

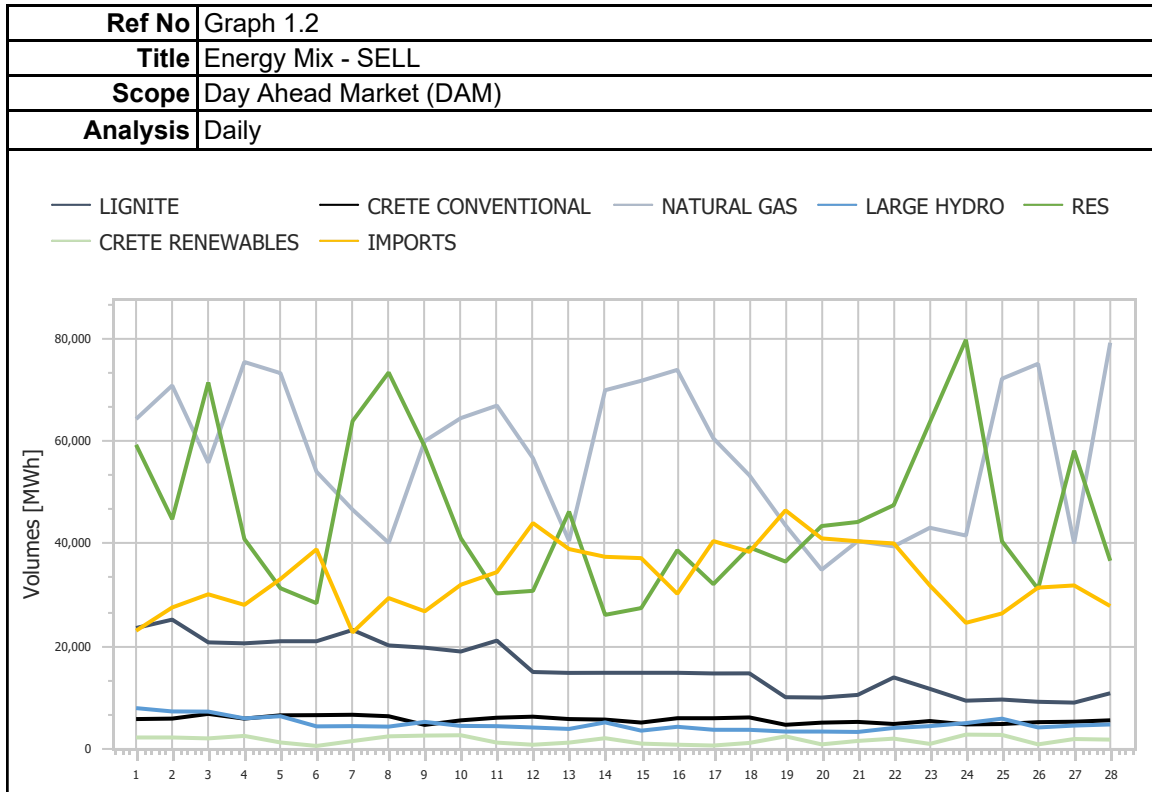
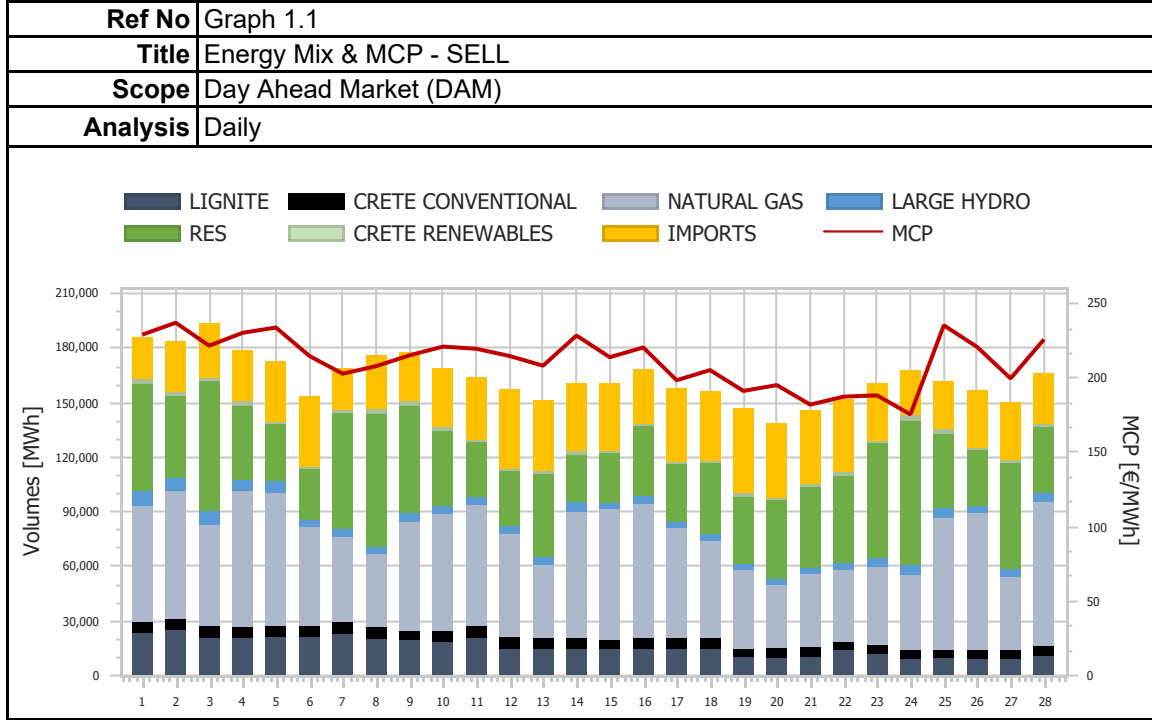
Market Monitoring Report

