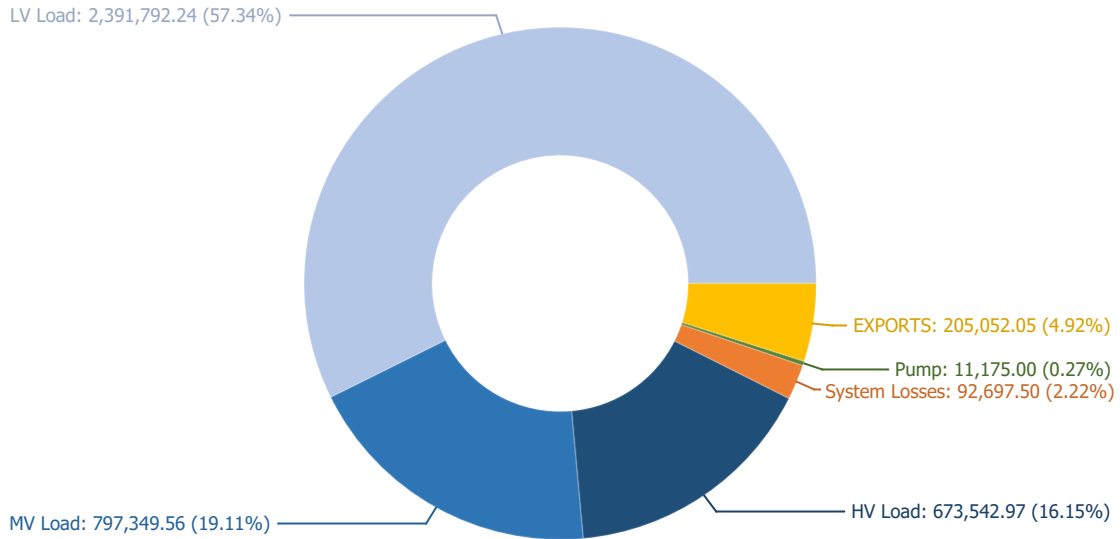




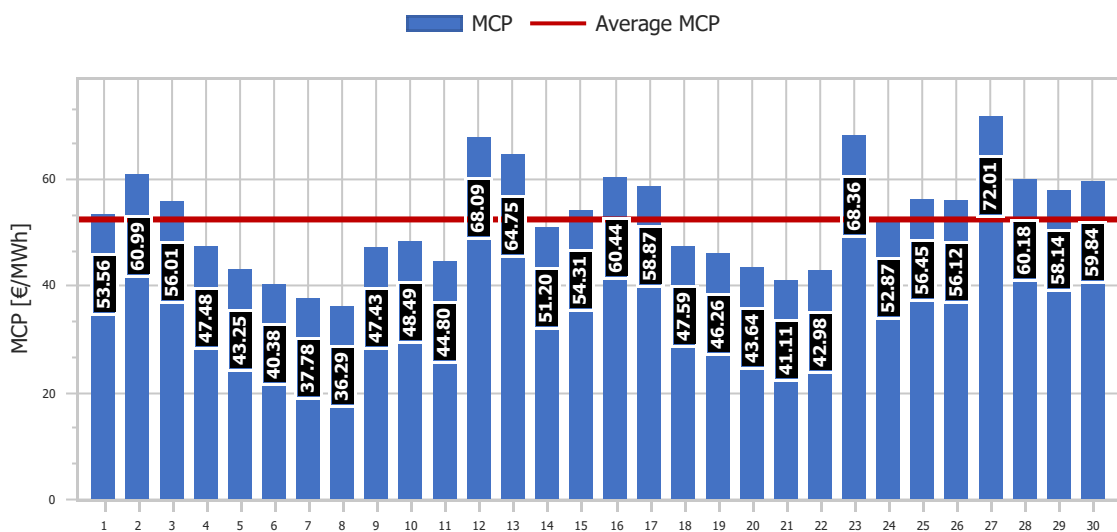
Ref No	Graph 1.5
Title	Energy Mix - SELL
Scope	Day Ahead Market (DAM)
Analysis	Daily



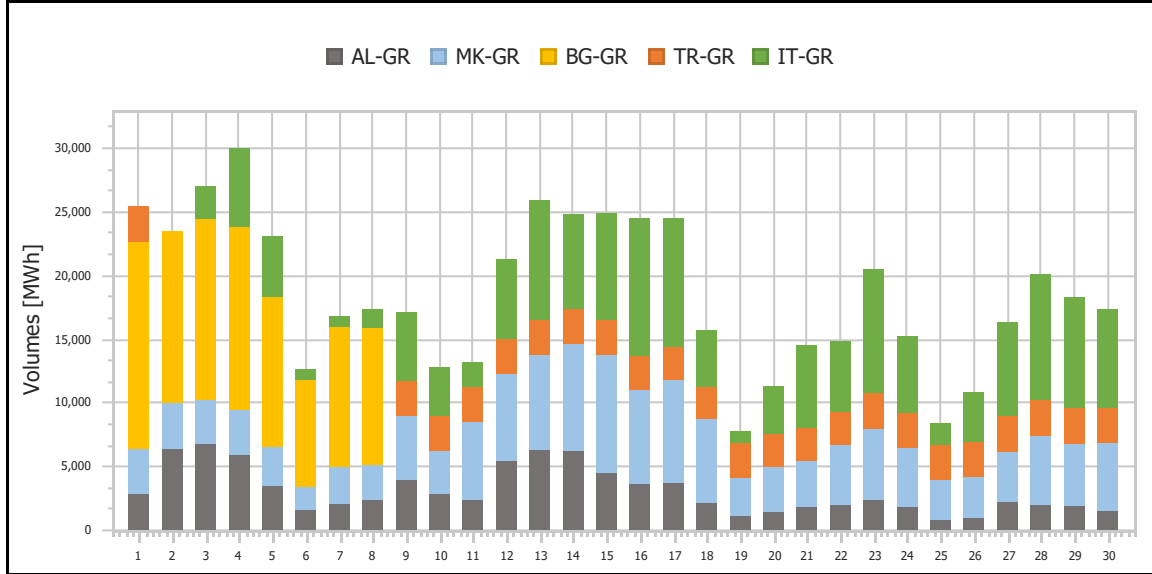
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Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily



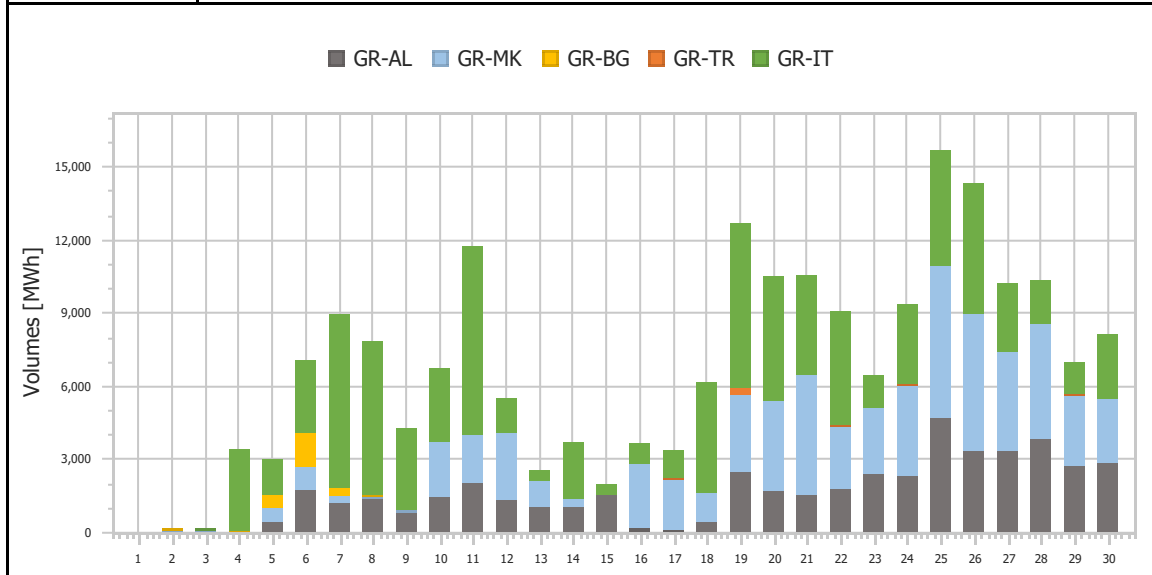
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Title	Market Clearing Price (MCP)
Scope	Day Ahead Market (DAM)
Analysis	Daily



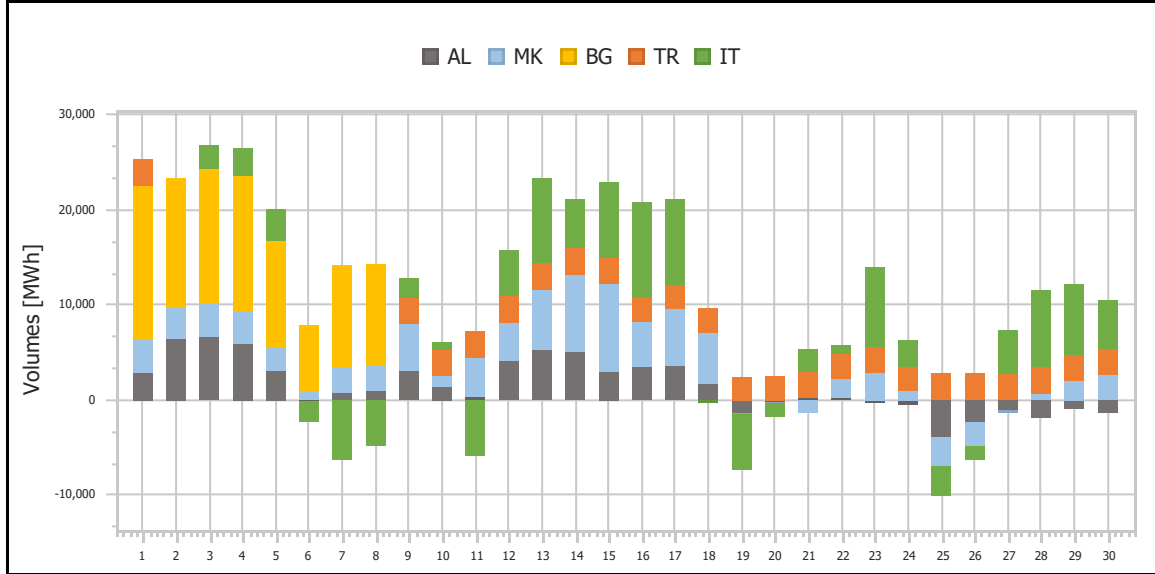
Ref No	Graph 1.8
Title	Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



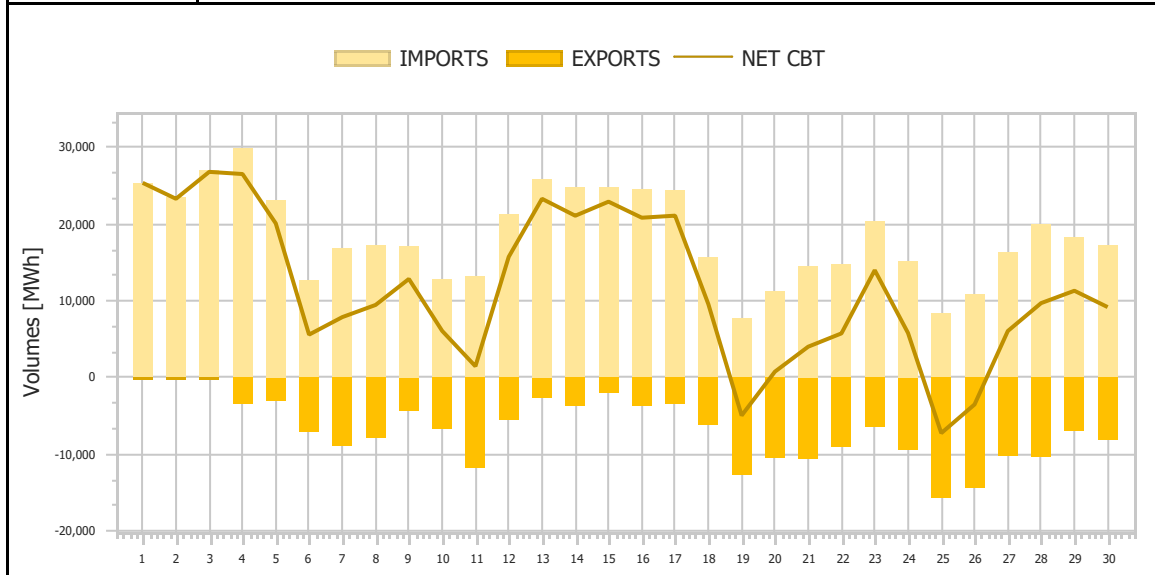
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Title	Exports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily

