

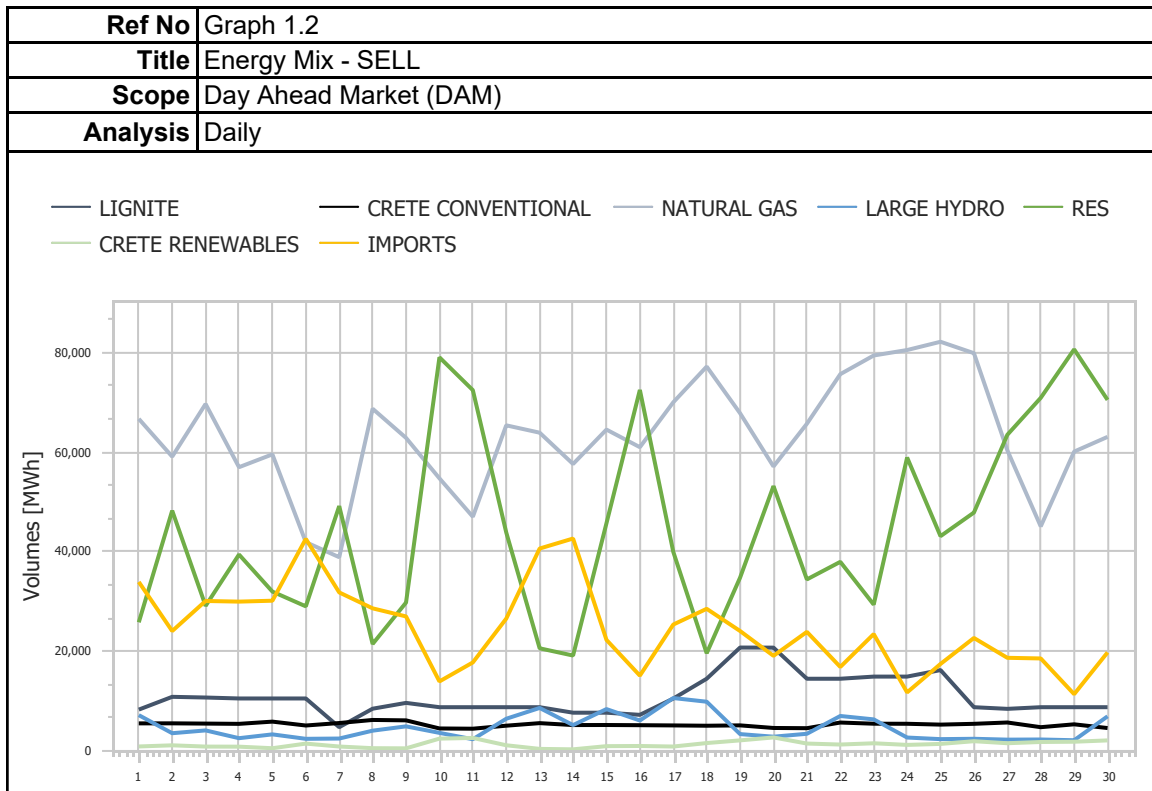
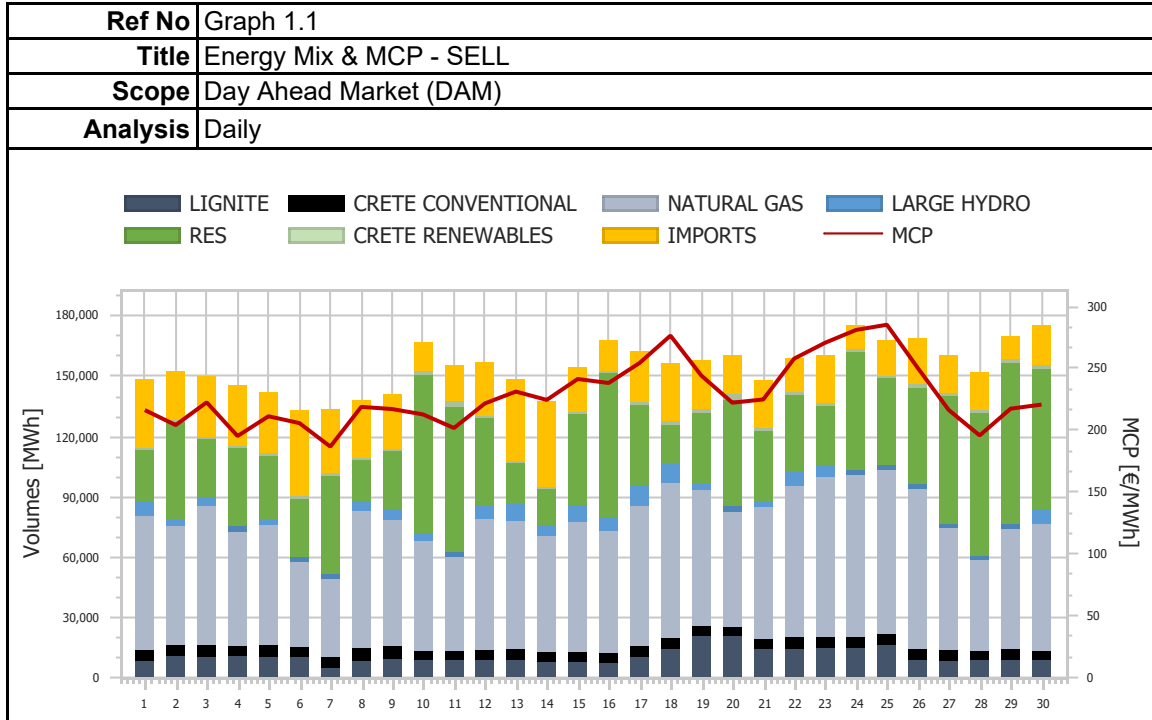
Market Monitoring Report

Monthly - Public - 2

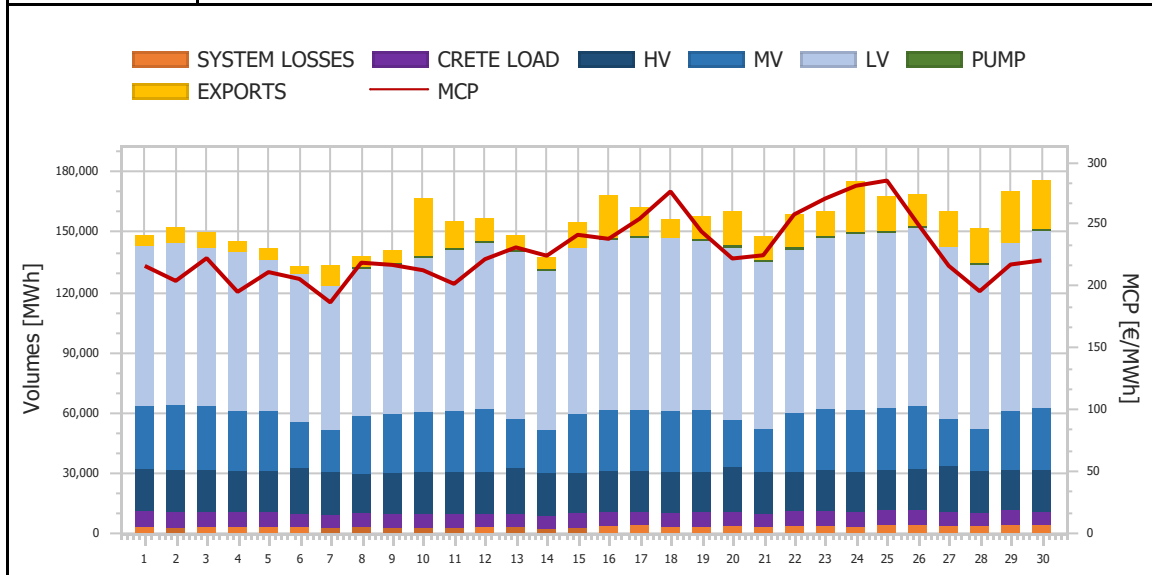
11-2021



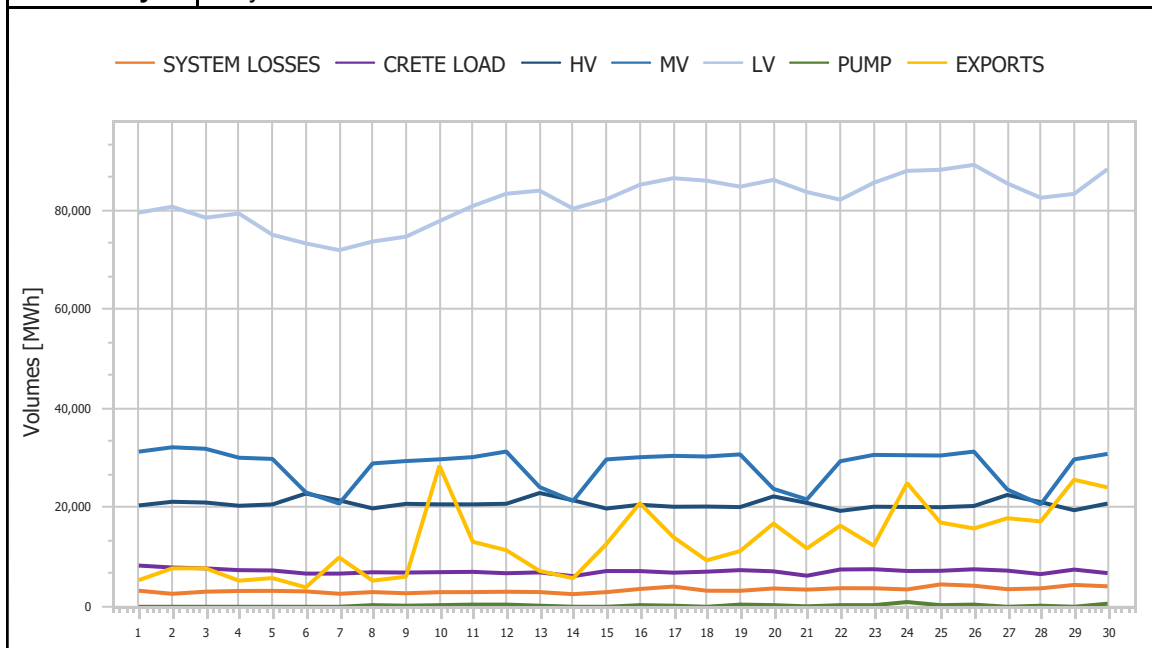
1. Day Ahead Market (DAM)



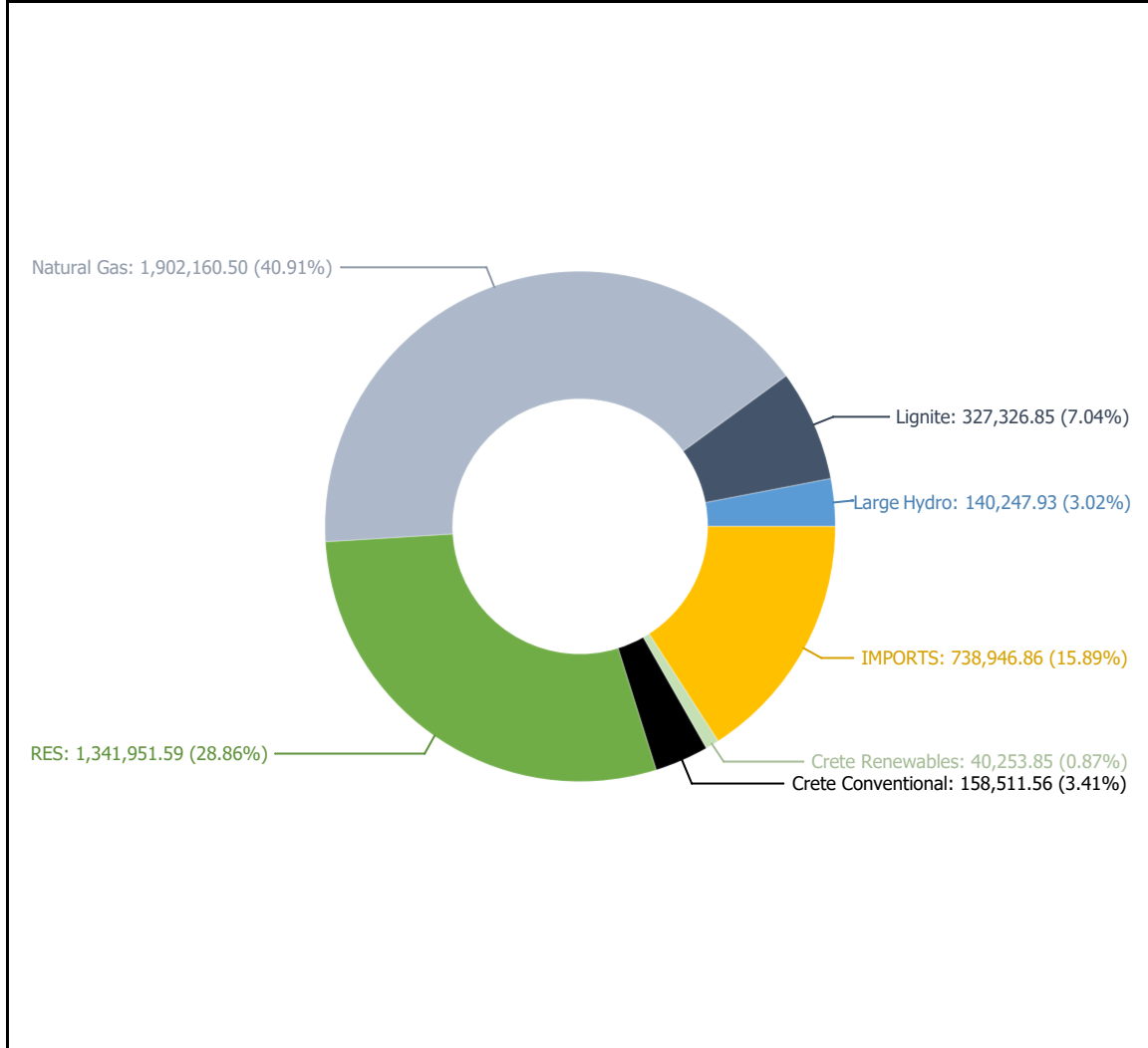
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Title	Energy Mix & MCP - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily



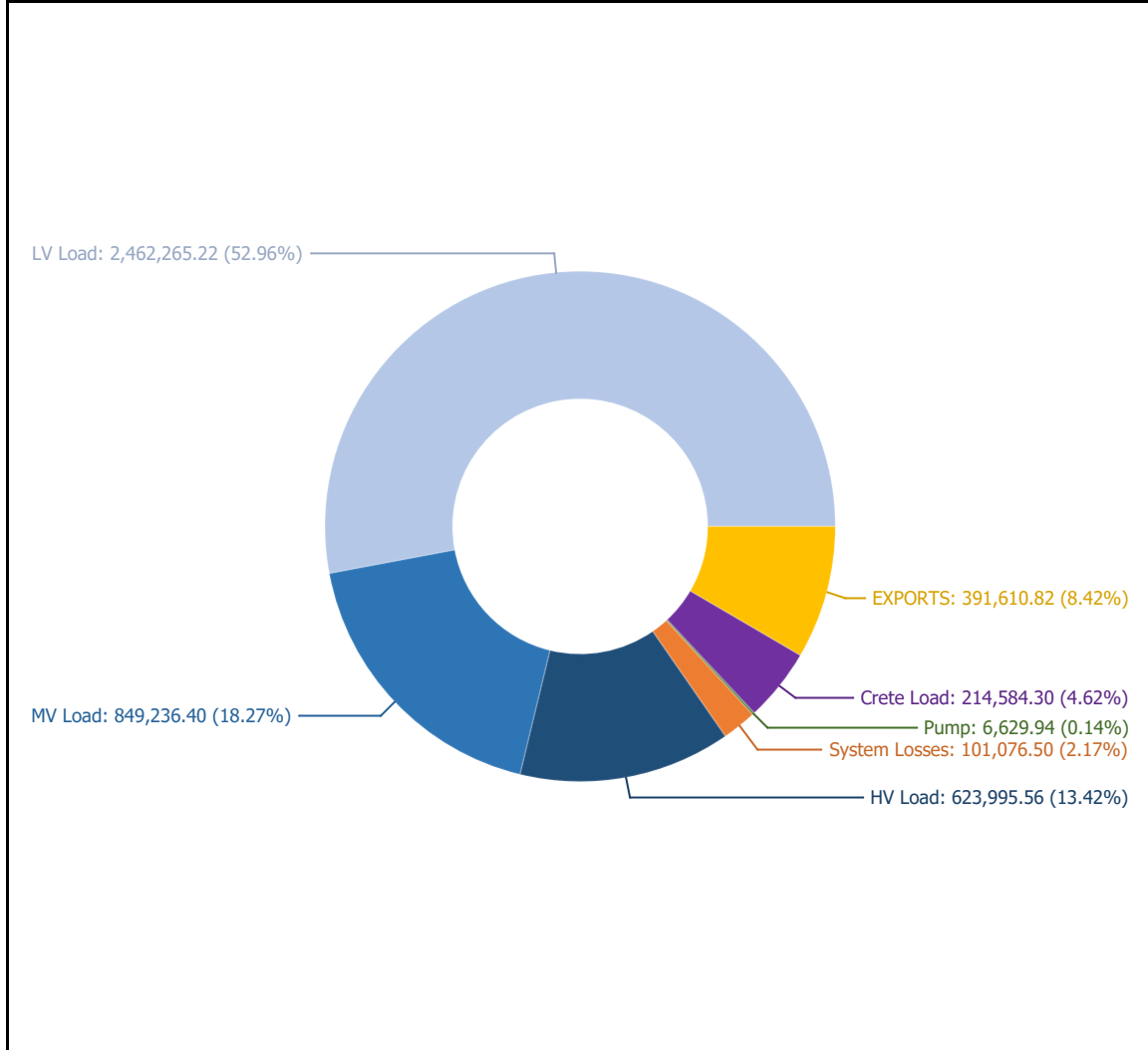
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Scope	Day Ahead Market (DAM)
Analysis	Daily

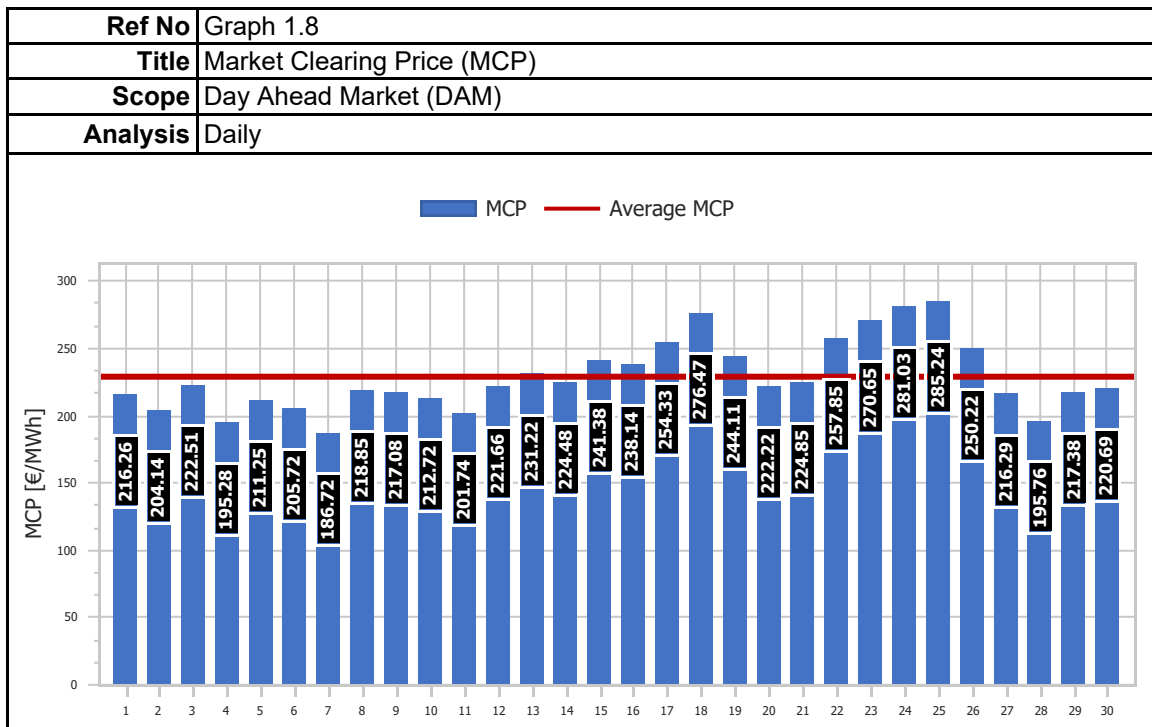
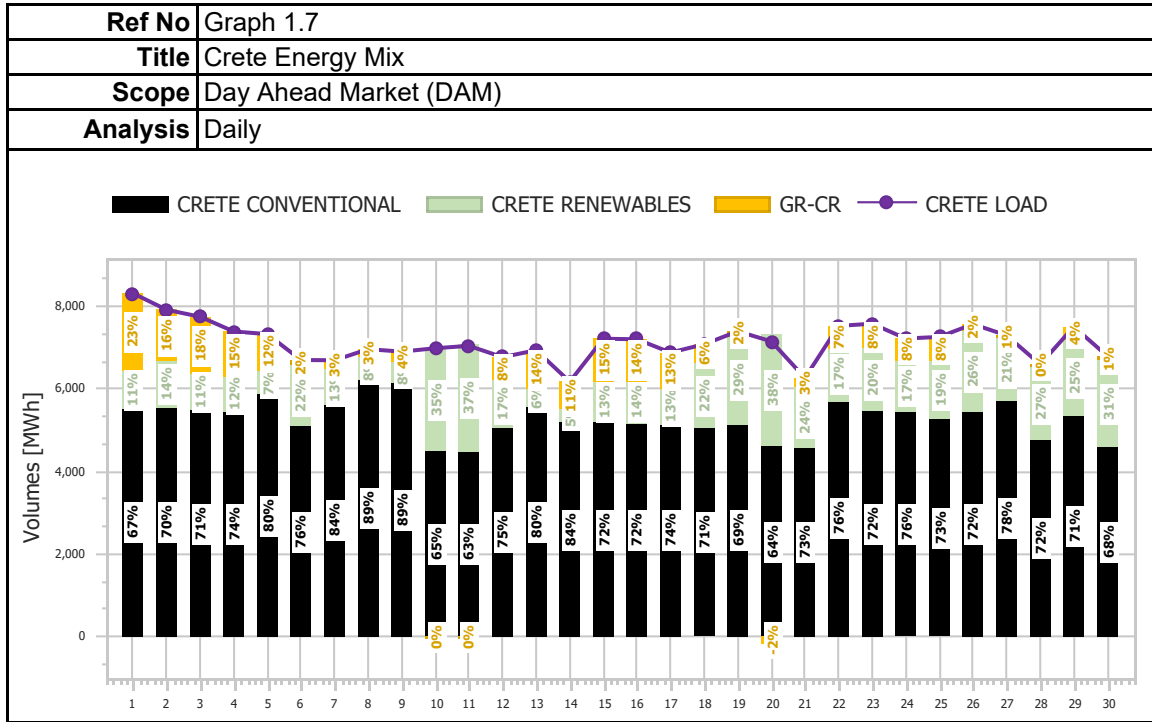


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Scope	Day Ahead Market (DAM)
Analysis	Daily

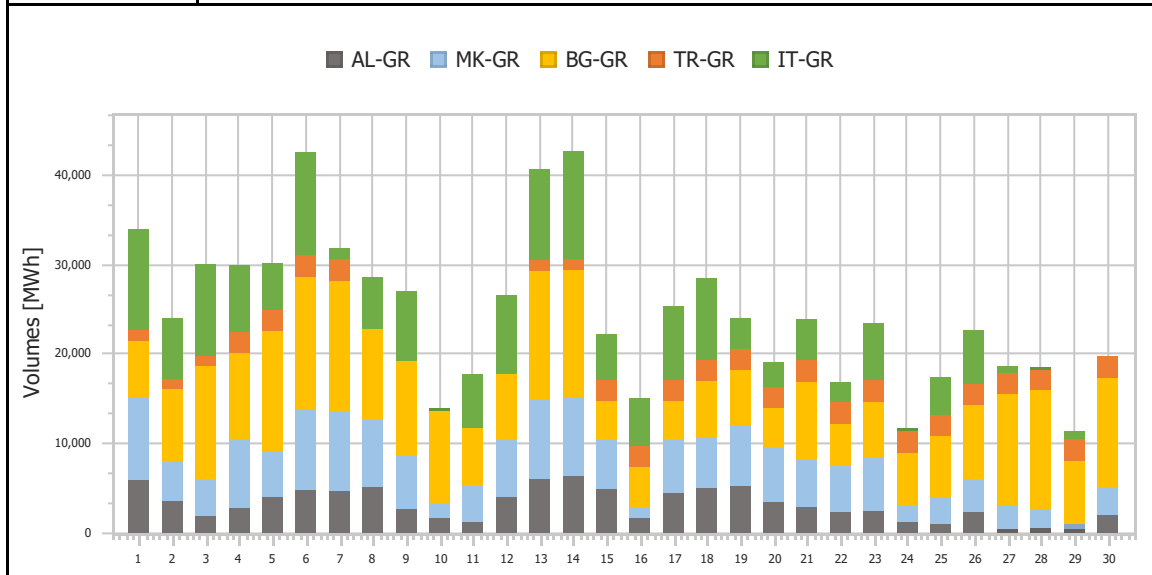


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Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily

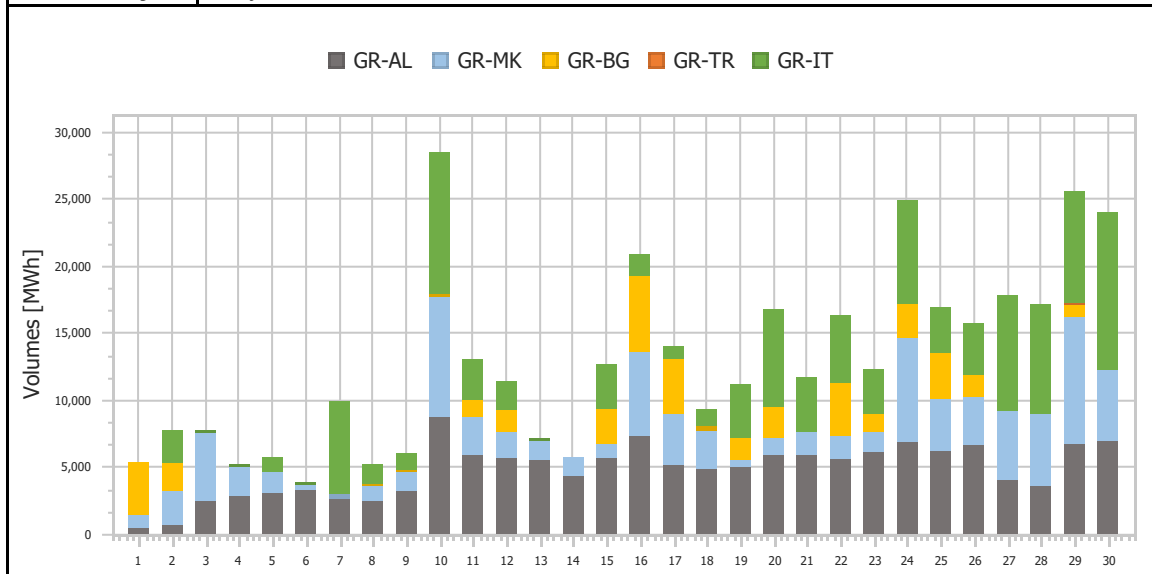




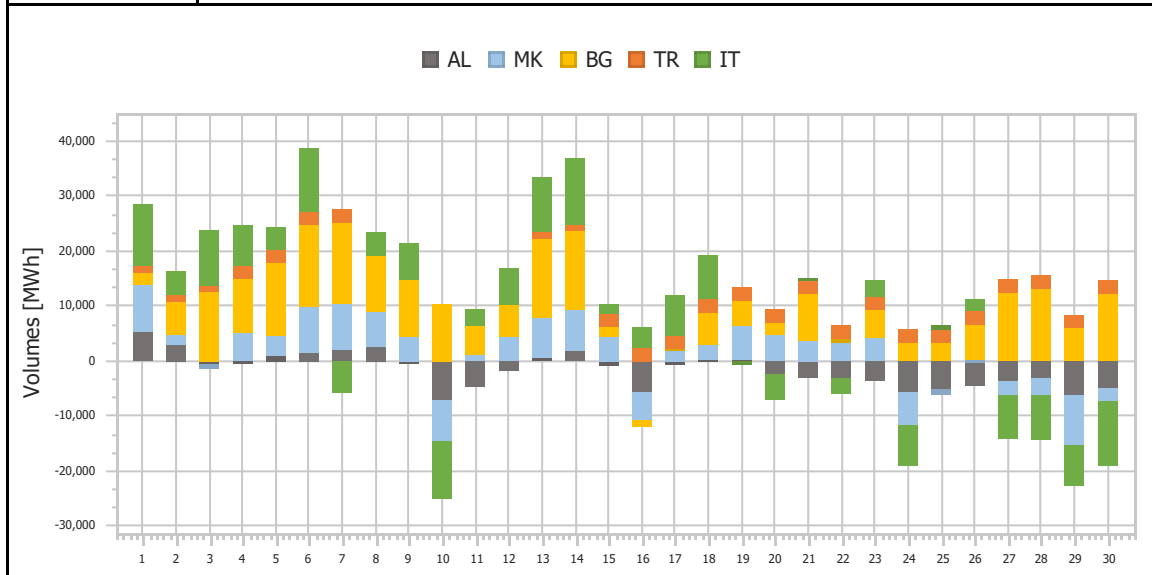
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Title	Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