Monthly - Public - 2

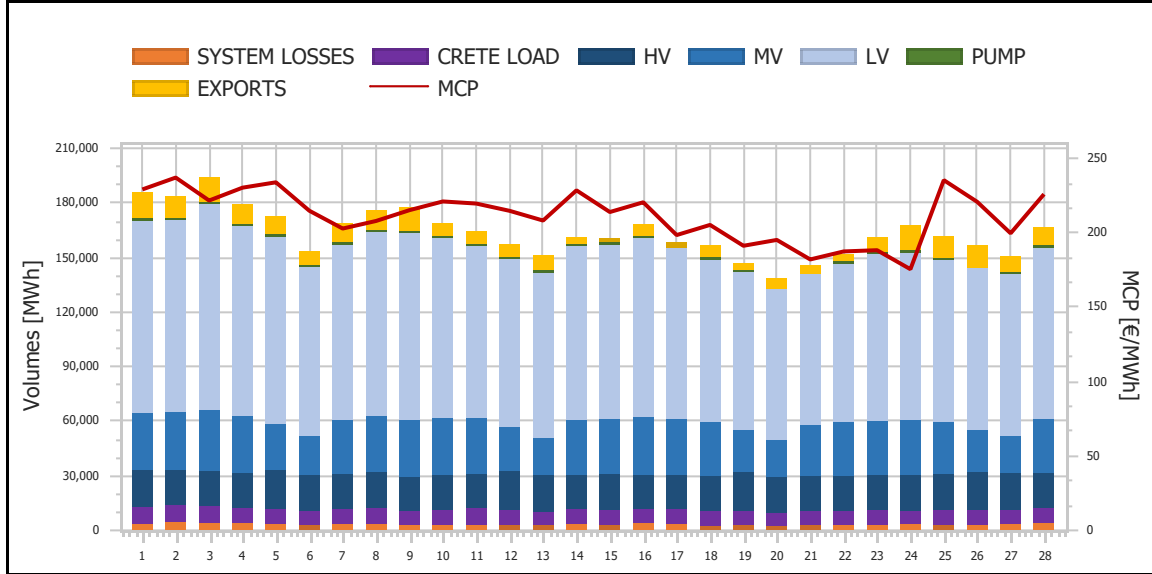
02-2022



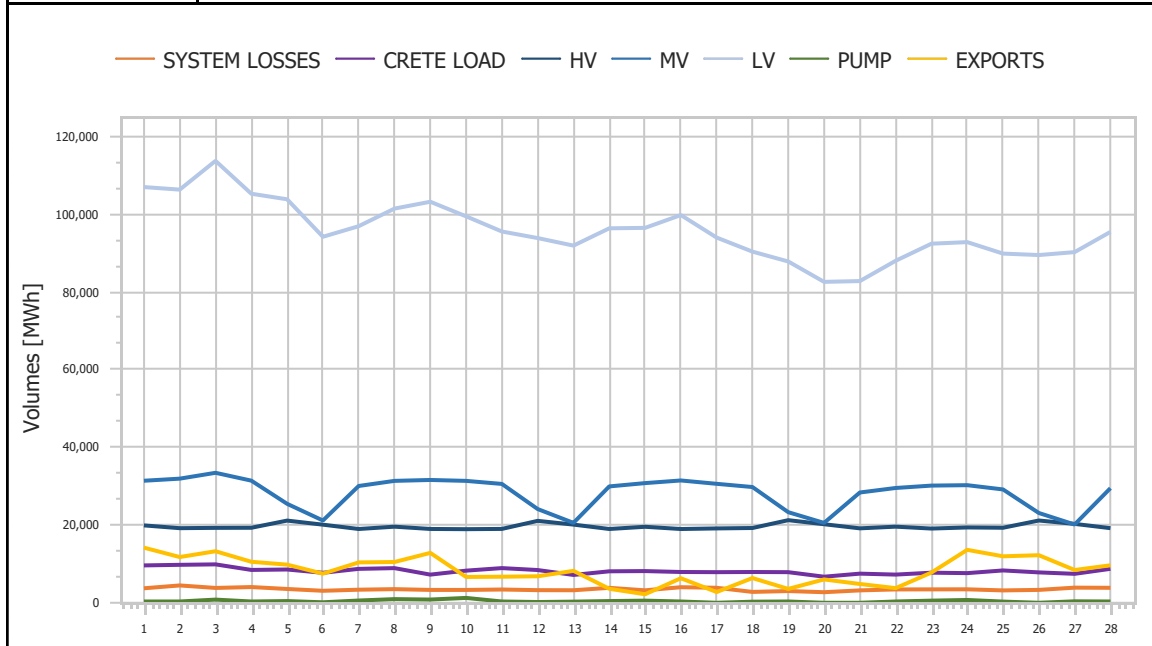
1. Day Ahead Market (DAM)