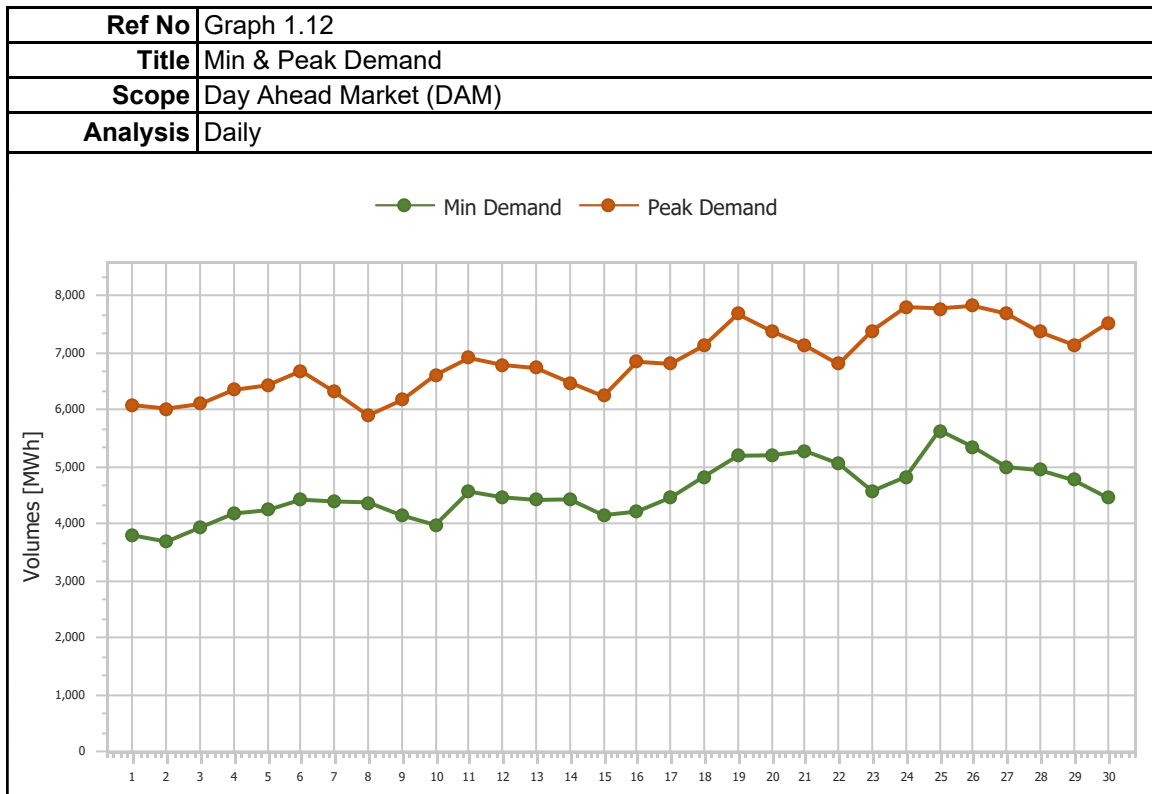


Ref No	Graph 1.10
Title	Net Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily

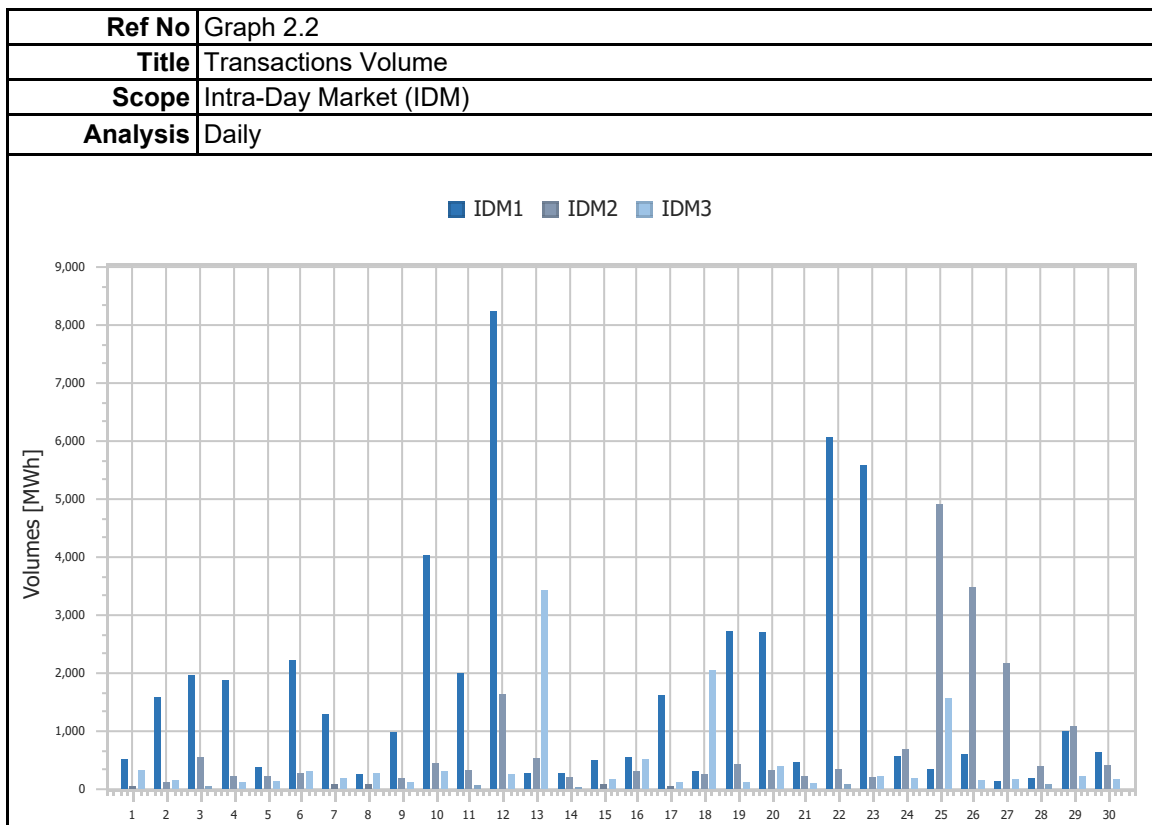
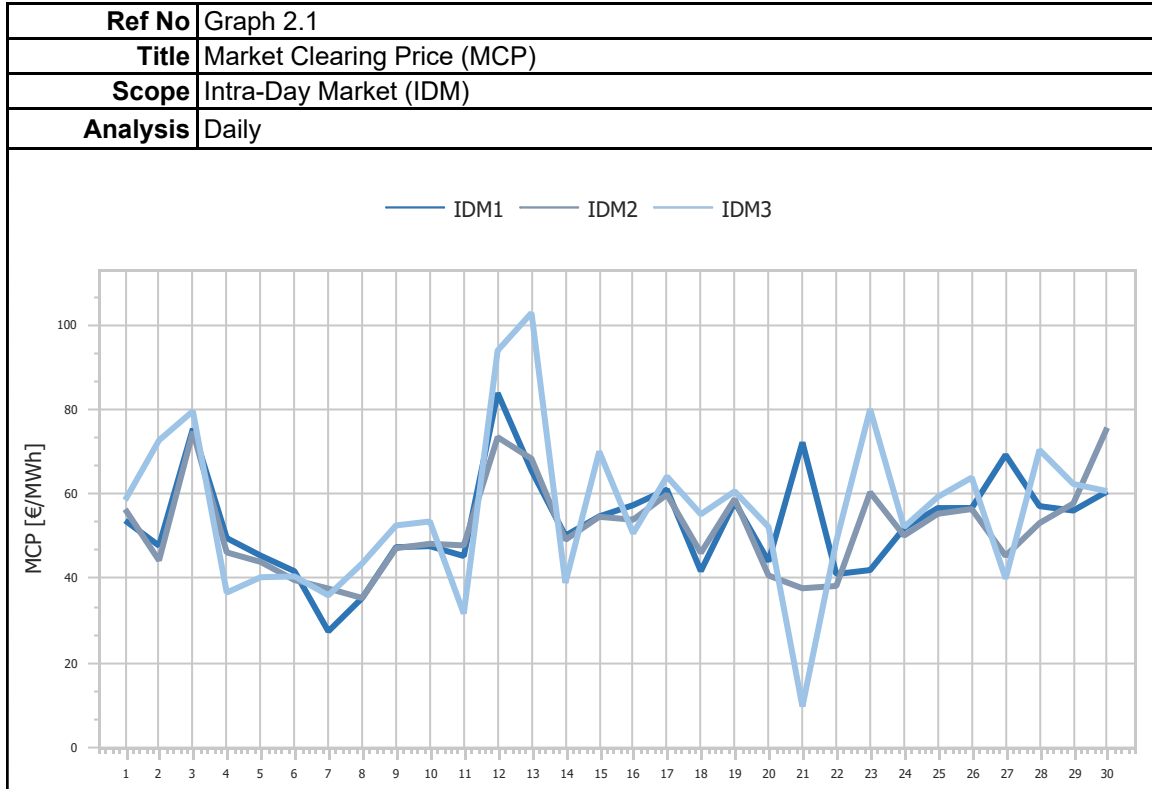