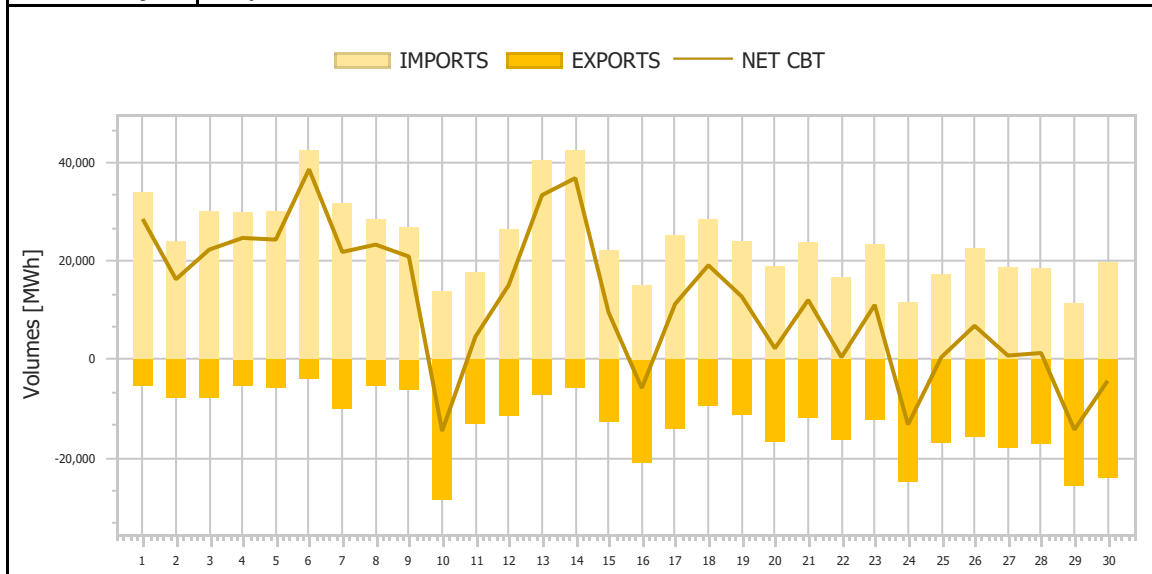
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Scope	Day Ahead Market (DAM)
Analysis	Daily



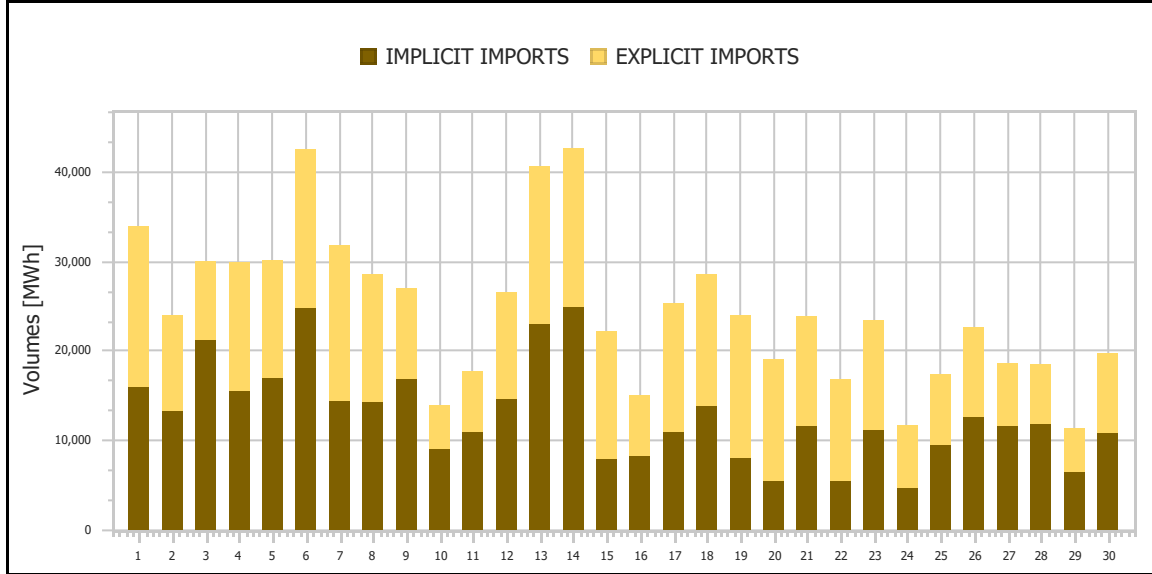
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Title	Net Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



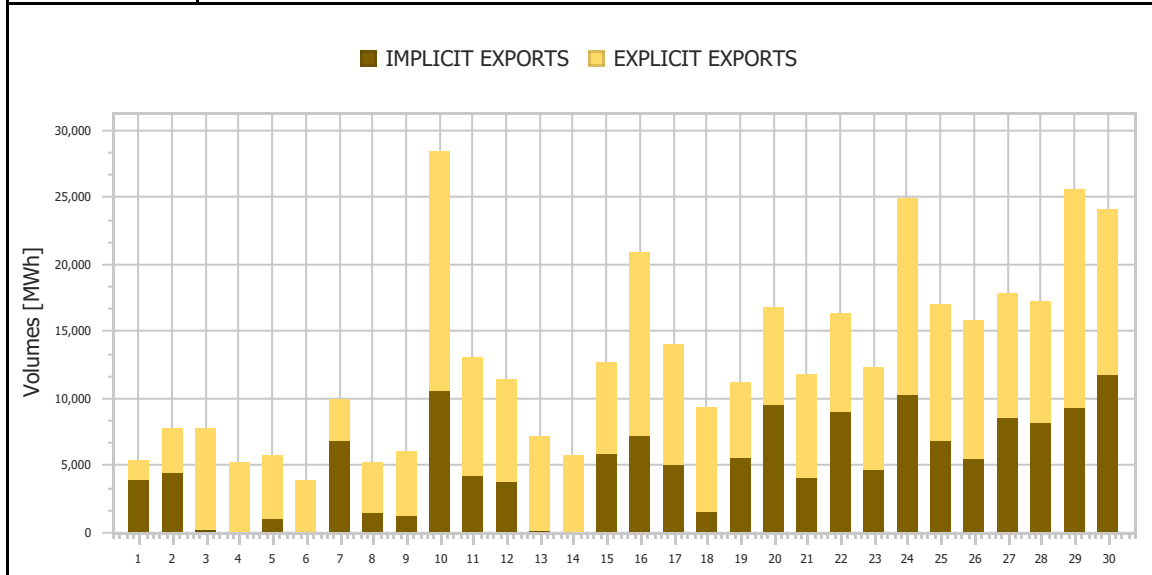
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Title	Total Imports & Exports
Scope	Day Ahead Market (DAM)
Analysis	Daily



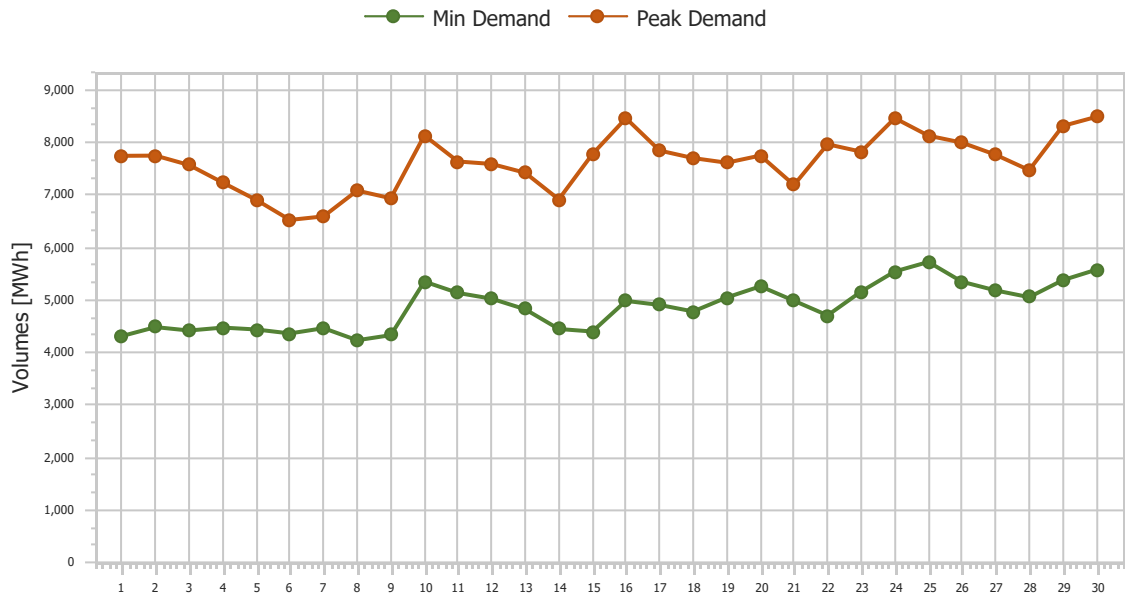
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Title	Imports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Daily



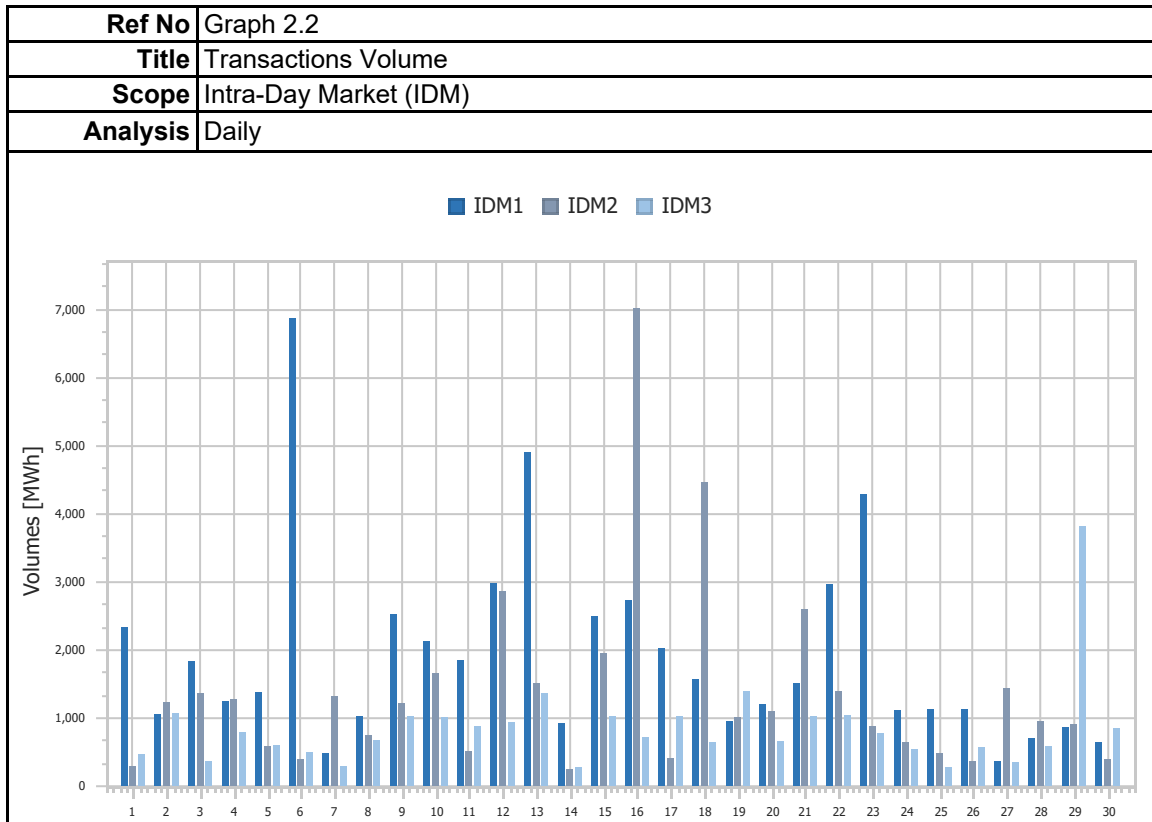
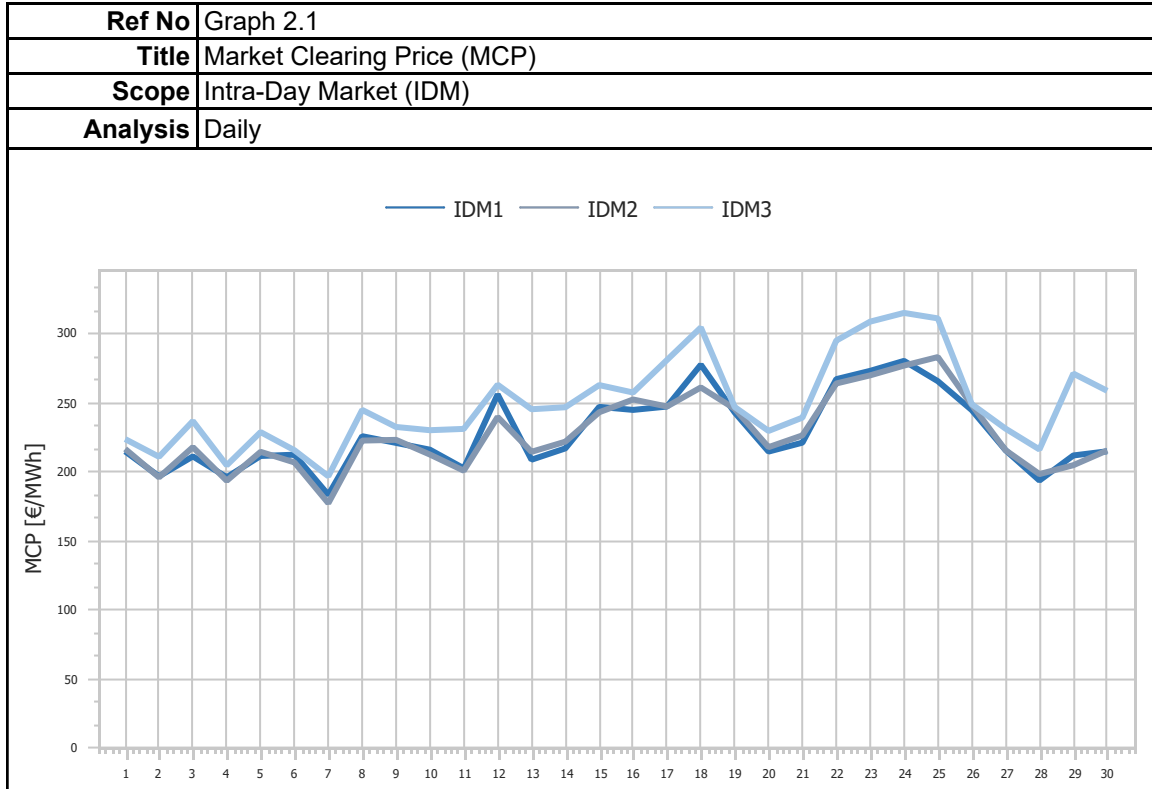
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Scope	Day Ahead Market (DAM)
Analysis	Monthly