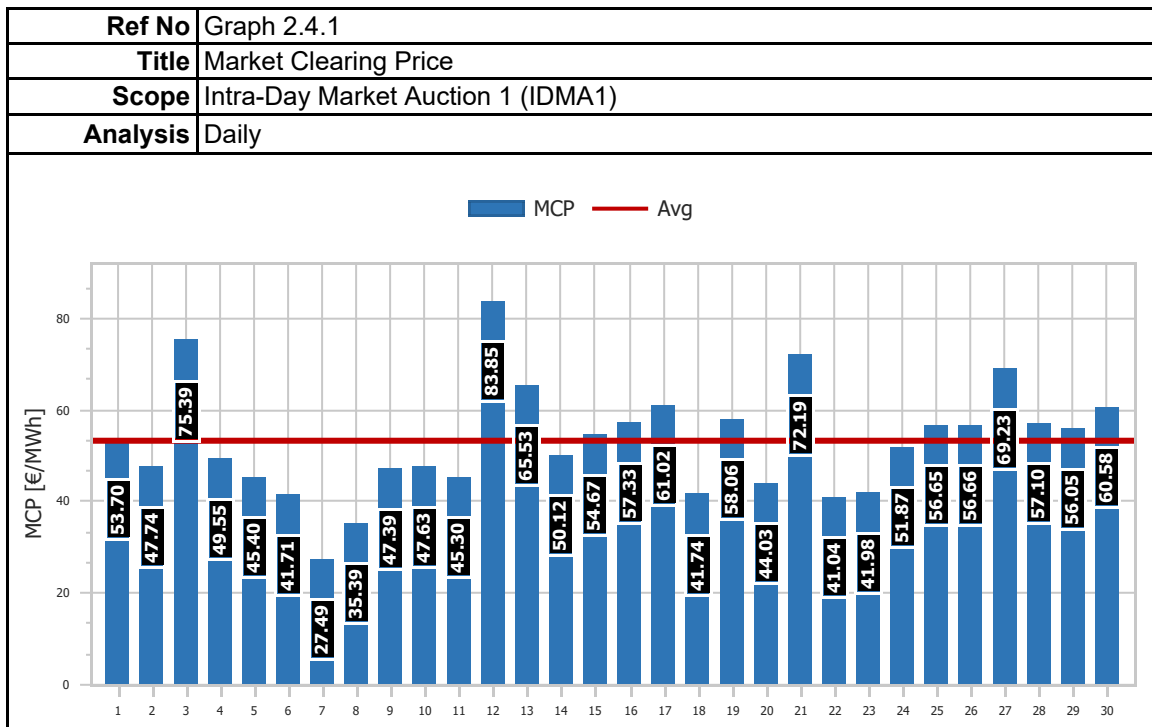
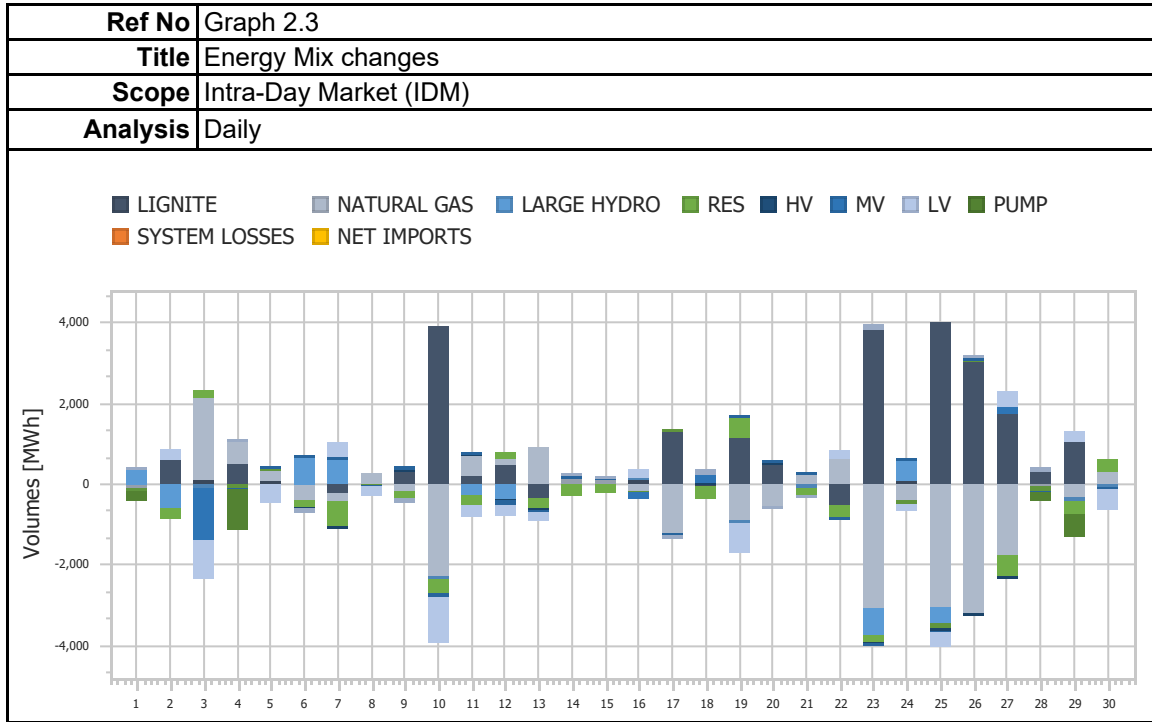
Ref No	Graph 1.11
Title	Total Imports & Exports
Scope	Day Ahead Market (DAM)
Analysis	Daily



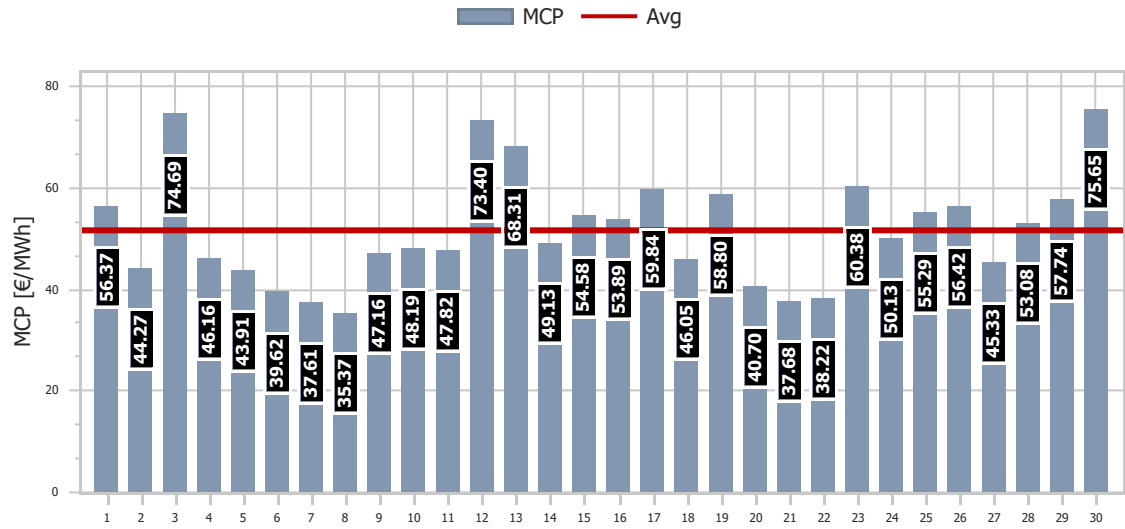


2. Intra-Day Market (IDM)

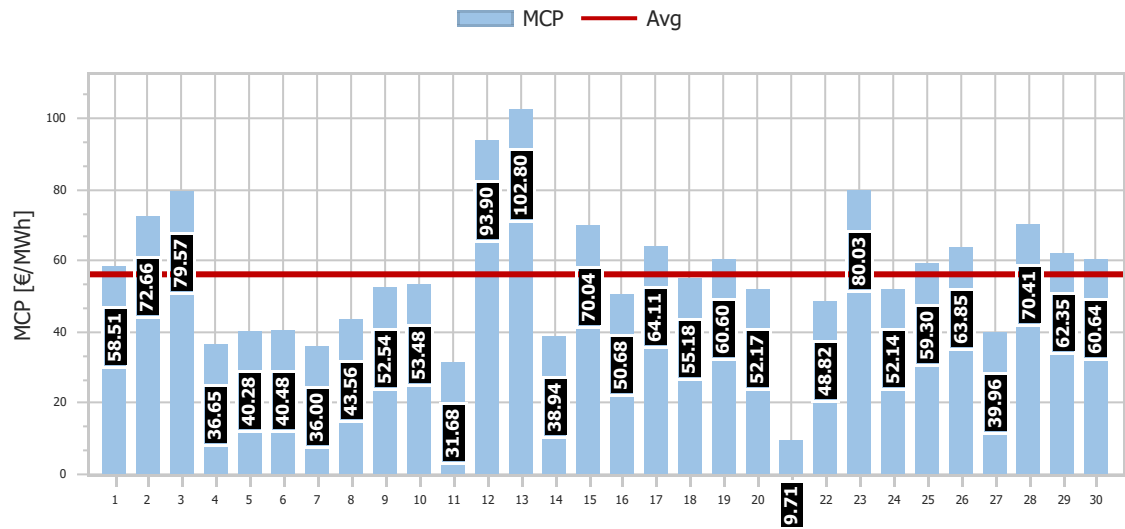




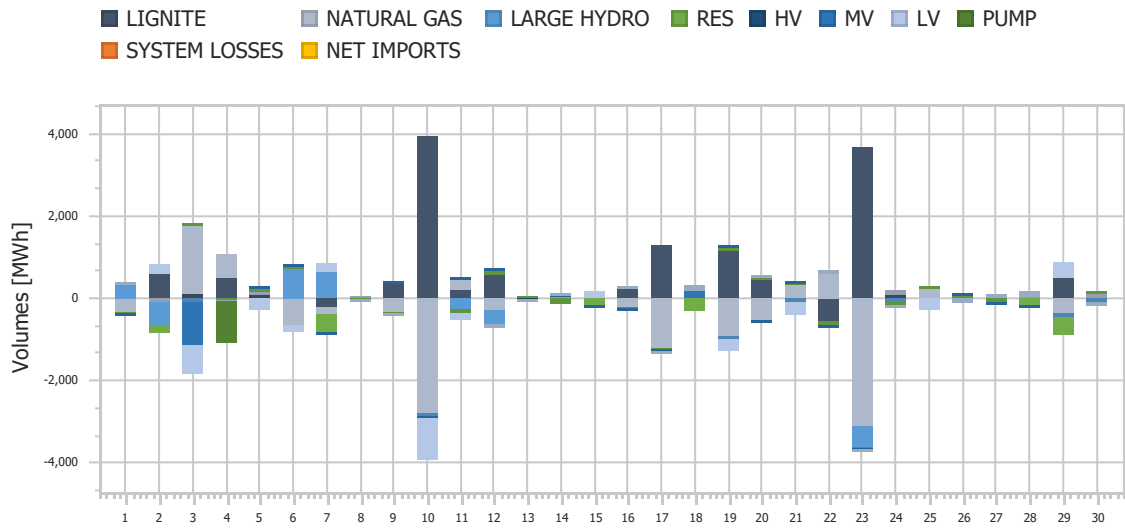
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Title	Market Clearing Price
Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



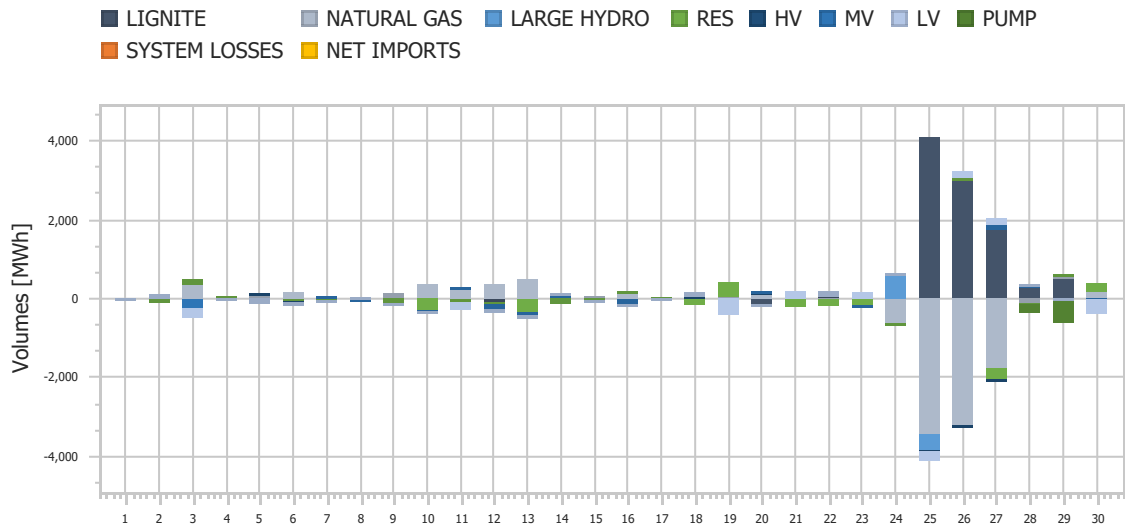
Ref No	Graph 2.4.3
Title	Market Clearing Price
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily