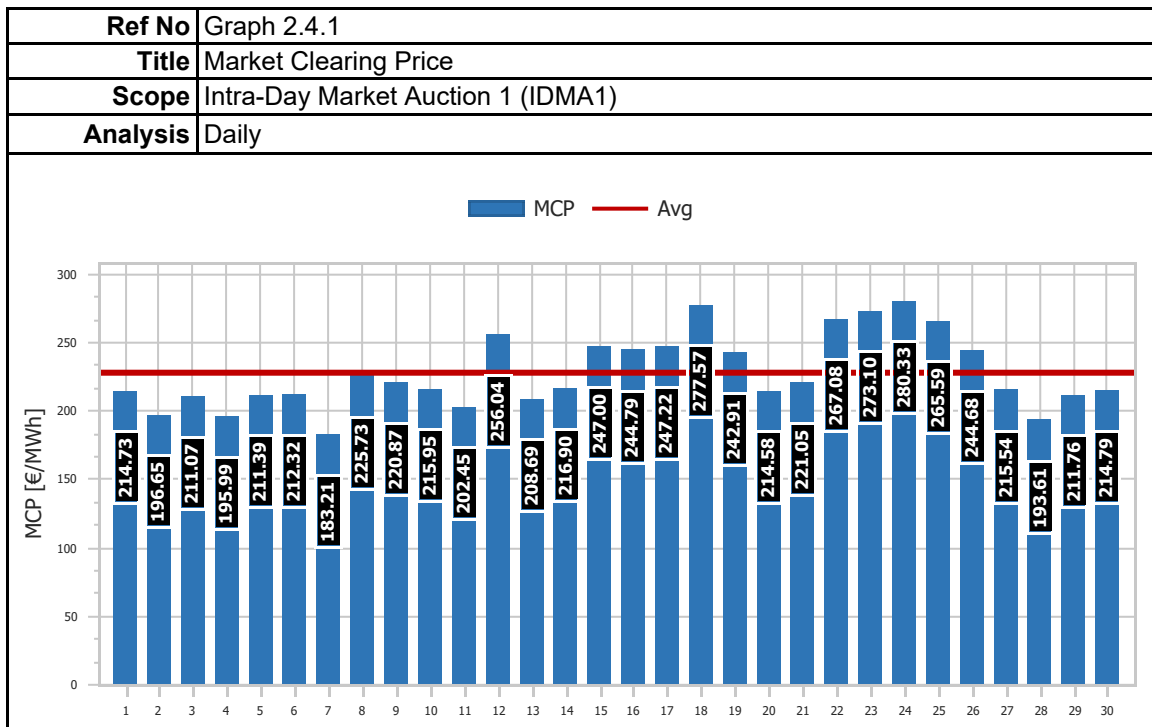
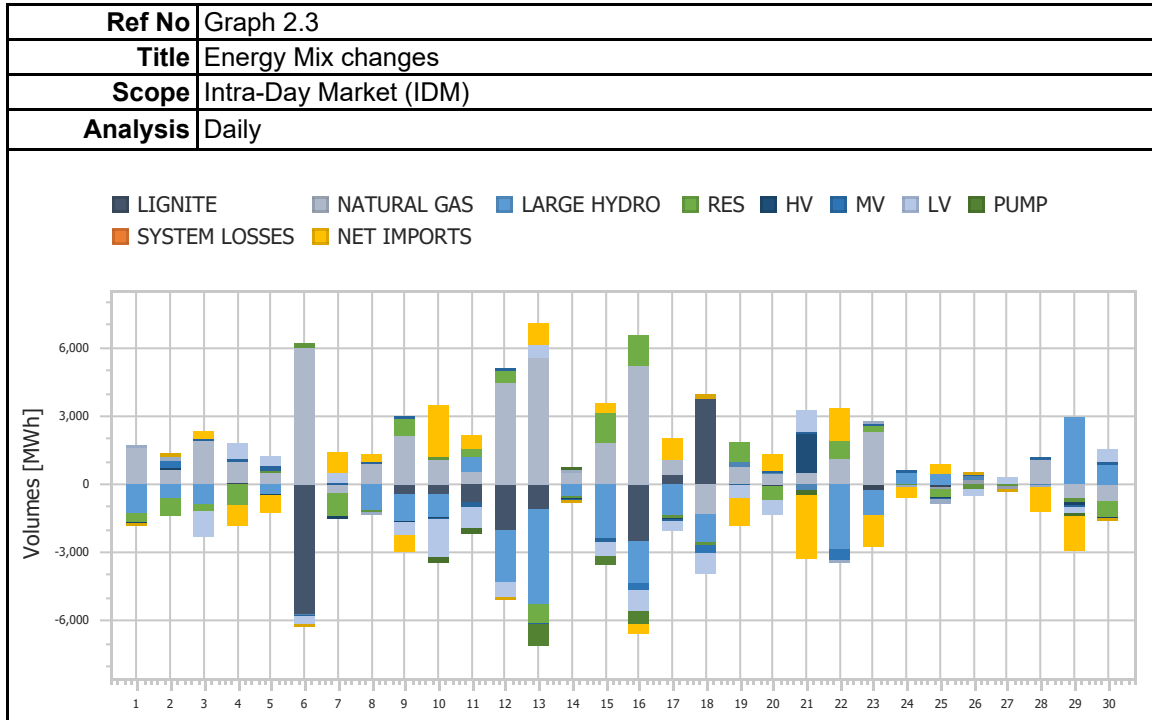


Ref No	Graph 1.15
Title	Min & Peak Demand
Scope	Day Ahead Market (DAM)
Analysis	Daily

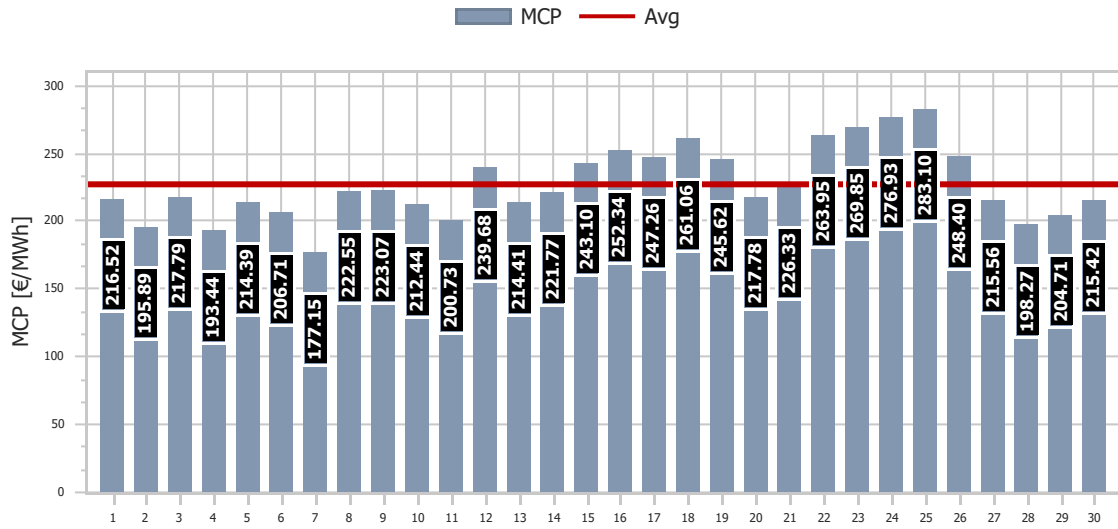


2. Intra-Day Market (IDM)

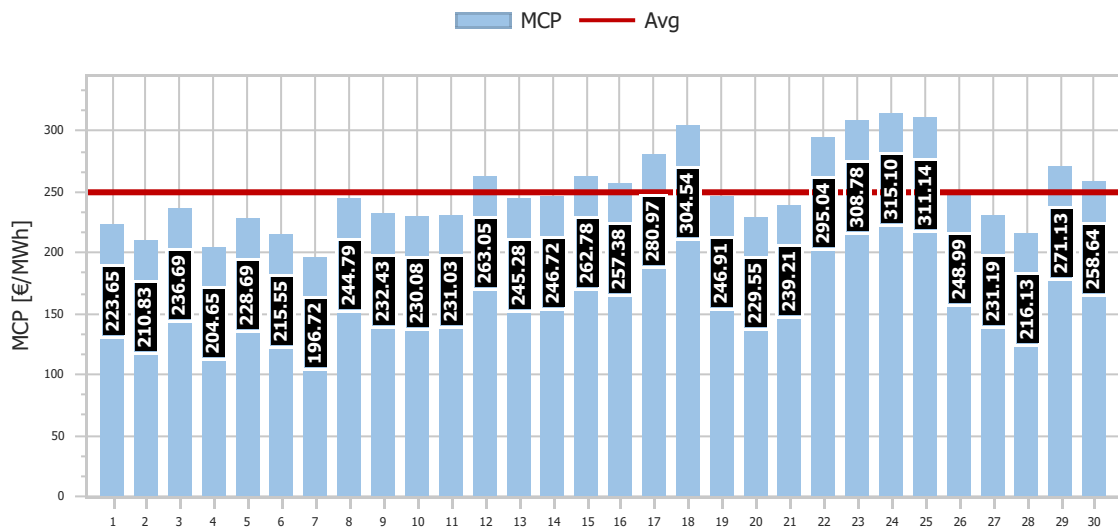


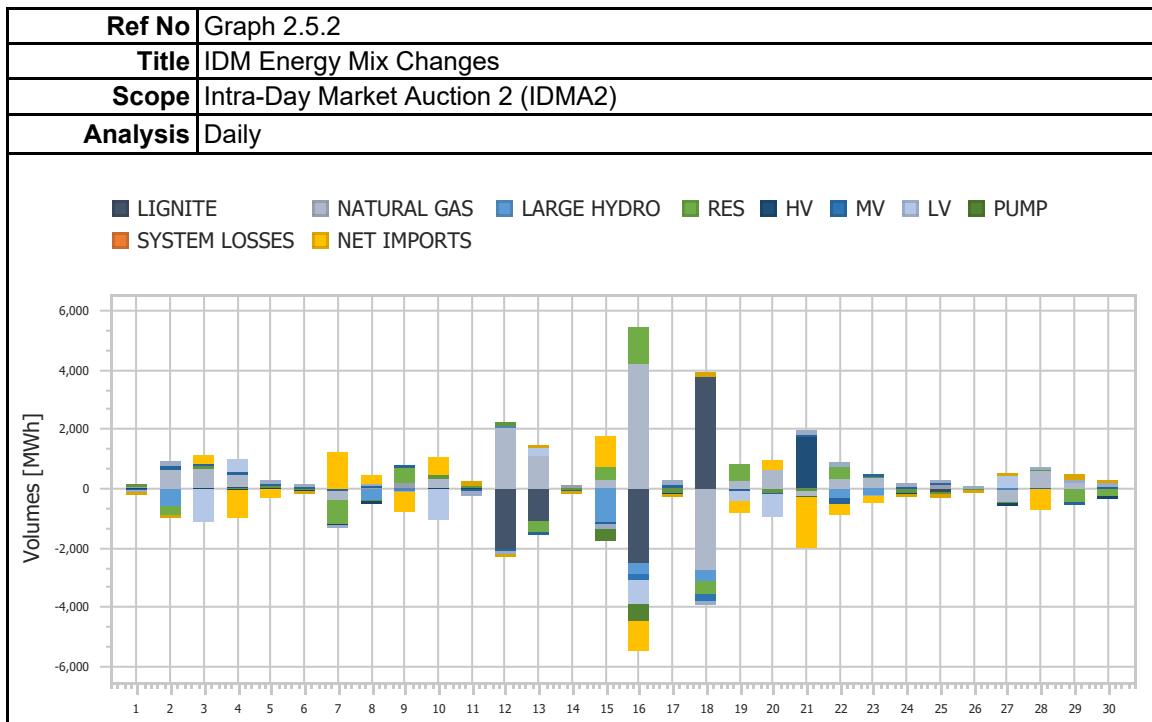
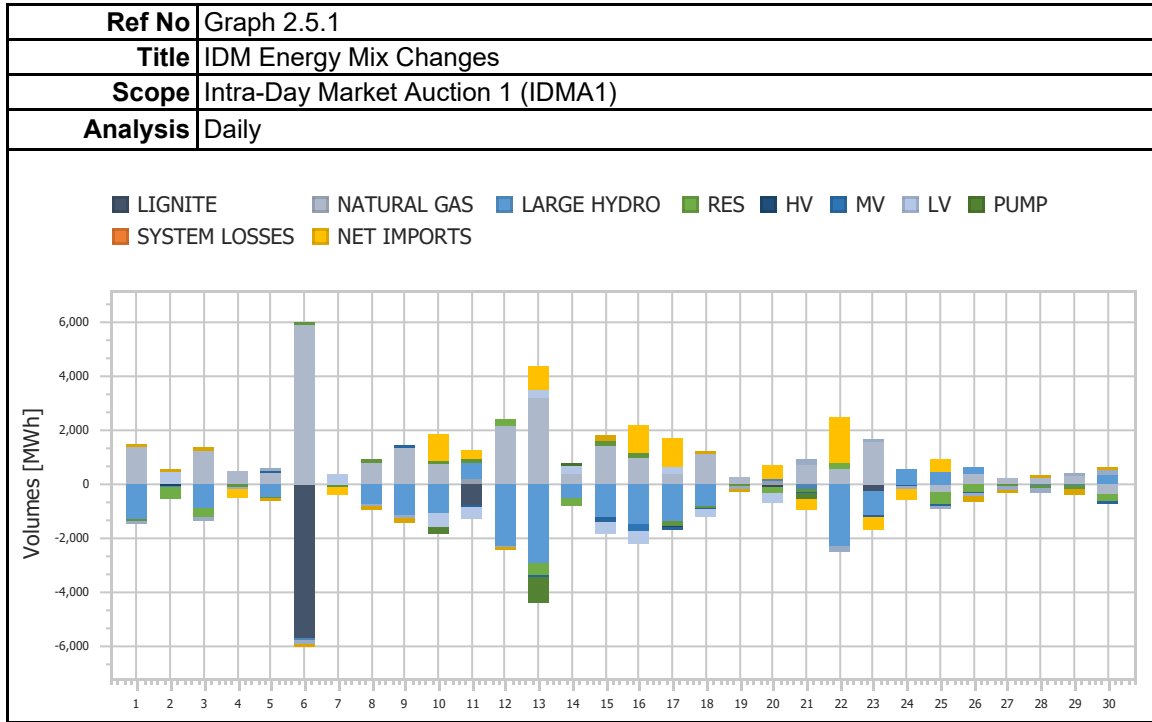


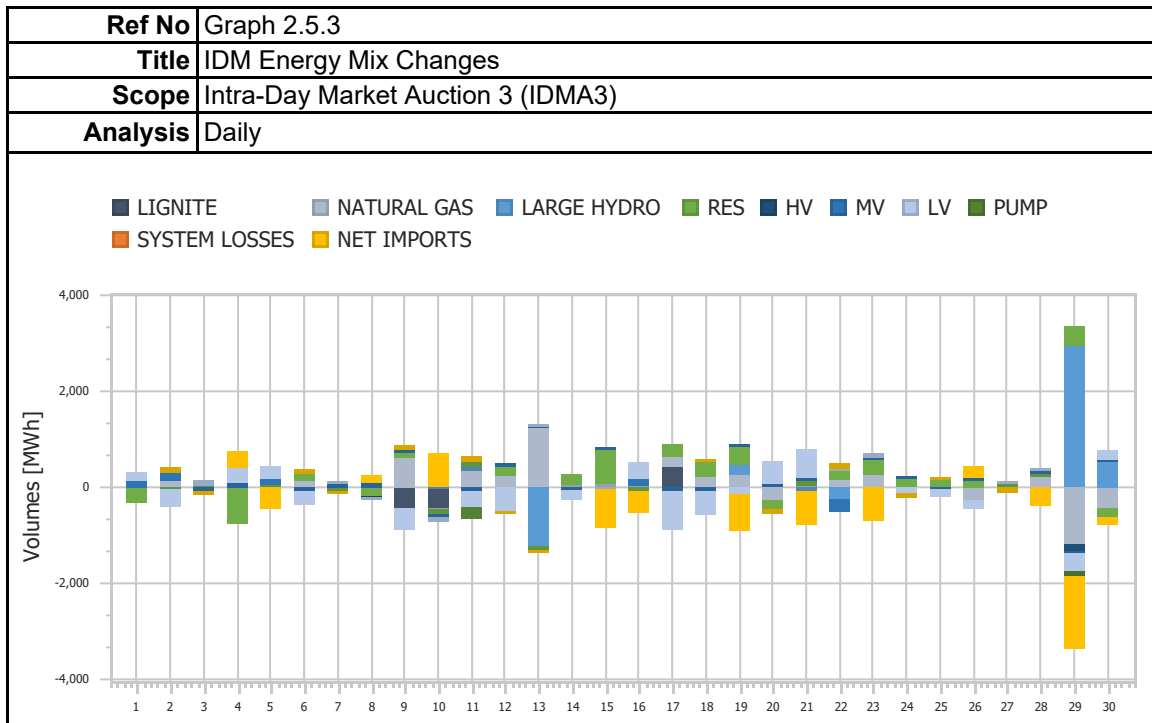
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Title	Market Clearing Price
Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



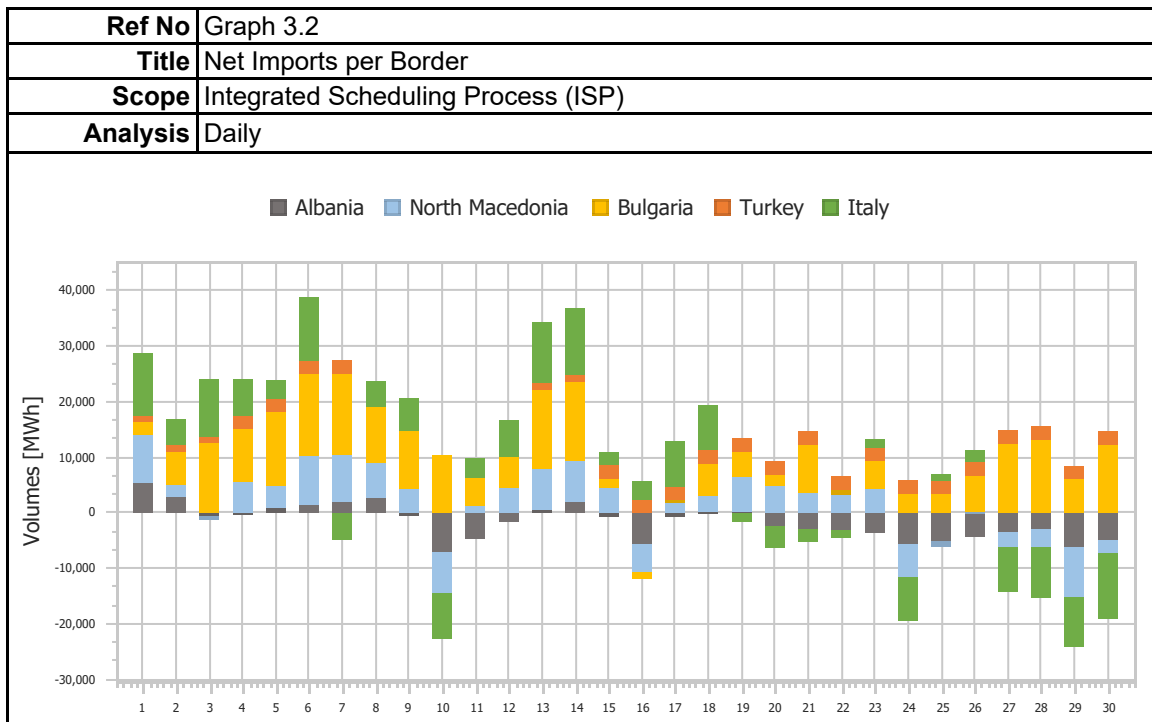
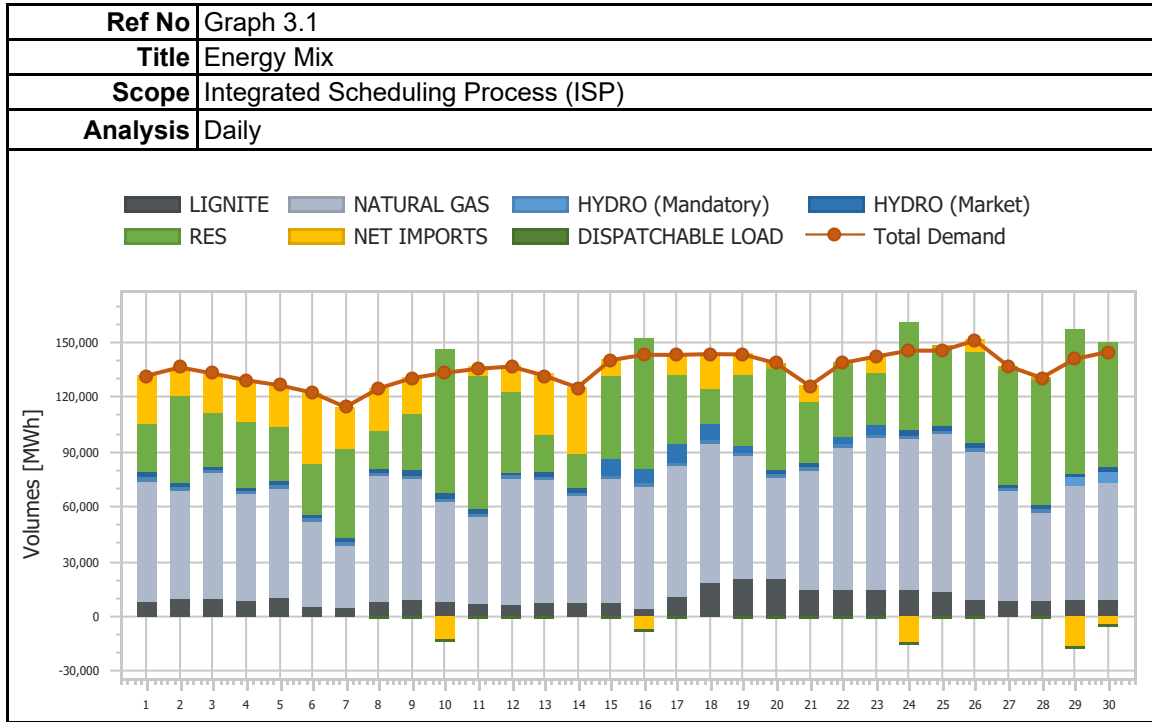
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Title	Market Clearing Price
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily



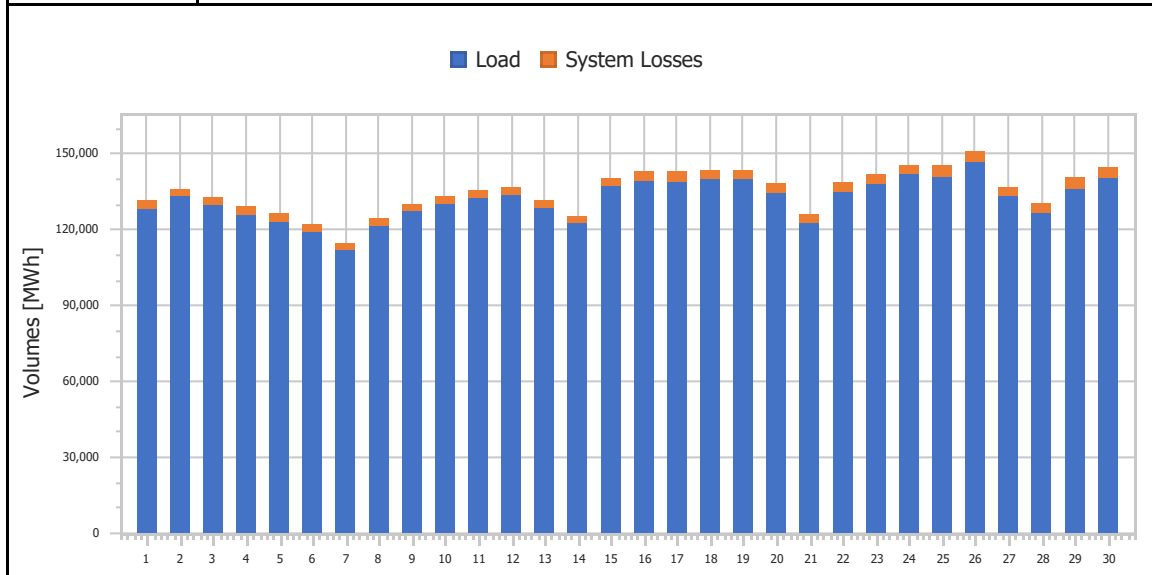




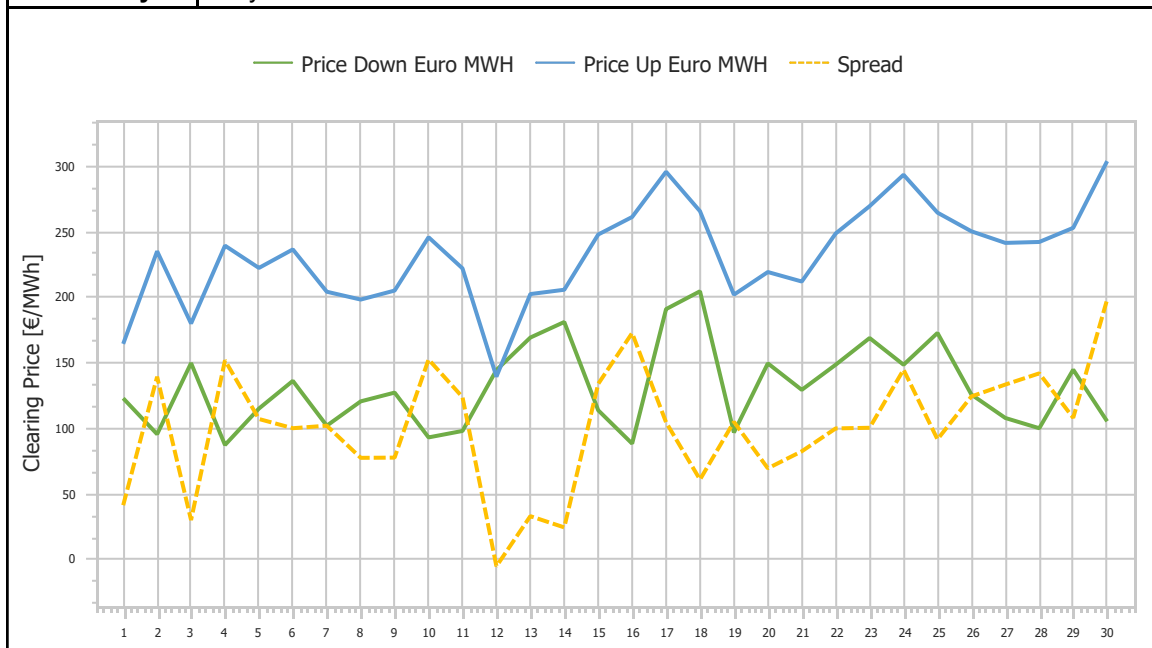
3. Integrated Scheduling Process (ISP)



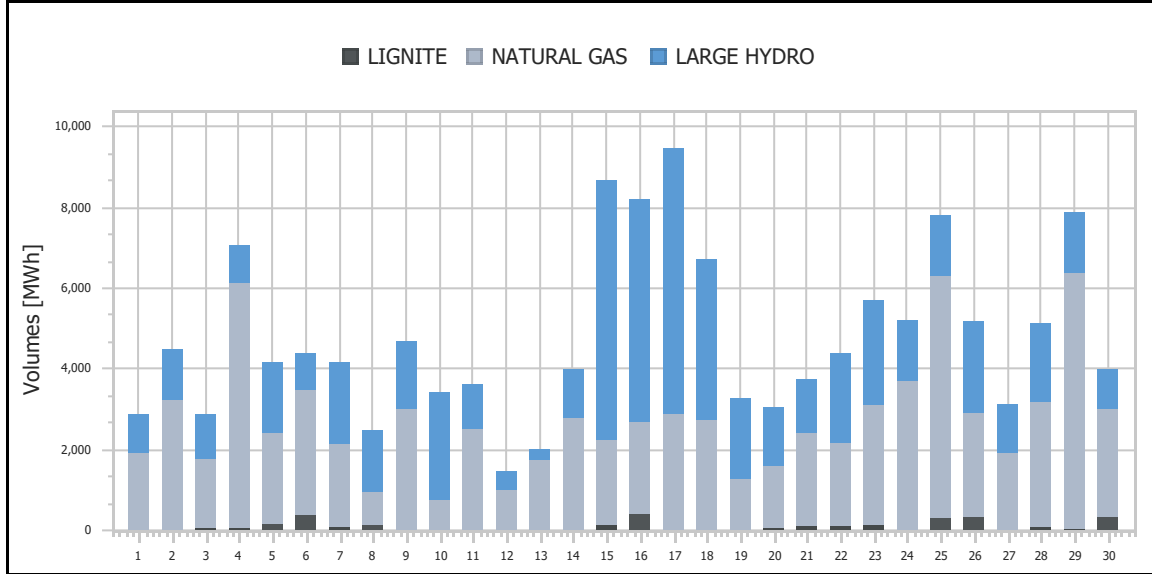
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Title	Demand & System Losses
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