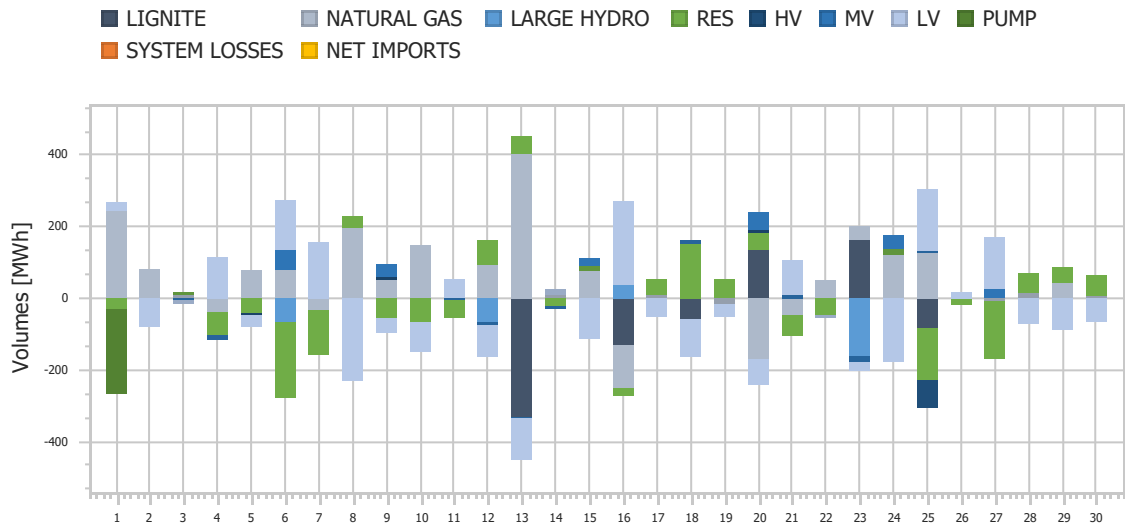
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Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 1 (IDMA1)
Analysis	Daily



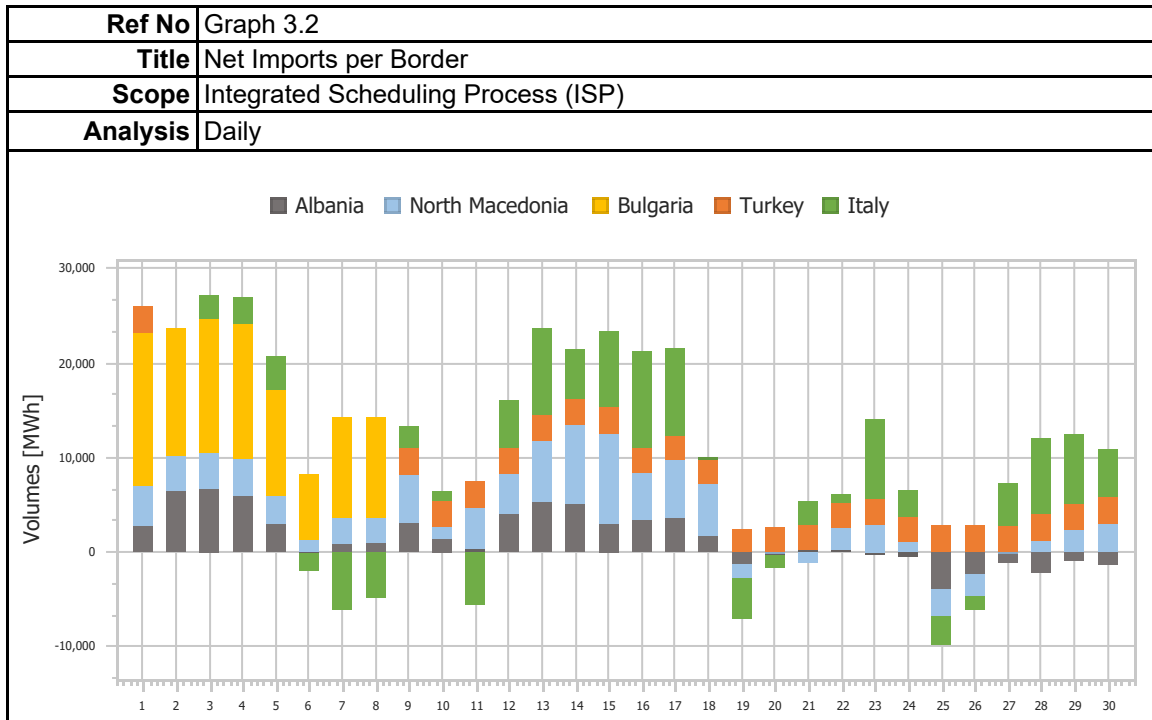
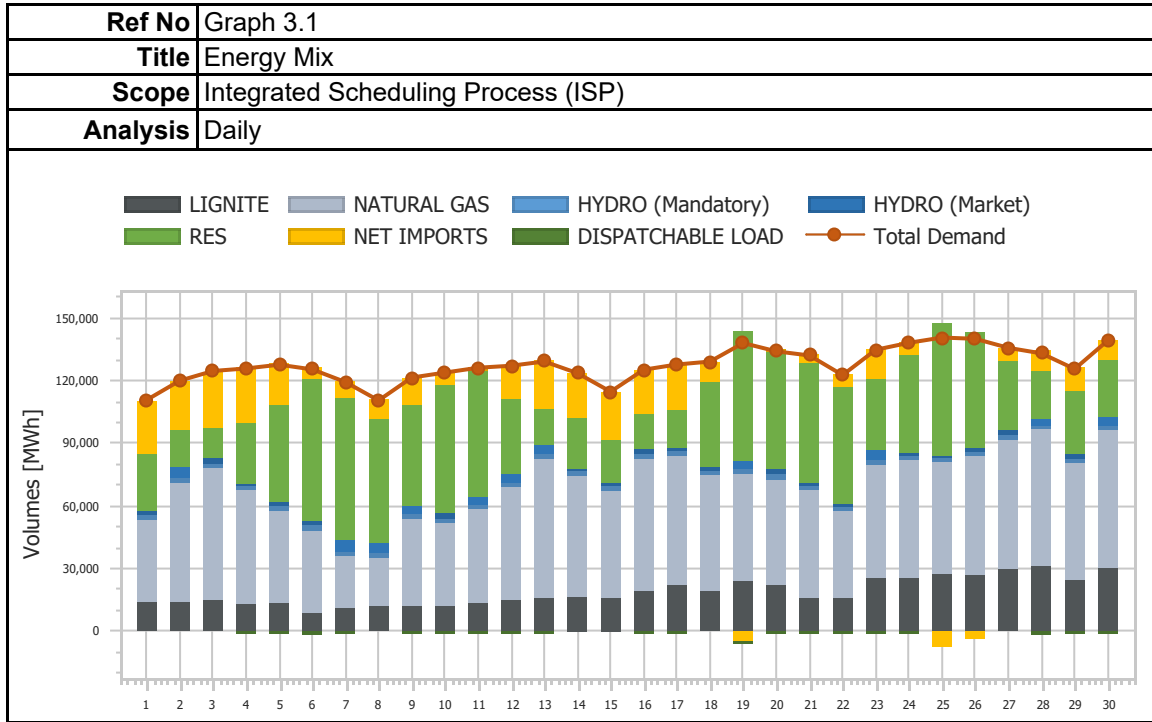
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Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



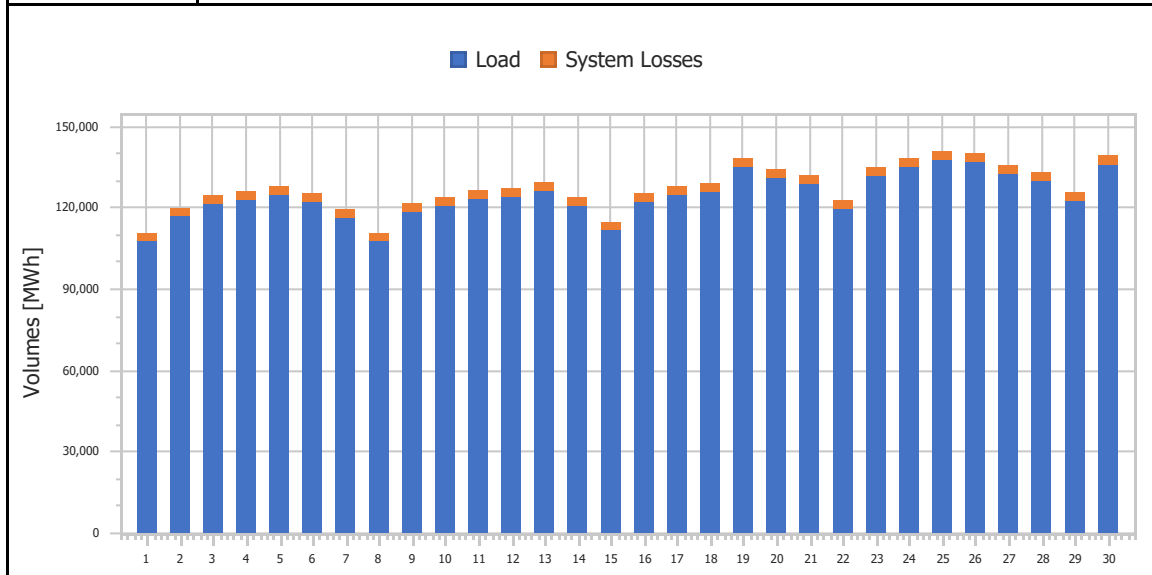
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Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily



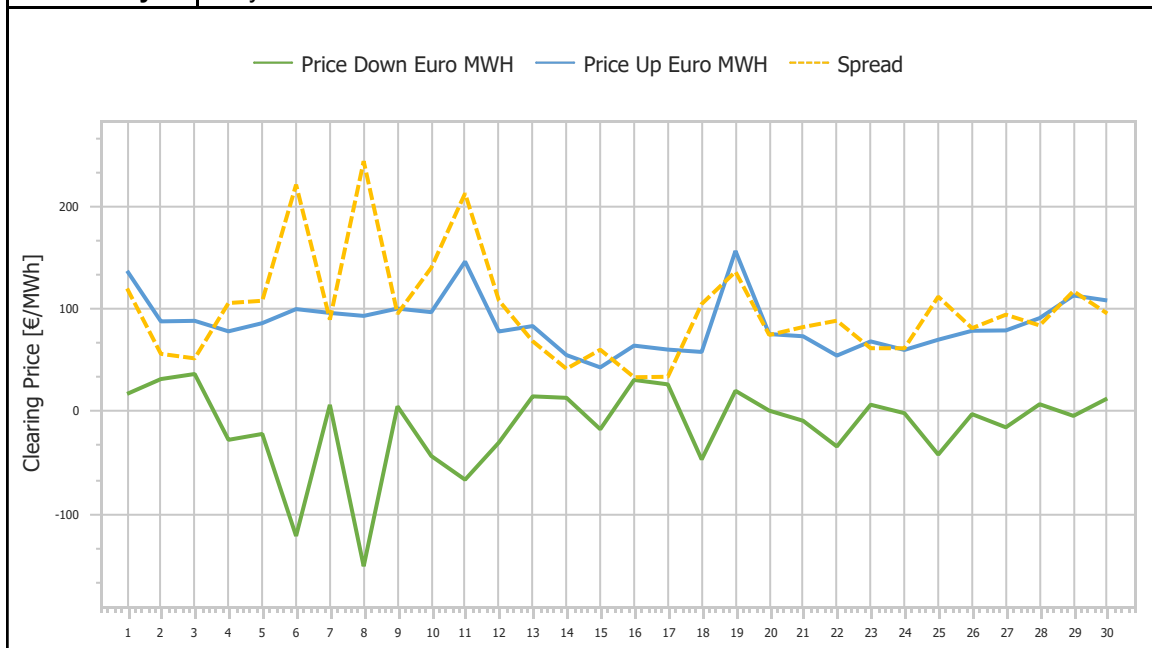
3. Integrated Scheduling Process (ISP)