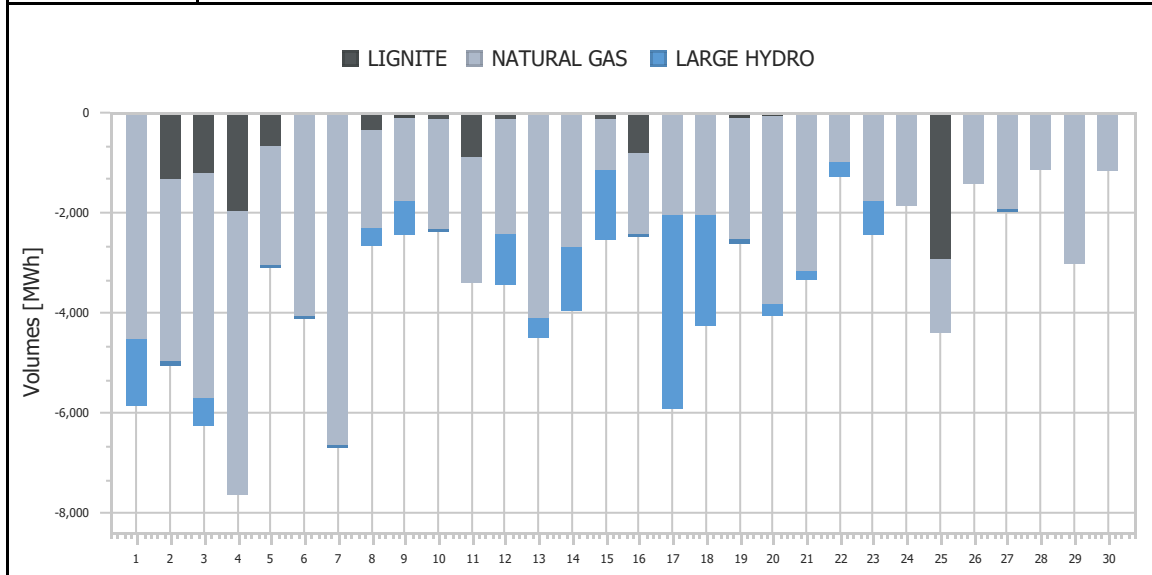
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Title	Clearing Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



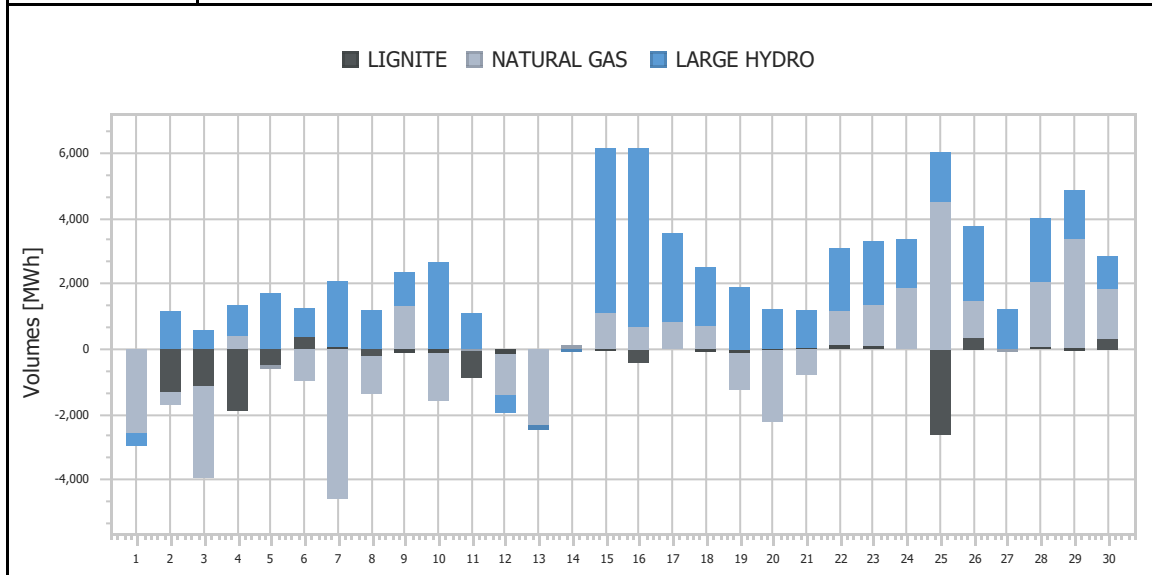
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Title	Upward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



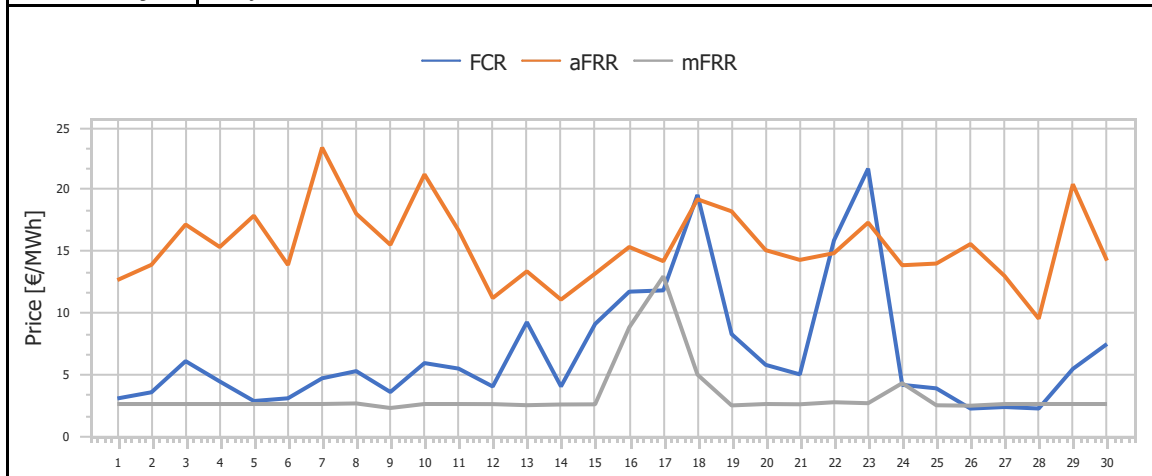
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Title	Downward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



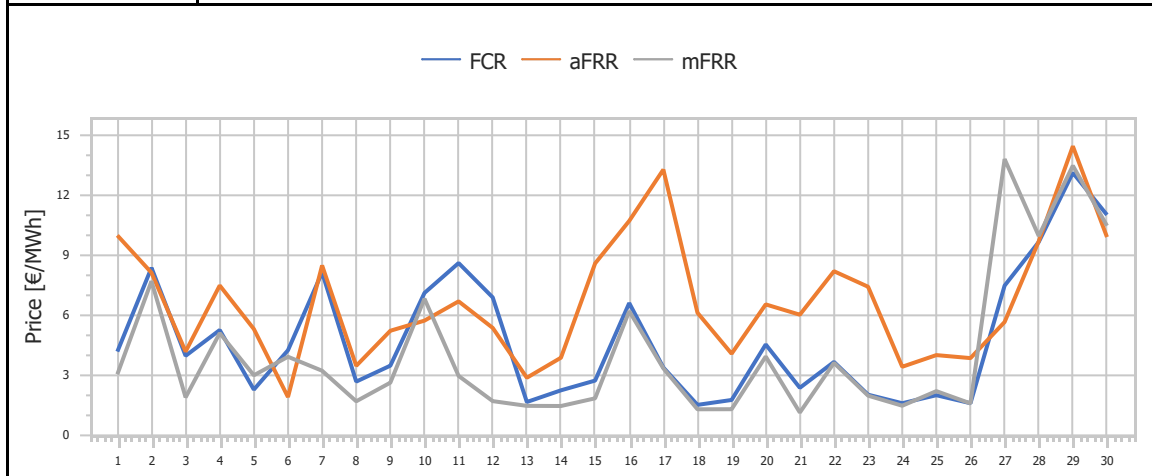
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Title	Net Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



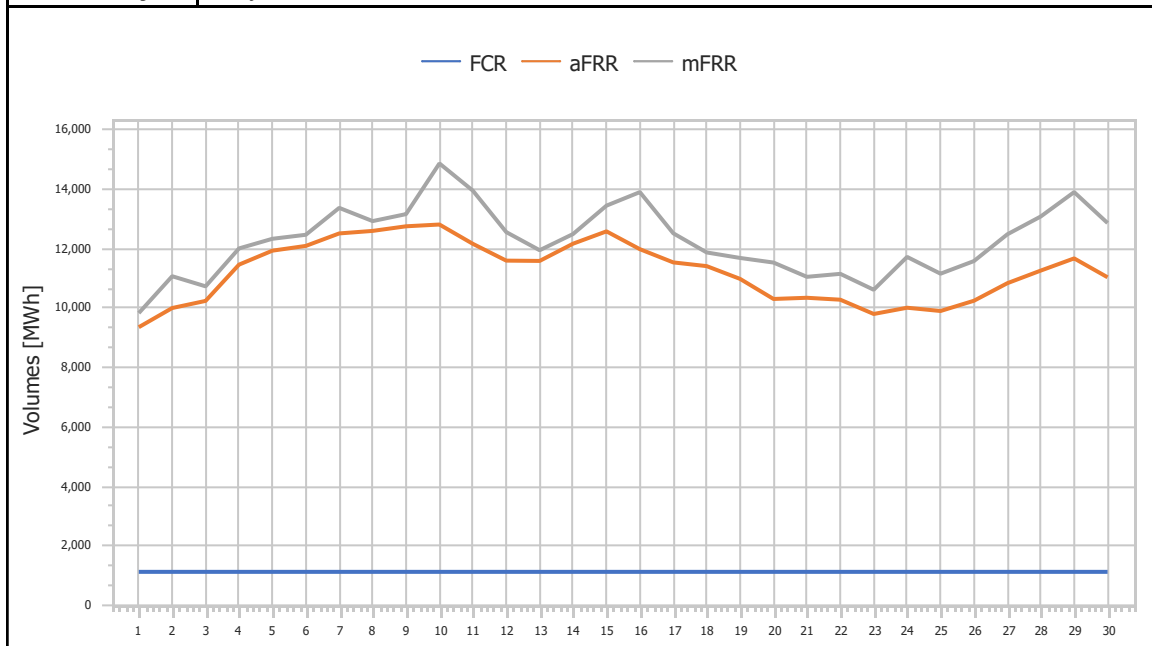
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Title	Upward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



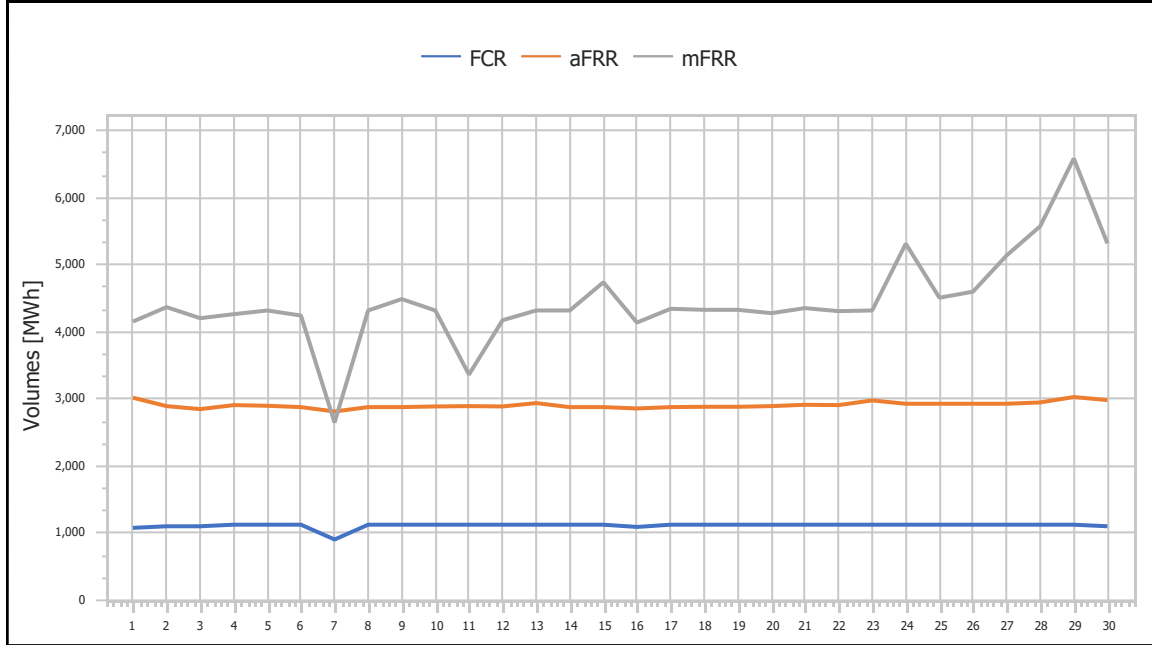
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Title	Downward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



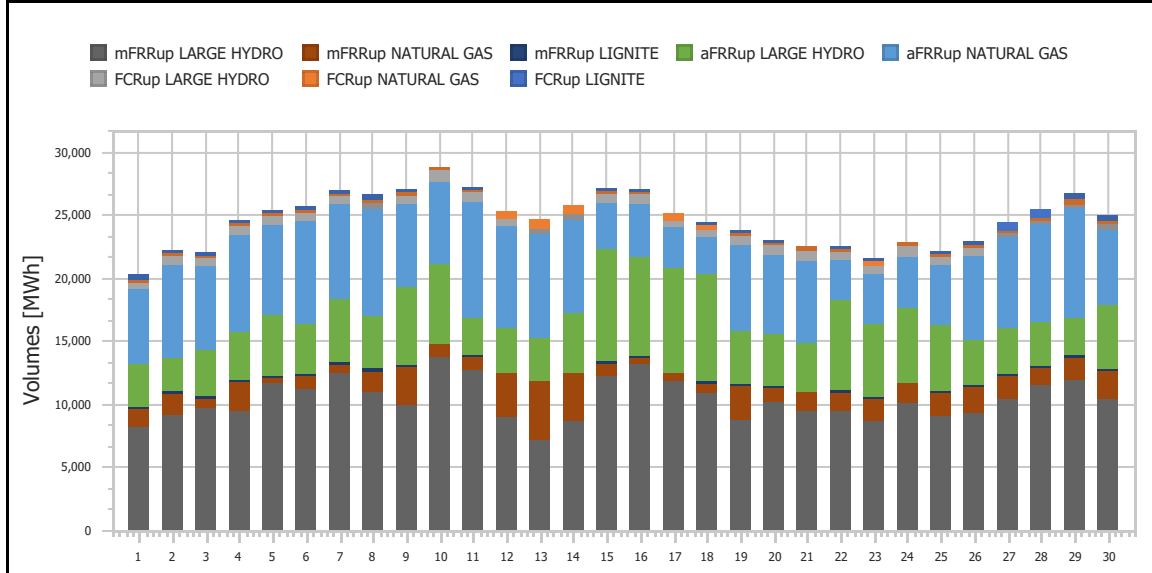
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Title	Upward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