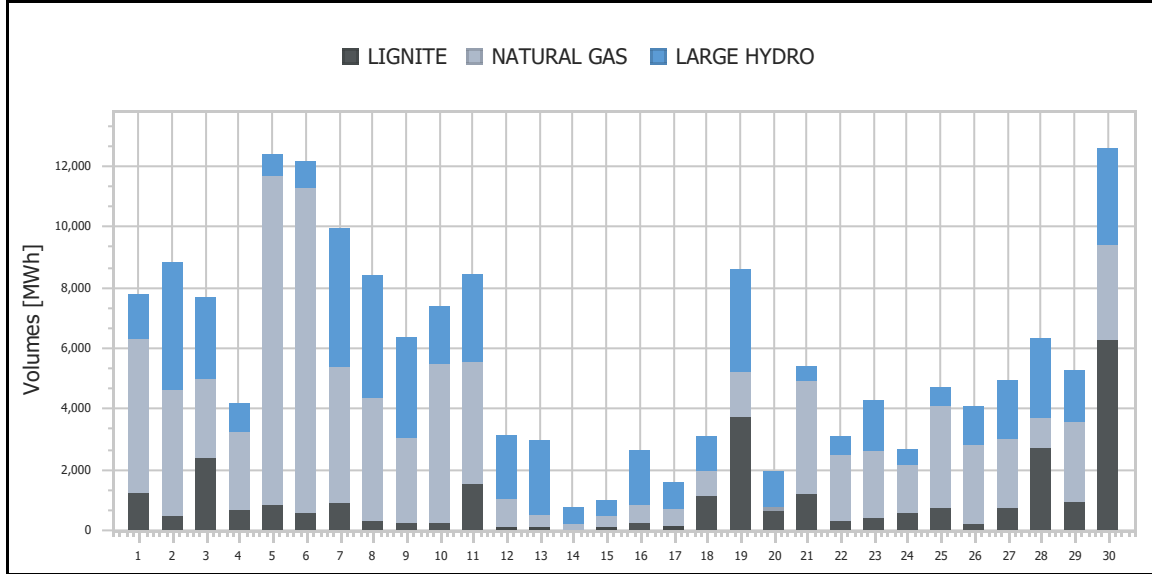
Ref No	Graph 3.3
Title	Demand & System Losses
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



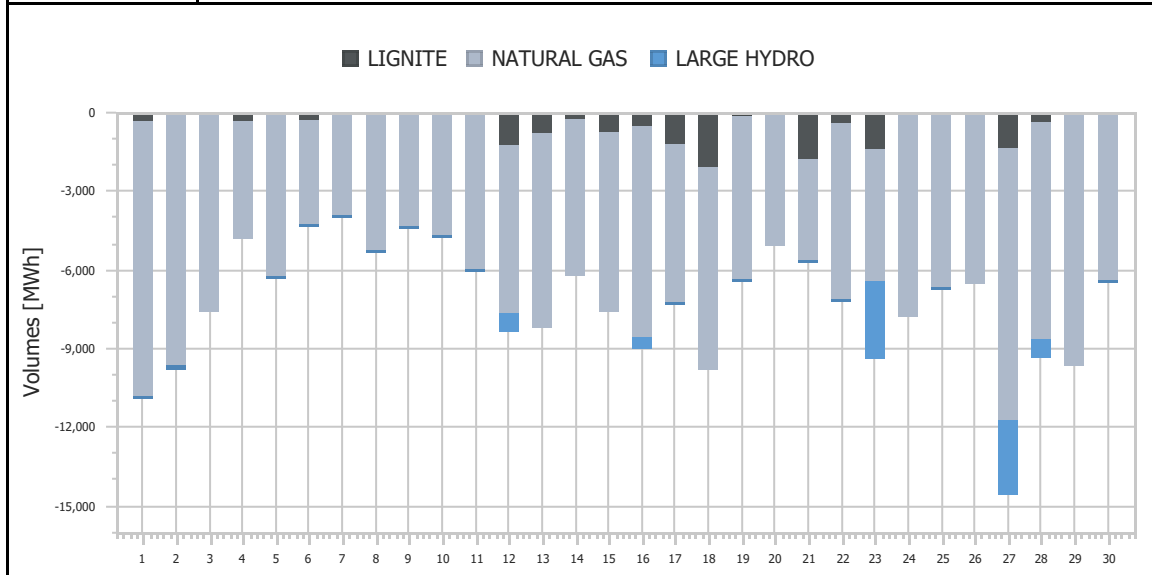
Ref No	Graph 3.4
Title	Clearing Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



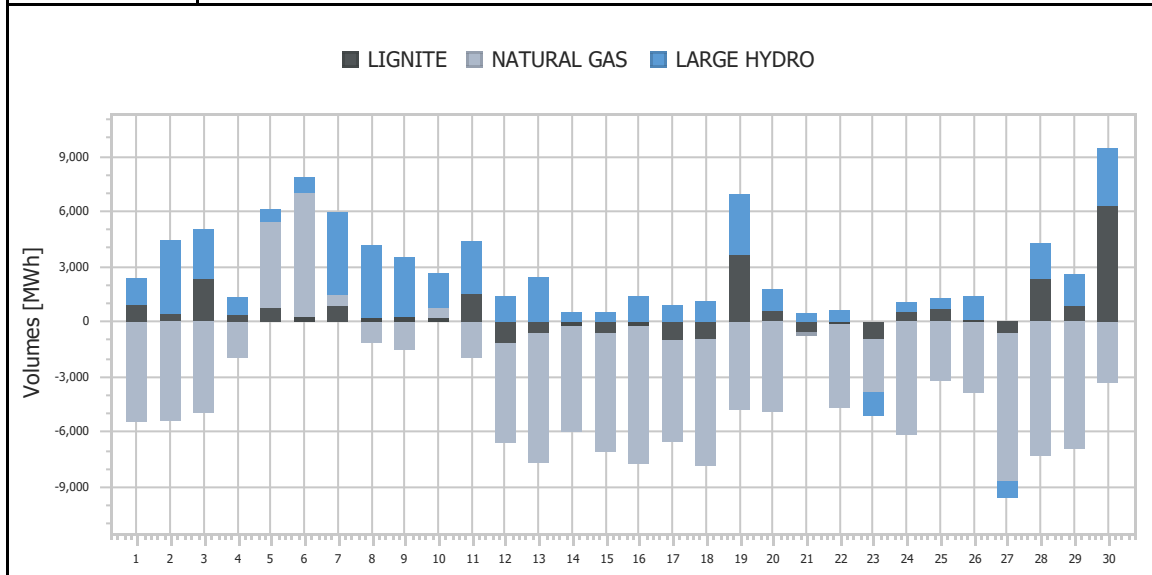
Ref No	Graph 3.5
Title	Upward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



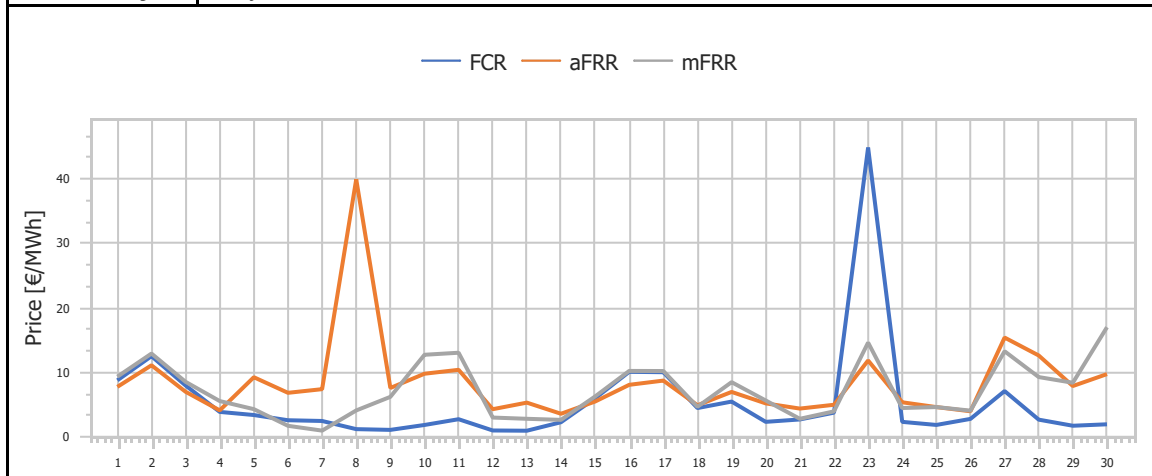
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Title	Downward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



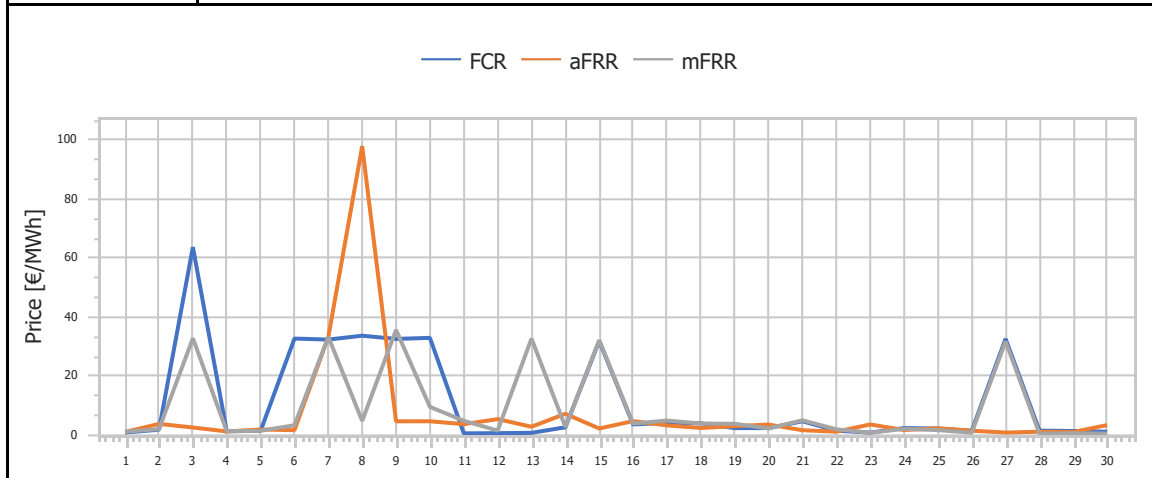
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Title	Net Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



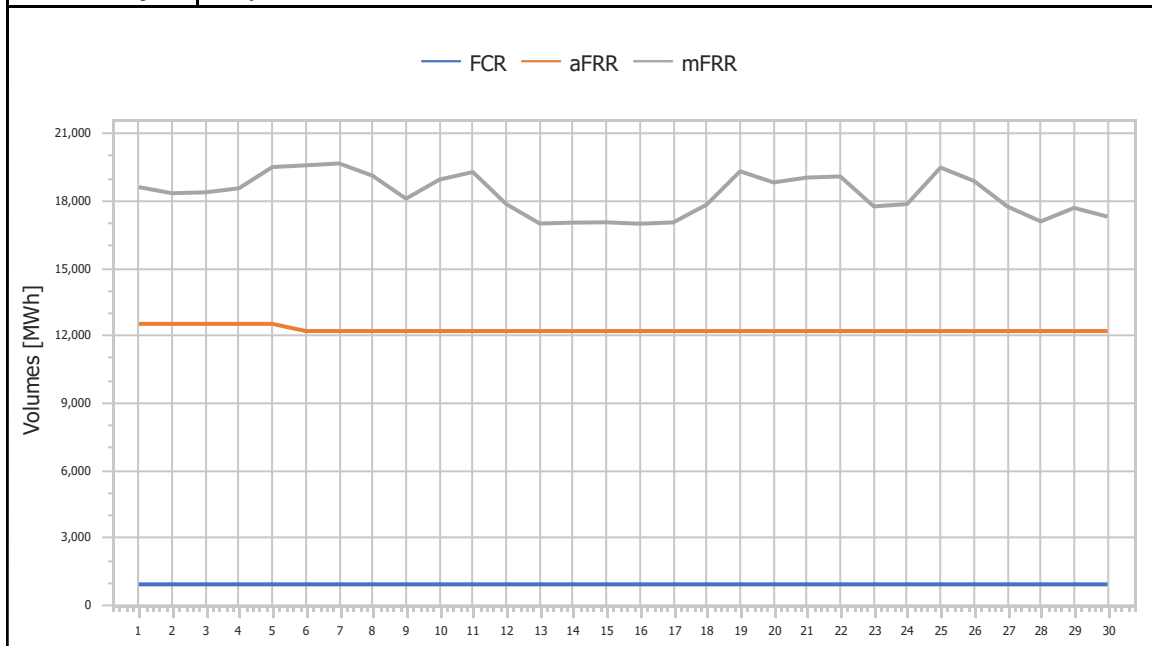
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Title	Upward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

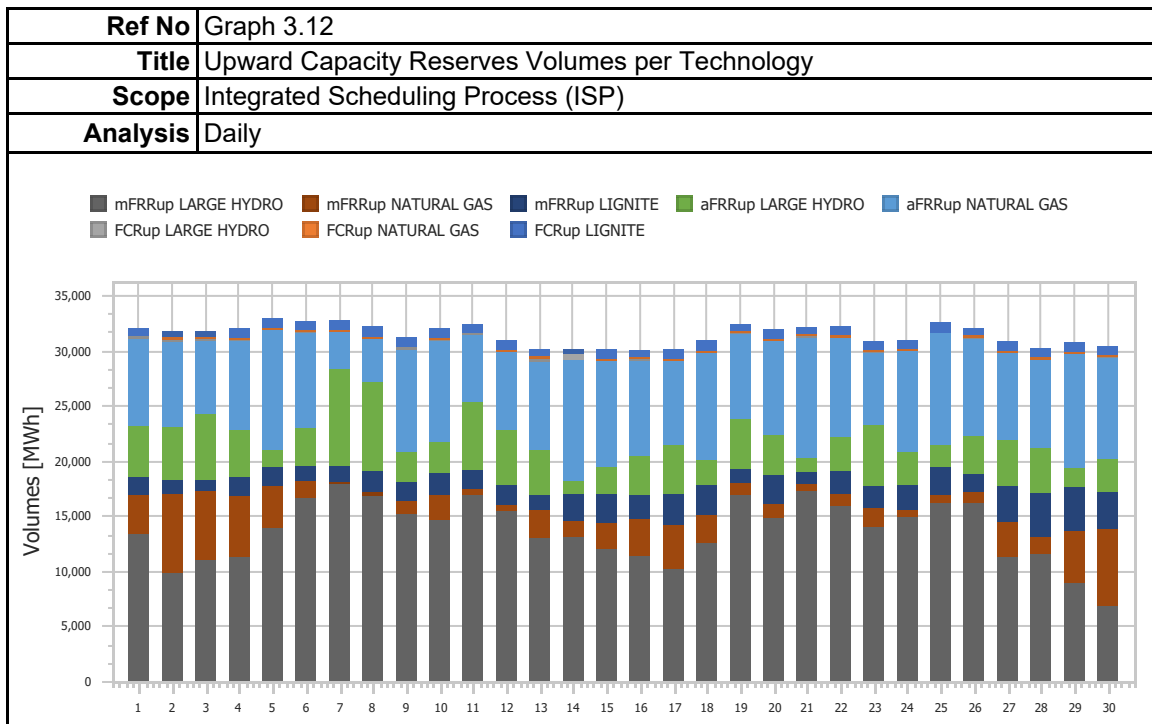
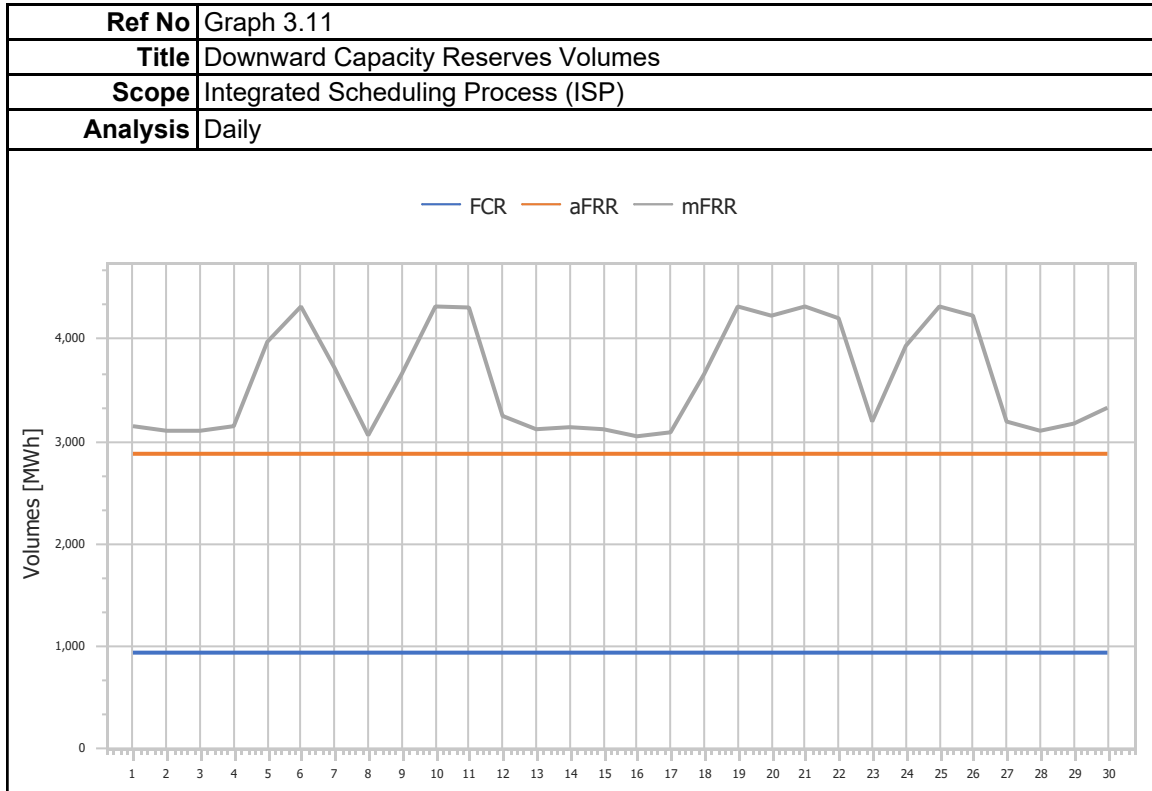


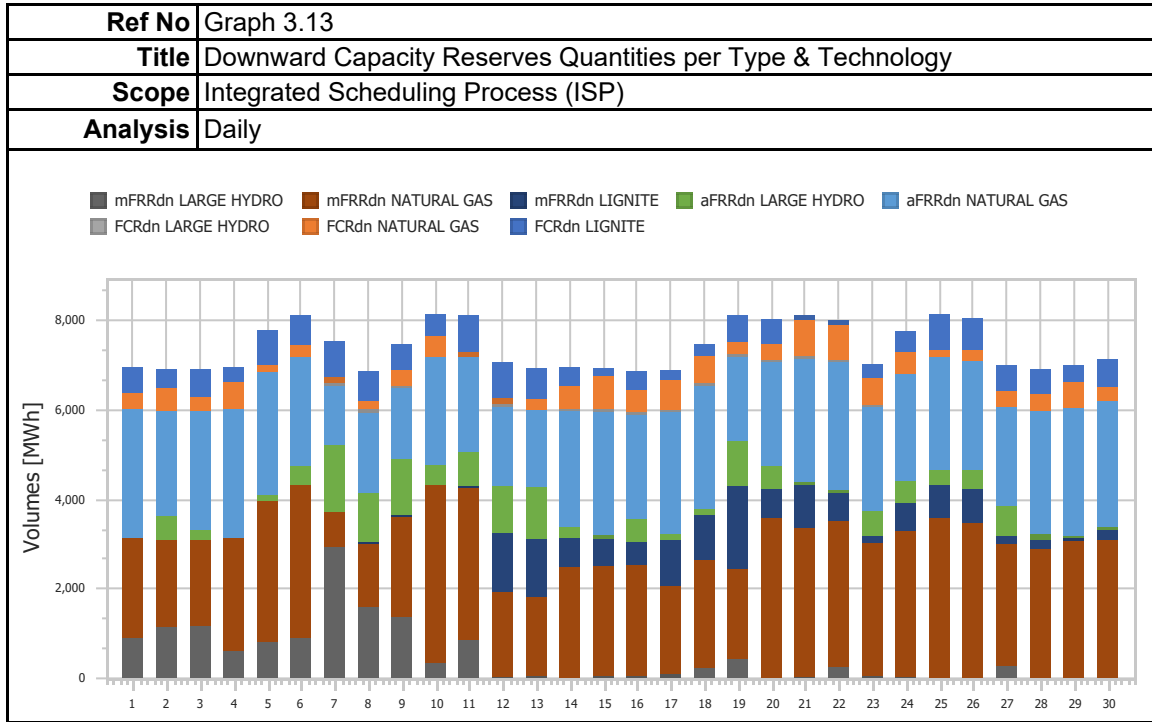
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Title	Downward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



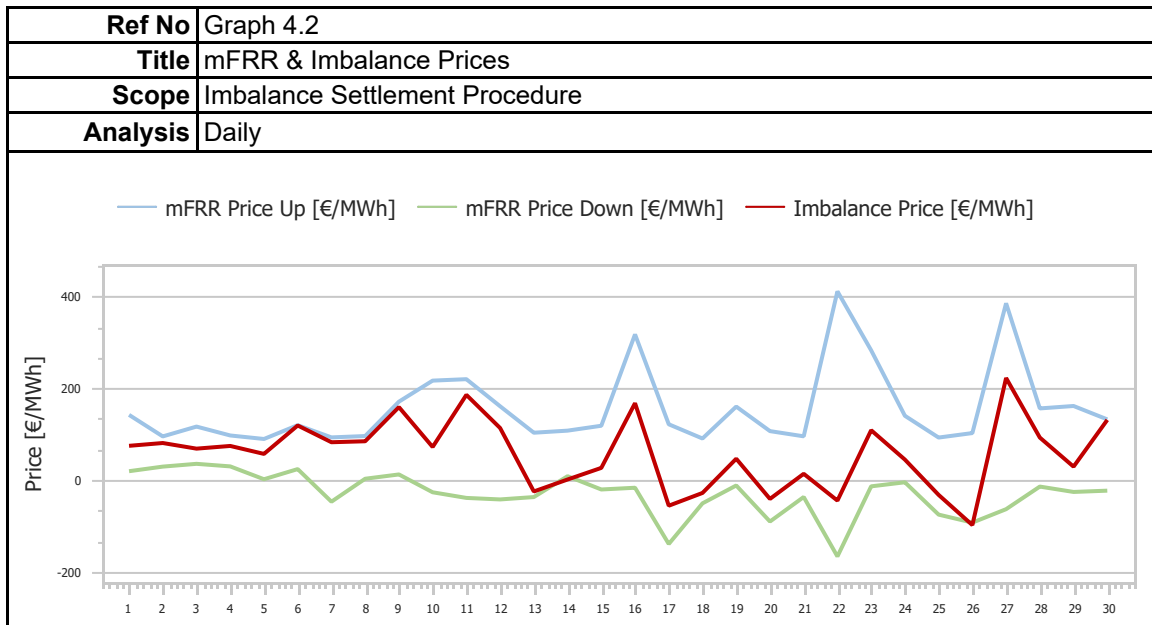
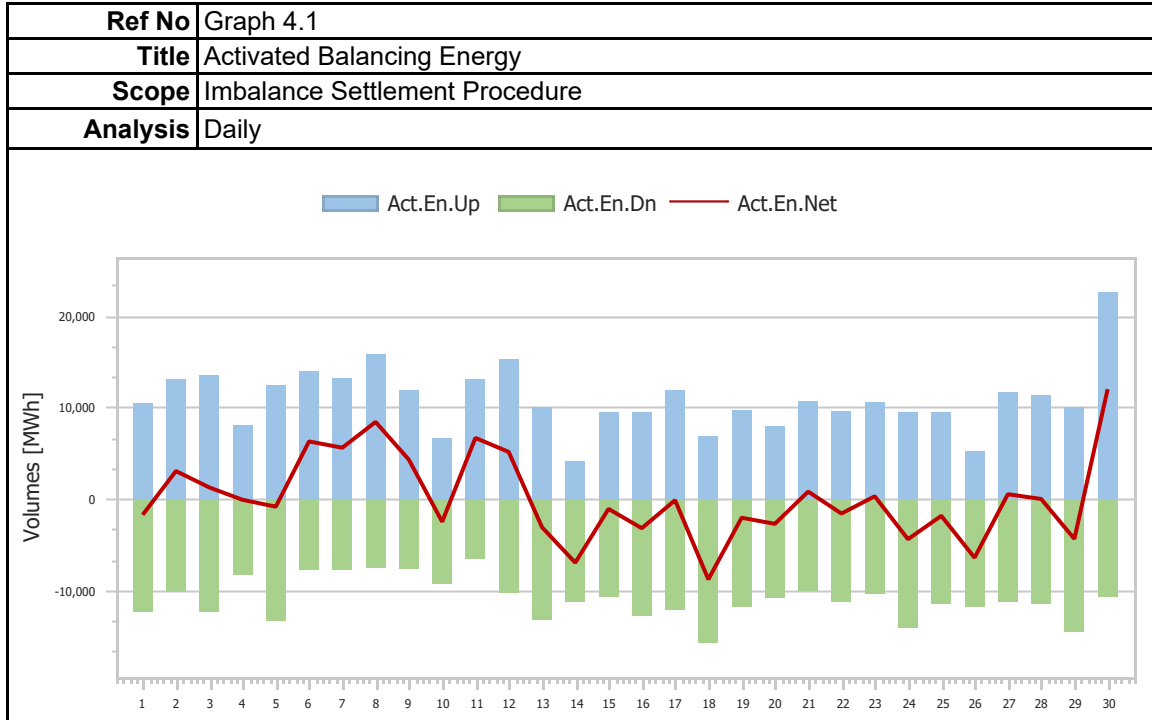
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Title	Upward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