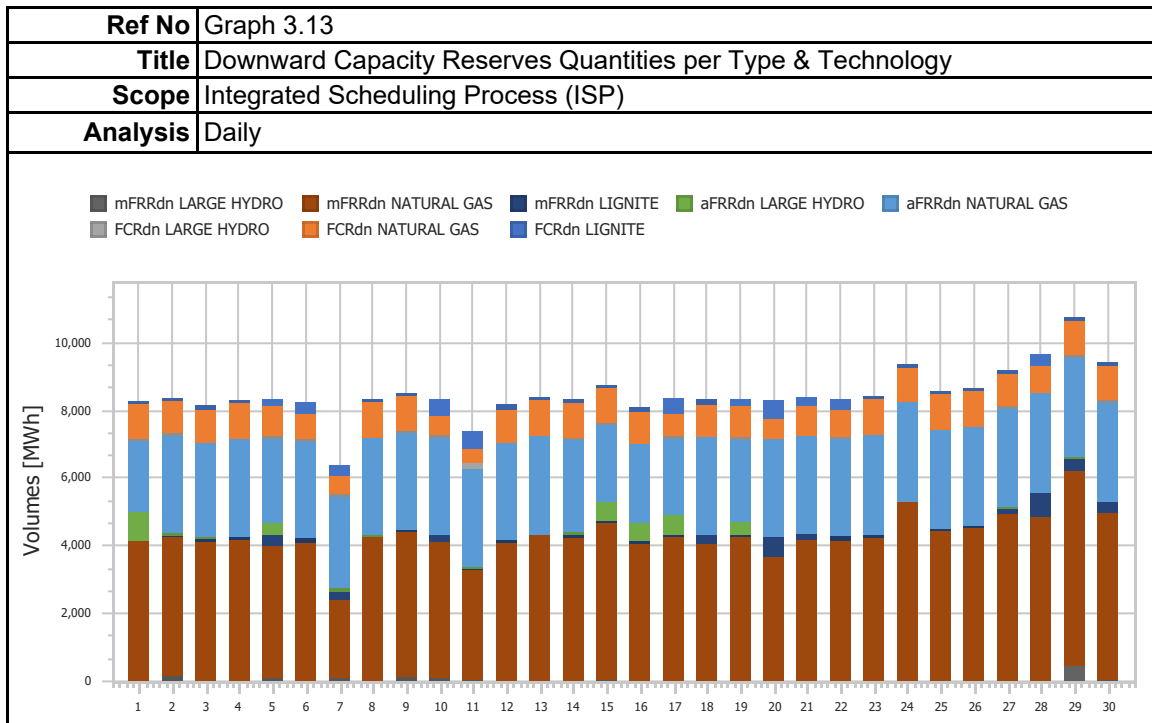


Ref No	Graph 3.11
Title	Downward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

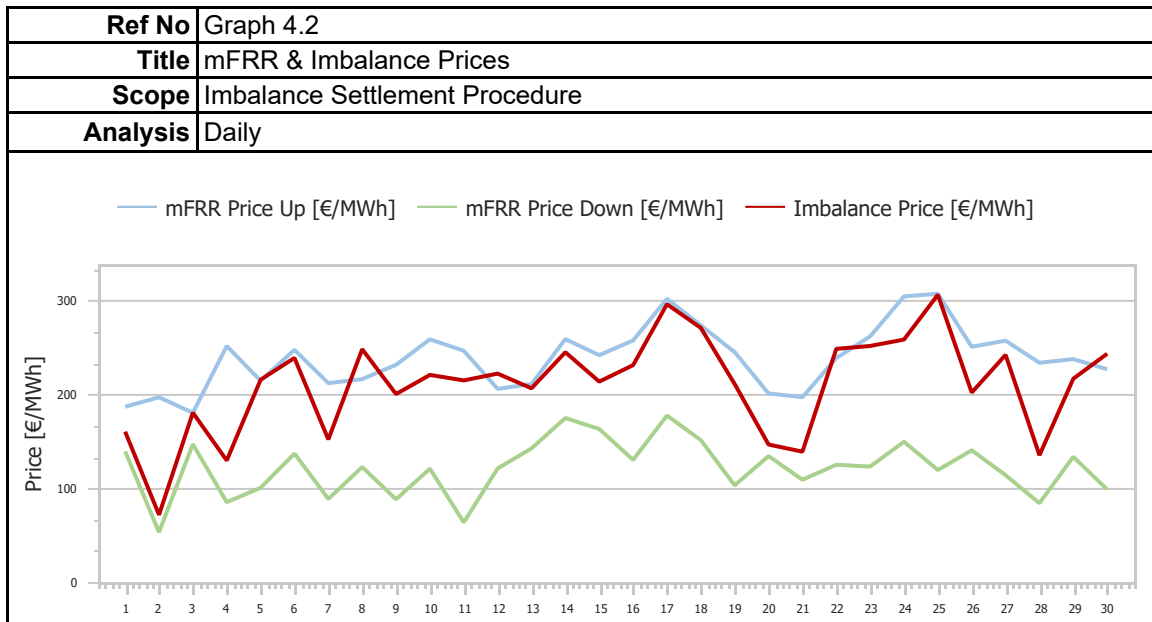
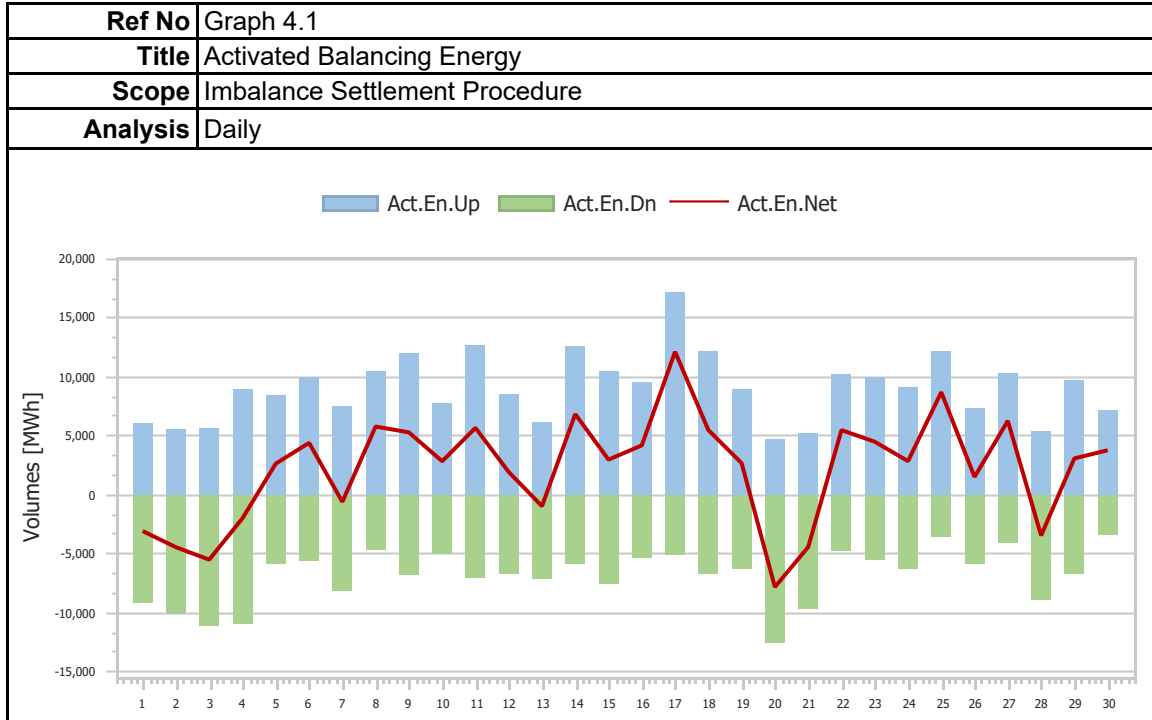


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Title	Upward Capacity Reserves Volumes per Technology
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

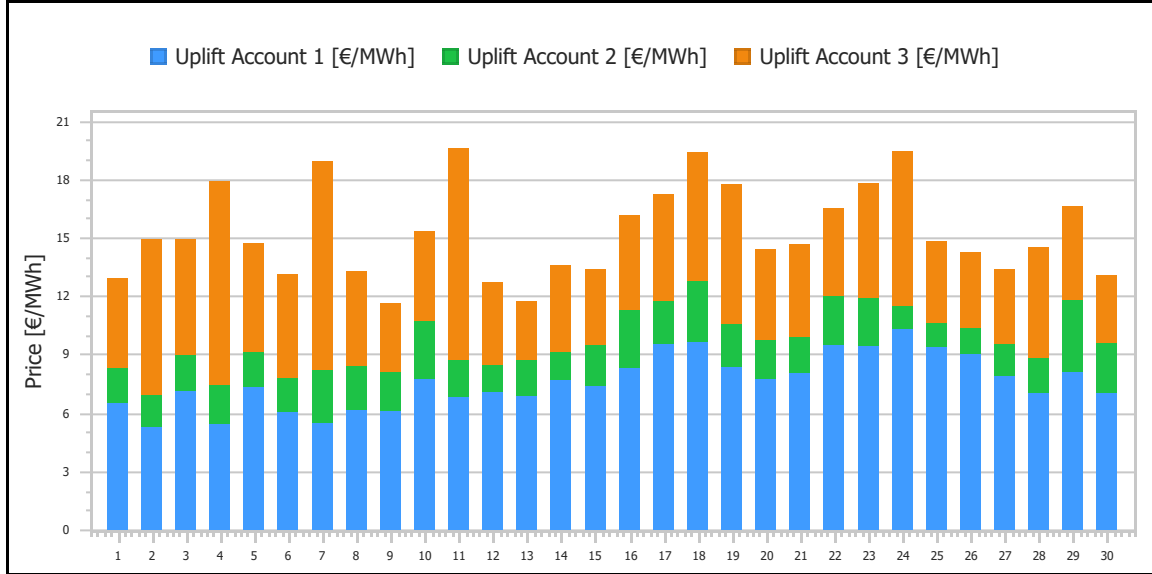




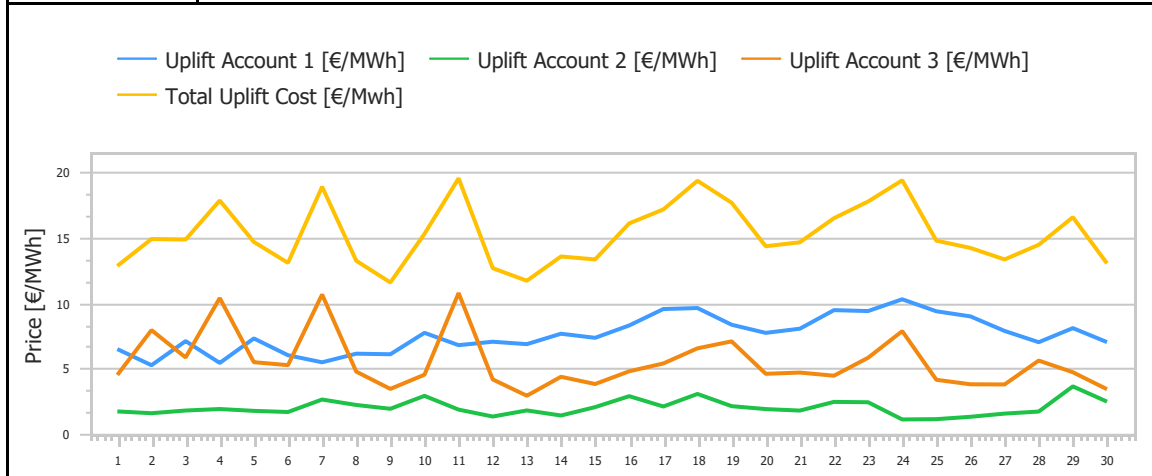
4. Imbalance Settlement Procedure



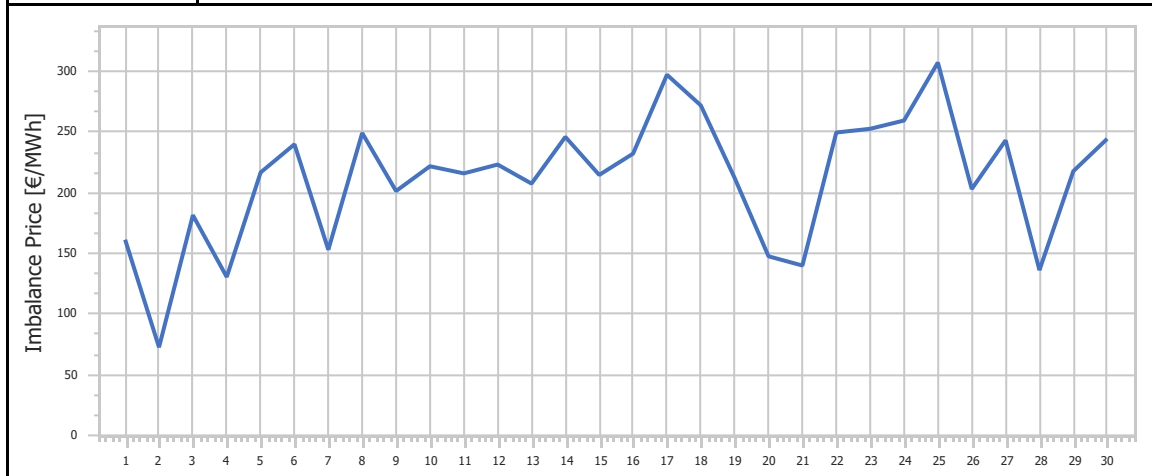
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



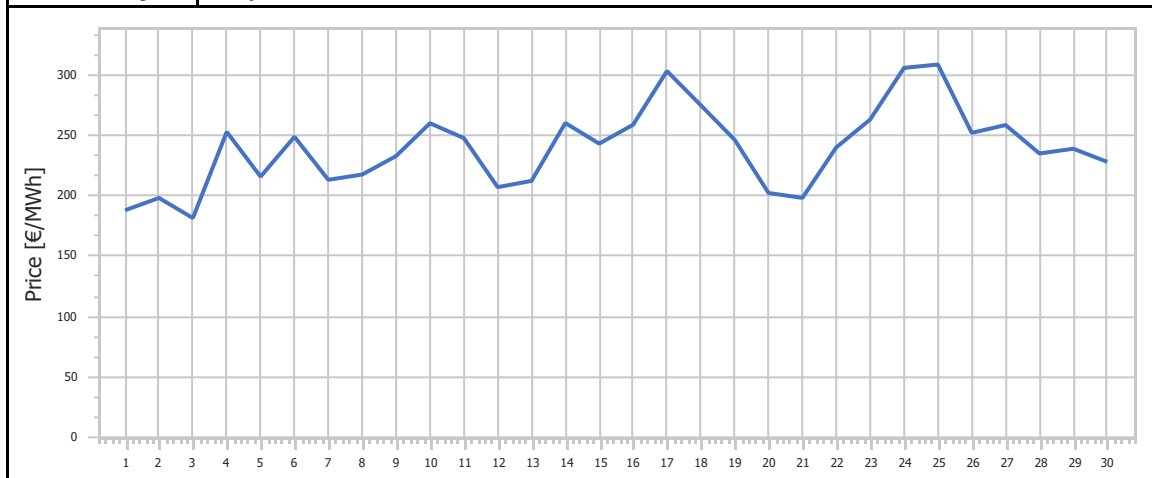
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