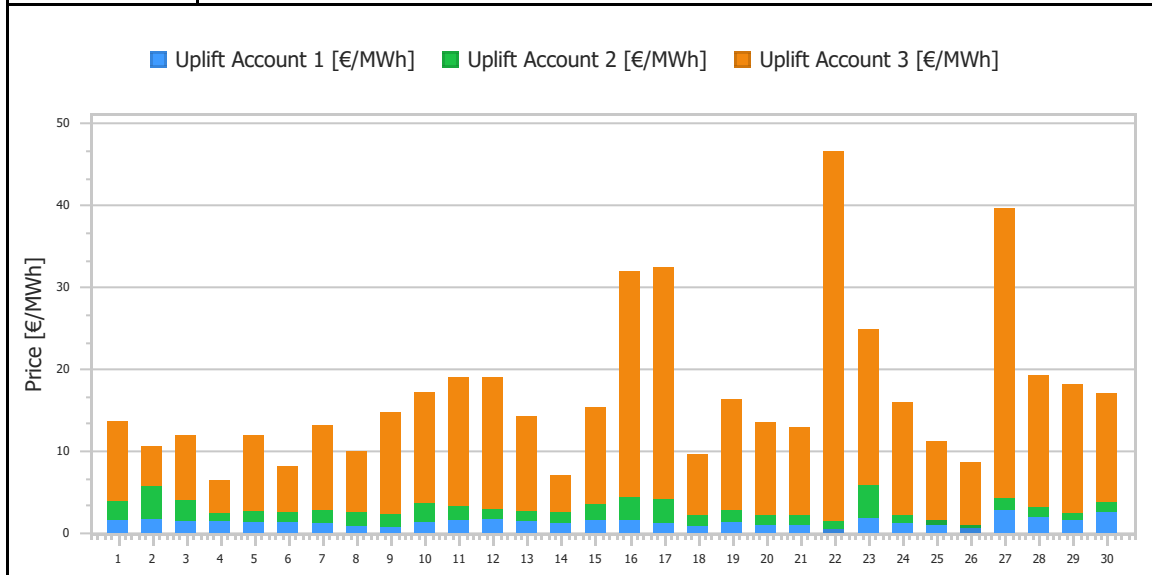




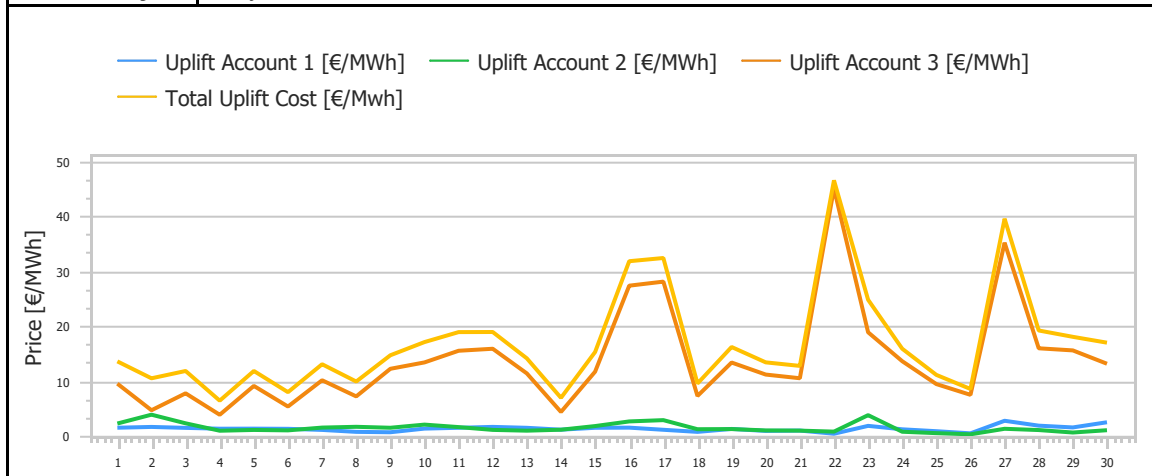
4. Imbalance Settlement Procedure



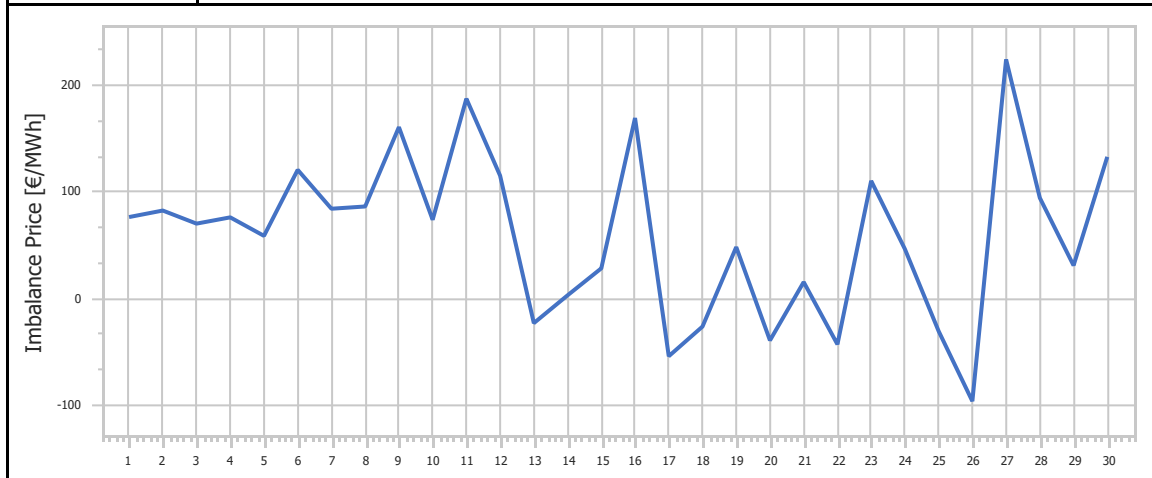
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



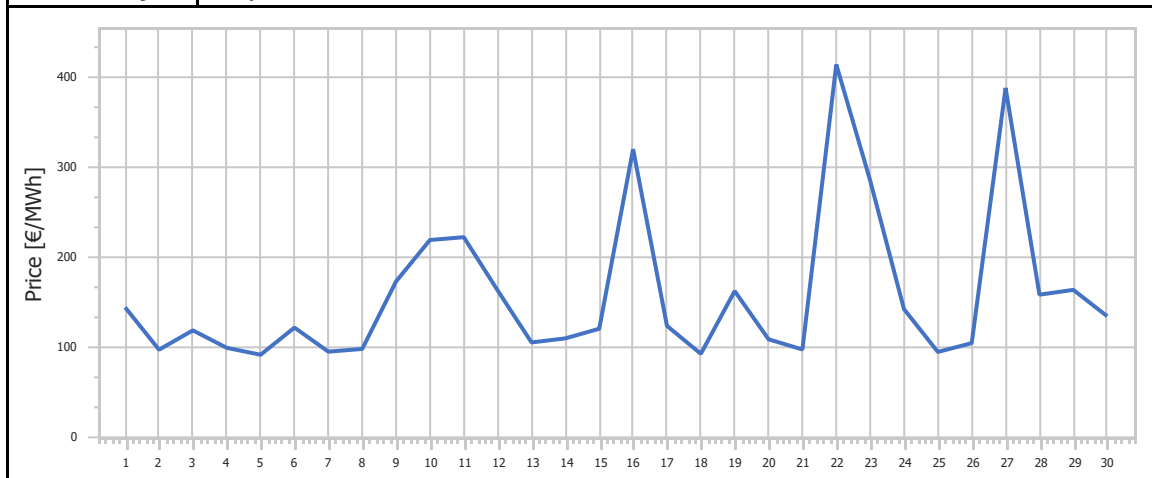
Ref No	Graph 4.4
Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



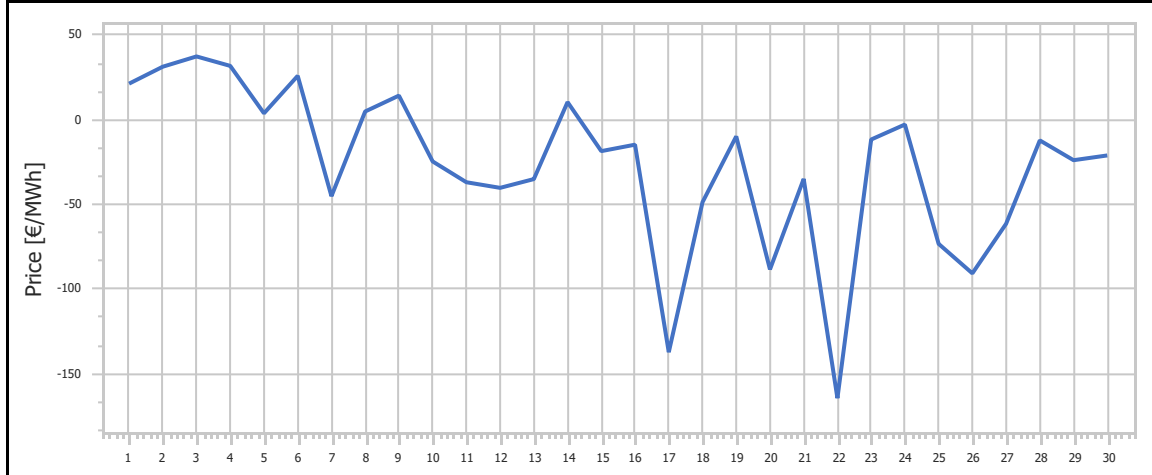
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Title	Imbalance Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