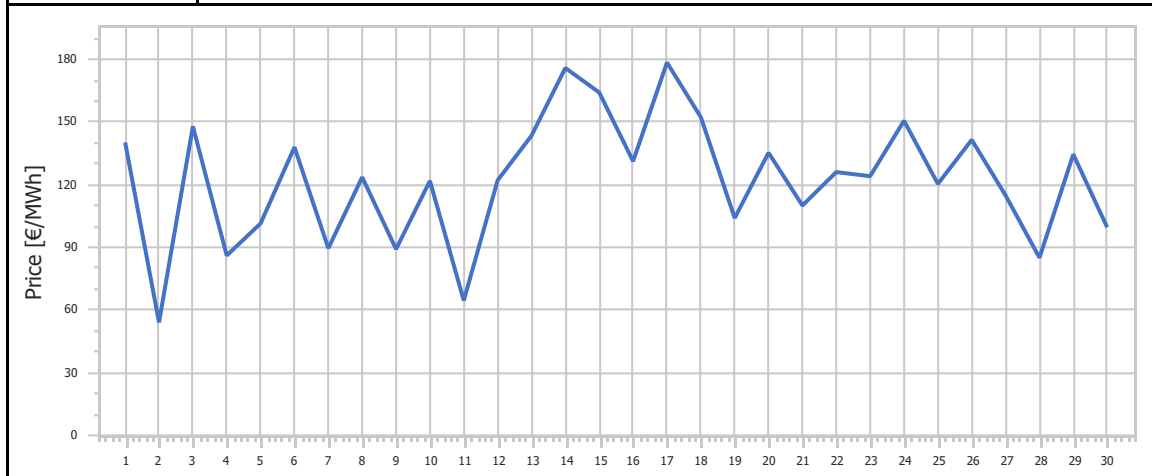
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Title	Imbalance Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



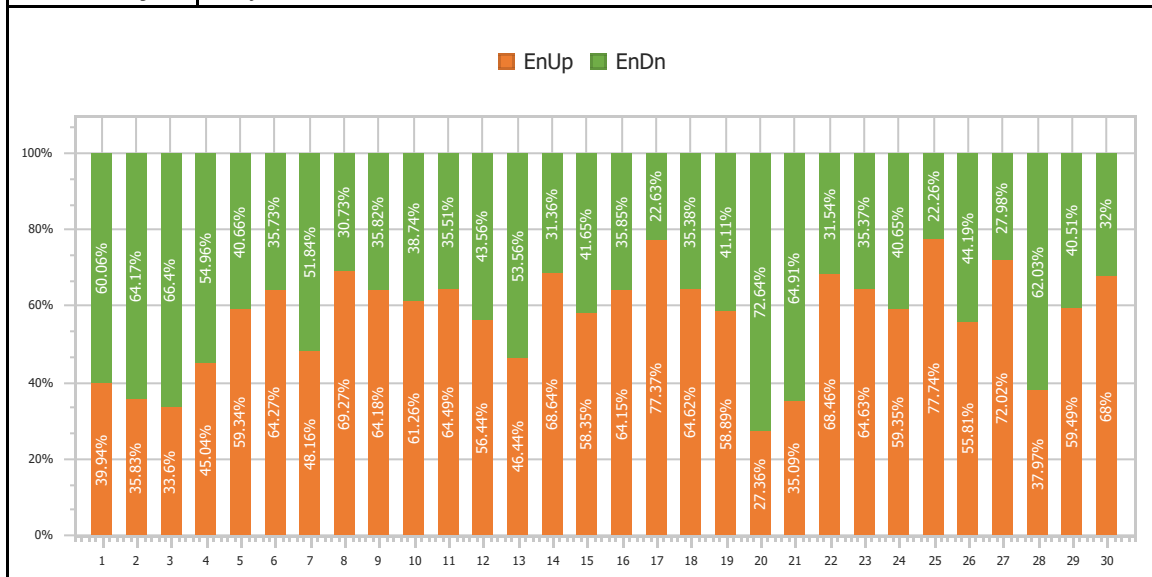
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Title	mFRR Up Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



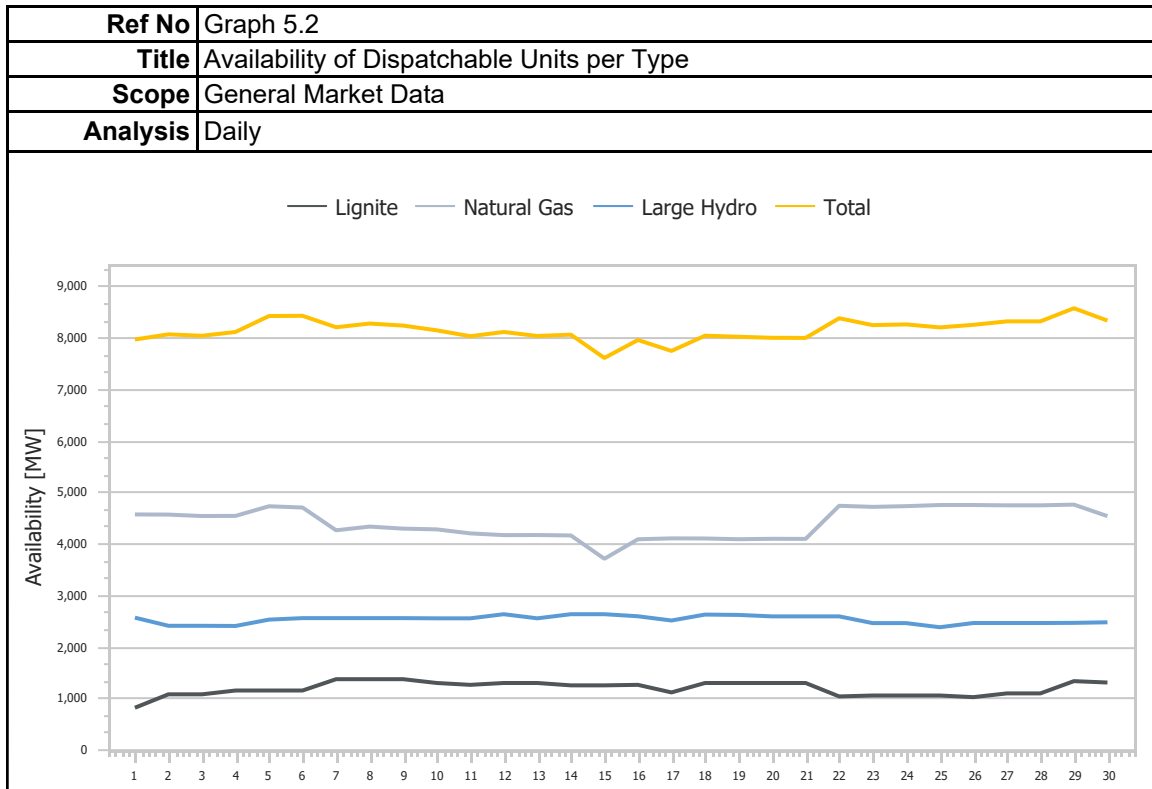
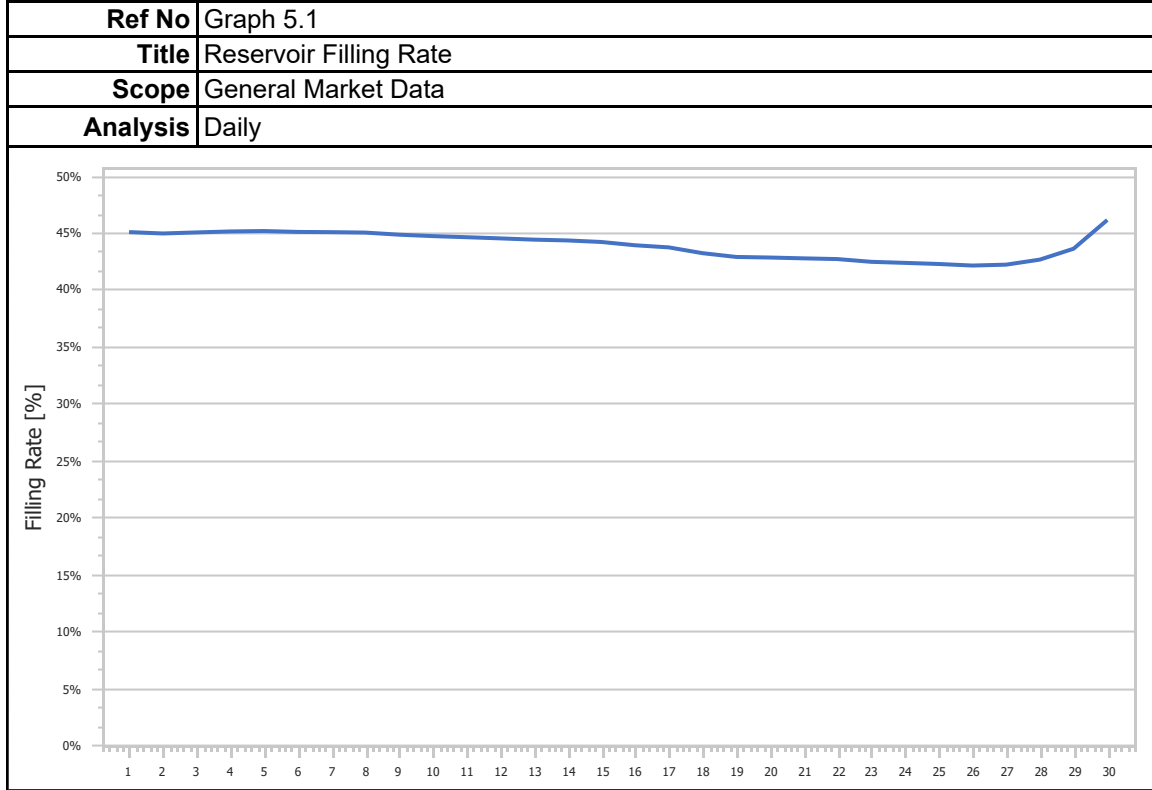
Ref No	Graph 4.7
Title	mFRR Down Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



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	327,326.853	7.04%	76,791,643.92€	7.03%
Crete Conventional	158,511.560	3.41%	37,138,899.10€	3.40%
Natural Gas	1,902,160.504	40.91%	462,080,989.80€	42.30%
Large Hydro	140,247.926	3.02%	38,272,542.59€	3.50%
RES	1,341,951.586	28.86%	303,566,282.83€	27.79%
Crete Renewables	40,253.850	0.87%	9,369,226.92€	0.86%
Imports	738,946.860	15.89%	165,189,660.68€	15.12%
Total	4,649,399.142	100.00%	1,092,409,245.85€	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]	CR Conv [MWh]	Natural Gas [MWh]	Hydro [MWh]	RES [MWh]	CR RES [MWh]	Imports [MWh]
Total	-	4,649,399.14	327,326.85	158,511.56	1,902,160.50	140,247.93	1,341,951.59	40,253.85	738,946.86
Average	228.87	154,979.97	10,910.90	5,283.72	63,405.35	4,674.93	44,731.72	1,341.80	24,631.56
Min	186.72	133,084.33	4,770.07	4,467.00	38,894.90	2,152.00	19,152.85	325.28	11,400.32
Min day	7	6	7	11	7	29	14	14	29
Max	285.24	175,756.27	20,760.00	6,224.00	82,141.75	10,621.20	80,617.09	2,714.00	42,643.10
Max day	25	30	19	8	25	17	29	20	14
Spread	98.51	42,671.94	15,989.93	1,757.00	43,246.85	8,469.20	61,464.23	2,388.72	31,242.78
Standard Deviation	25.64	11,671.38	3,750.52	446.45	10,916.97	2,451.62	18,433.76	639.05	8,191.39

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	101,076.500	2.17%	23,836,120.96€	2.18%
Crete Load	214,584.300	4.62%	50,699,385.64€	4.64%
HV Load	623,995.558	13.42%	141,495,345.46€	12.95%
MV Load	849,236.404	18.27%	199,183,107.03€	18.23%
LV Load	2,462,265.220	52.96%	584,359,398.33€	53.49%
PUMP	6,629.937	0.14%	1,147,734.98€	0.11%
Exports	391,610.820	8.42%	91,688,079.40€	8.39%
Total	4,649,398.742	100.00%	1,092,409,171.81€	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]	CR Load [MWh]	HV [MWh]	MV [MWh]	LV [MWh]	PUMP [MWh]	Exports [MWh]
Total	-	4,649,398.74	101,076.50	214,584.30	623,995.56	849,236.40	2,462,265.22	6,629.94	391,610.82
Average	228.87	154,979.96	3,369.22	7,152.81	20,799.85	28,307.88	82,075.51	348.94	13,053.69
Min	186.72	133,084.37	2,547.00	6,178.80	19,364.63	20,683.15	72,020.19	11.52	3,919.00
Min day	7	6	14	14	22	28	7	14	6
Max	285.24	175,756.44	4,520.50	8,324.00	22,978.53	32,210.87	89,246.10	955.00	28,488.30
Max day	25	30	25	1	13	2	26	24	10
Spread	98.51	42,672.06	1,973.50	2,145.20	3,613.91	11,527.72	17,225.92	943.48	24,569.30
Standard Deviation	25.64	11,671.40	526.43	452.02	898.13	3,683.54	4,714.66	195.67	6,713.29

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	1,311,361.260	75.28%	5,594,824.26€	87.08%
FCR	118,894.730	6.83%	376,242.33€	5.86%
mFRR	311,660.930	17.89%	453,910.28€	7.06%
Total	1,741,916.910	100.00%	6,424,976.87€	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	343,406.480	34.30%	891,078.89€	49.07%
FCR	131,424.380	13.13%	261,193.81€	14.38%
mFRR	526,227.340	52.57%	663,825.58€	36.55%
Total	1,001,058.200	100.00%	1,816,098.27€	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	113,236.120	41.57%	30,821,748.28€	41.39%
mFRR	159,175.720	58.43%	43,653,645.30€	58.61%
Total	272,411.840	100.00%	74,475,393.57€	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	69,868.260	34.10%	6,419,439.60€	27.80%
mFRR	135,030.760	65.90%	16,670,958.64€	72.20%
Total	204,899.030	100.00%	23,090,398.24€	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	4,649,399.14	96.04%
IDMA1	57,218.72	1.18%
IDMA2	41,278.47	0.85%
IDMA3	25,614.89	0.53%
IDM (Total)	124,112.08	2.56%
Balancing Energy (Up)	272,411.84	5.63%
Balancing Energy (Dn)	204,899.03	4.23%
Balancing Energy (Total)	67,512.81	1.39%
Total	4,841,024.03	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	1,092,409,245.85€	92.37%
IDMA1	14,413,581.30€	1.22%
IDMA2	9,631,505.26€	0.81%
IDMA3	6,513,367.32€	0.55%
IDM (Total)	30,558,453.88€	2.58%
Balancing Capacity (Up)	6,424,976.87€	0.54%
Balancing Capacity (Dn)	1,816,098.27€	0.15%
Balancing Capacity (Total)	8,241,075.15€	0.70%
Balancing Energy (Up)	74,475,393.57€	6.30%
Balancing Energy (Dn)	23,090,398.24€	1.95%
Balancing Energy (Total)	51,384,995.33€	4.35%
Balancing Market (Total)	59,626,070.48€	5.04%
Total	1,182,593,770.21€	100.00%