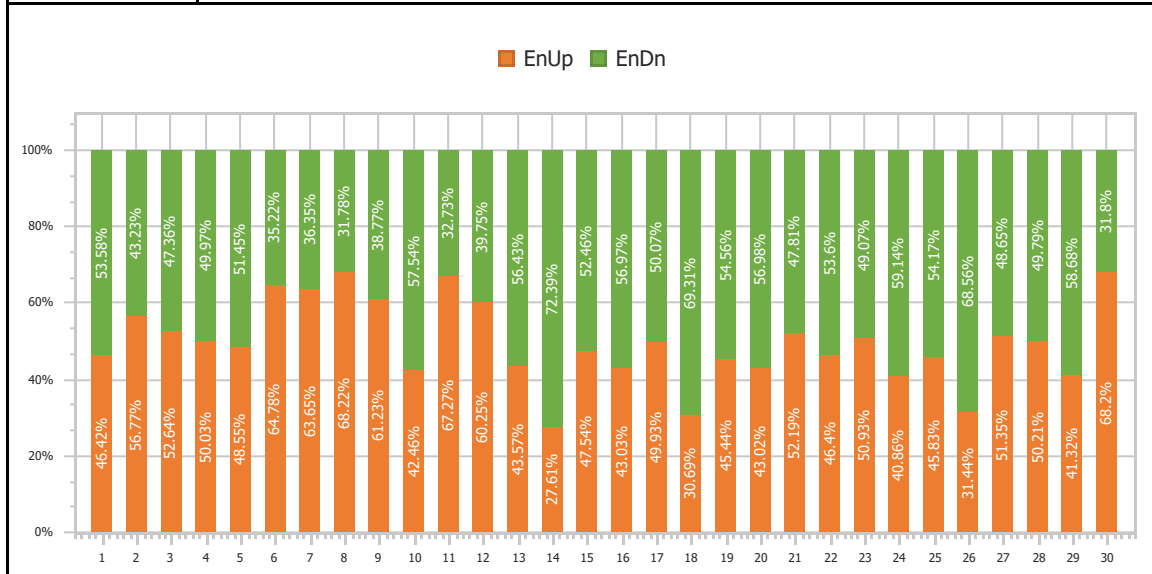
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Title	mFRR Up Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



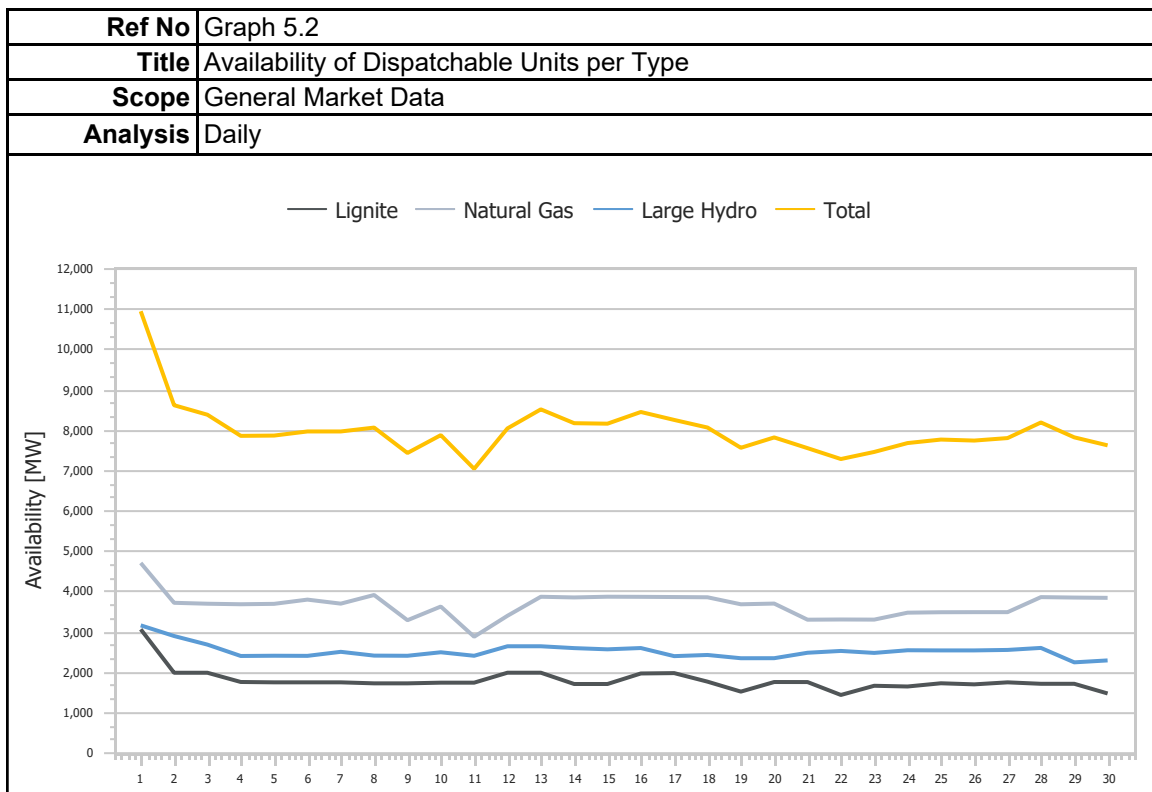
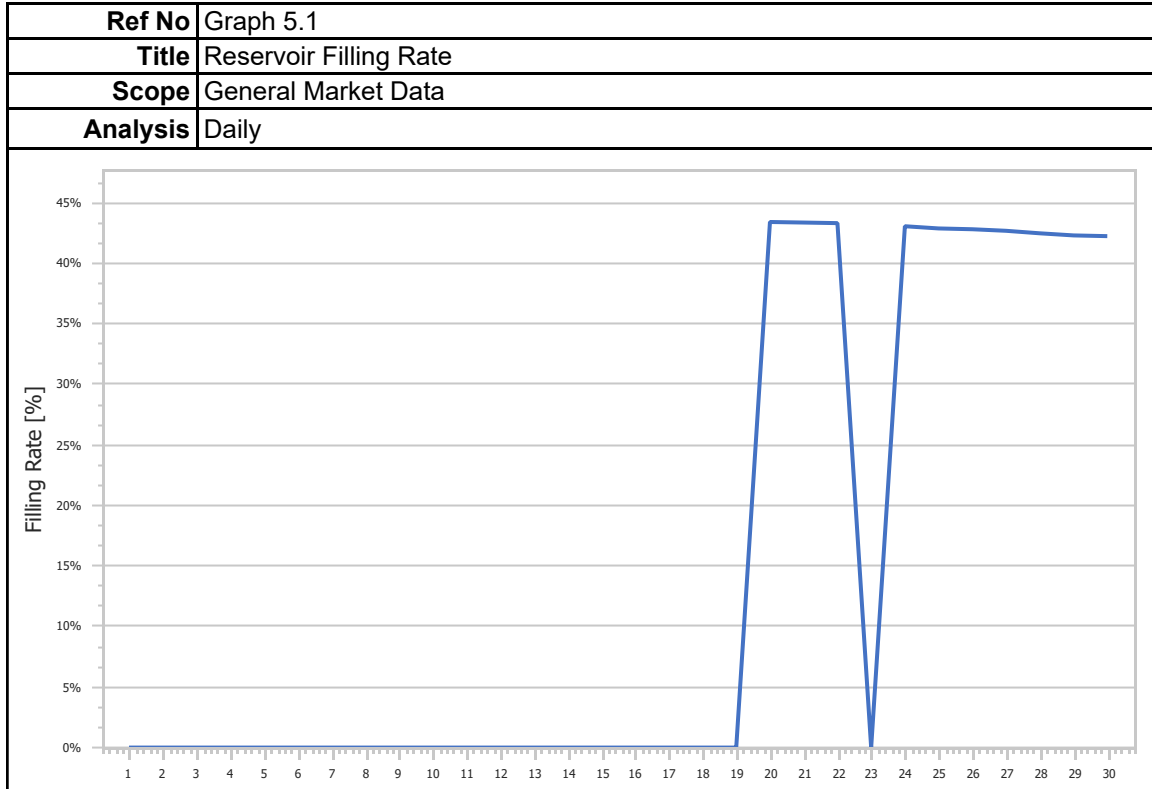
Ref No	Graph 4.7
Title	mFRR Down Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



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	525,586.180	12.60%	29,377,362.31€	12.97%
Crete Conventional	-	0.00%	- €	0.00%
Natural Gas	1,674,020.174	40.13%	95,107,077.96€	42.00%
Large Hydro	100,361.474	2.41%	6,779,249.00€	2.99%
RES	1,315,246.415	31.53%	64,421,025.20€	28.45%
Crete Renewables	-	0.00%	- €	0.00%
Imports	556,395.080	13.34%	30,768,536.55€	13.59%
Total	4,171,609.325	100.00%	226,453,251.02€	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	-	4,171,609.32	525,586.18	1,674,020.17	100,361.47	1,315,246.42	556,395.08
Average	52.66	139,053.64	17,519.54	55,800.67	3,345.38	43,841.55	18,546.50
Min	36.29	115,337.21	8,016.00	24,345.50	2,187.00	15,591.13	7,773.03
Min day	8	1	10	7	3	3	19
Max	72.01	163,611.59	28,893.32	72,947.10	8,899.40	76,396.04	29,990.62
Max day	27	25	28	13	23	6	4
Spread	35.72	48,274.37	20,877.32	48,601.59	6,712.40	60,804.91	22,217.59
Standard Deviation	9.30	12,475.09	5,672.10	13,327.29	1,295.51	19,598.44	5,778.85

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	92,697.500	2.22%	5,004,266.16€	2.21%
Crete Load	-	0.00%	- €	0.00%
HV Load	673,542.974	16.15%	35,088,954.89€	15.50%
MV Load	797,349.556	19.11%	43,255,721.13€	19.10%
LV Load	2,391,792.242	57.34%	132,684,603.72€	58.59%
PUMP	11,175.000	0.27%	389,889.20€	0.17%
Exports	205,052.050	4.92%	10,029,815.87€	4.43%
Total	4,171,609.324	100.00%	226,453,250.97€	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	-	4,171,609.32	92,697.50	673,542.97	797,349.56	2,391,792.24	11,175.00	205,052.05
Average	52.66	139,053.64	3,089.92	22,451.43	26,578.32	79,726.41	698.44	6,835.07
Min	36.29	115,337.21	2,861.50	21,562.62	19,955.64	67,083.12	110.00	20.96
Min day	8	1	1	3	8	8	9	1
Max	72.01	163,611.59	3,322.00	24,049.76	29,808.97	93,062.28	1,300.00	15,673.88
Max day	27	25	30	14	25	25	5	25
Spread	35.72	48,274.37	460.50	2,487.14	9,853.32	25,979.16	1,190.00	15,652.92
Standard Deviation	9.30	12,475.09	123.88	890.66	3,263.68	8,090.83	296.40	4,110.57

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	1,419,596.920	53.62%	2,854,766.13€	51.56%
FCR	94,112.020	3.55%	196,182.48€	3.54%
mFRR	1,133,872.320	42.83%	2,485,893.04€	44.90%
Total	2,647,581.260	100.00%	5,536,841.66€	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	334,147.300	39.38%	327,626.05€	34.70%
FCR	106,109.940	12.51%	187,949.57€	19.91%
mFRR	408,248.700	48.11%	428,561.08€	45.39%
Total	848,505.930	100.00%	944,136.70€	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	26,489.220	8.02%	5,084,727.74€	8.98%
mFRR	303,938.060	91.98%	51,559,860.06€	91.02%
Total	330,427.280	100.00%	56,644,587.79€	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	135,630.000	41.74%	-5,834,011.35€	39.70%
mFRR	189,316.380	58.26%	-8,860,116.67€	60.30%
Total	324,946.390	100.00%	-14,694,128.02€	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	4,171,609.32	97.94%
IDMA1	49,949.18	1.17%
IDMA2	20,325.05	0.48%
IDMA3	12,150.82	0.29%
IDM (Total)	82,425.06	1.94%
Balancing Energy (Up)	330,427.28	7.76%
Balancing Energy (Dn)	324,946.39	7.63%
Balancing Energy (Total)	5,480.89	0.13%
Total	4,259,515.27	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	226,453,251.02€	73.25%
IDMA1	2,911,441.91€	0.94%
IDMA2	1,134,813.41€	0.37%
IDMA3	841,349.99€	0.27%
IDM (Total)	4,887,605.31€	1.58%
Balancing Capacity (Up)	5,536,841.66€	1.79%
Balancing Capacity (Dn)	944,136.70€	0.31%
Balancing Capacity (Total)	6,480,978.35€	2.10%
Balancing Energy (Up)	56,644,587.79€	18.32%
Balancing Energy (Dn)	-14,694,128.02€	-4.75%
Balancing Energy (Total)	71,338,715.81€	23.07%
Balancing Market (Total)	77,819,694.16€	25.17%
Total	309,160,550.49€	100.00%