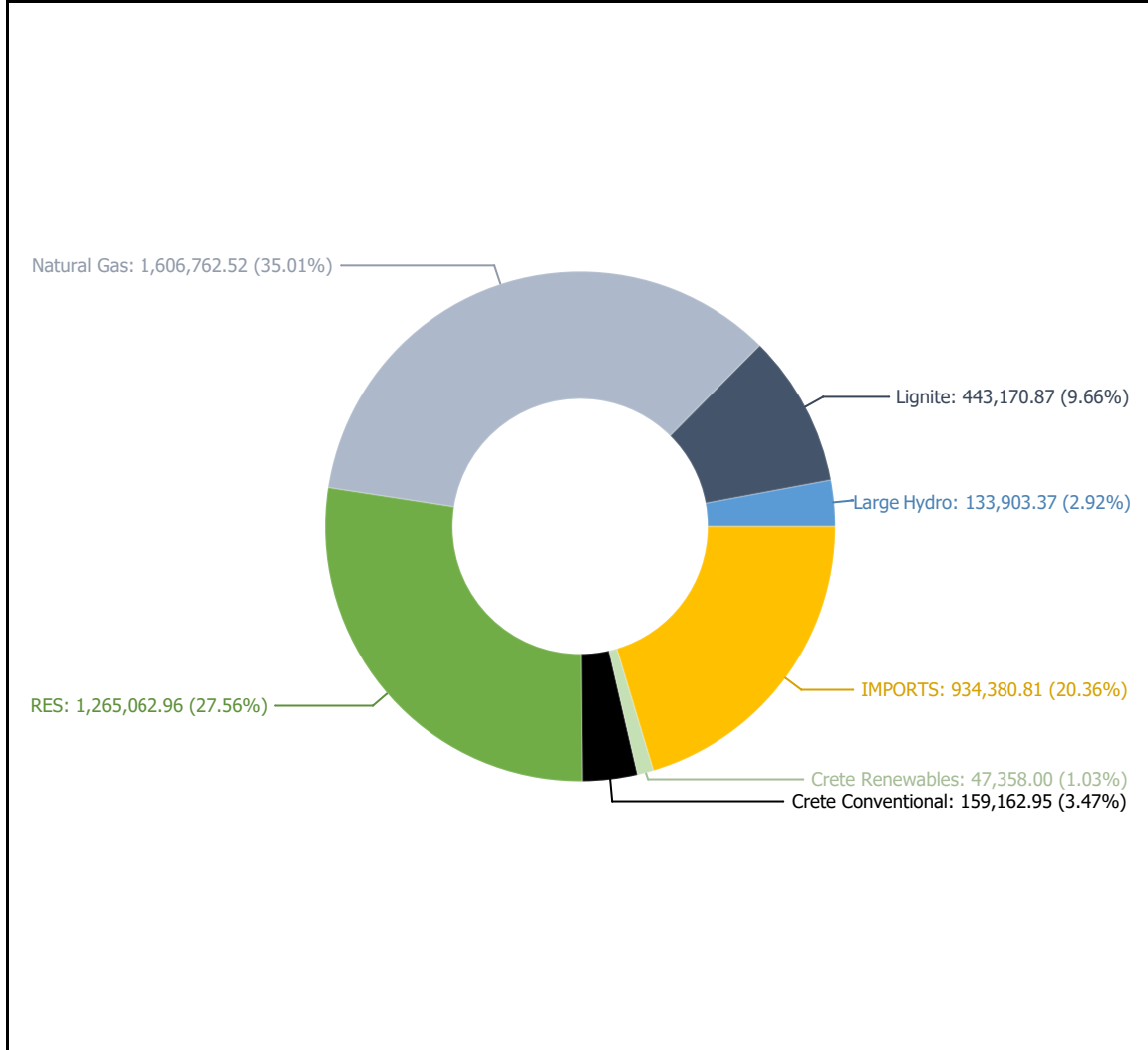
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Title	Energy Mix & MCP - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily



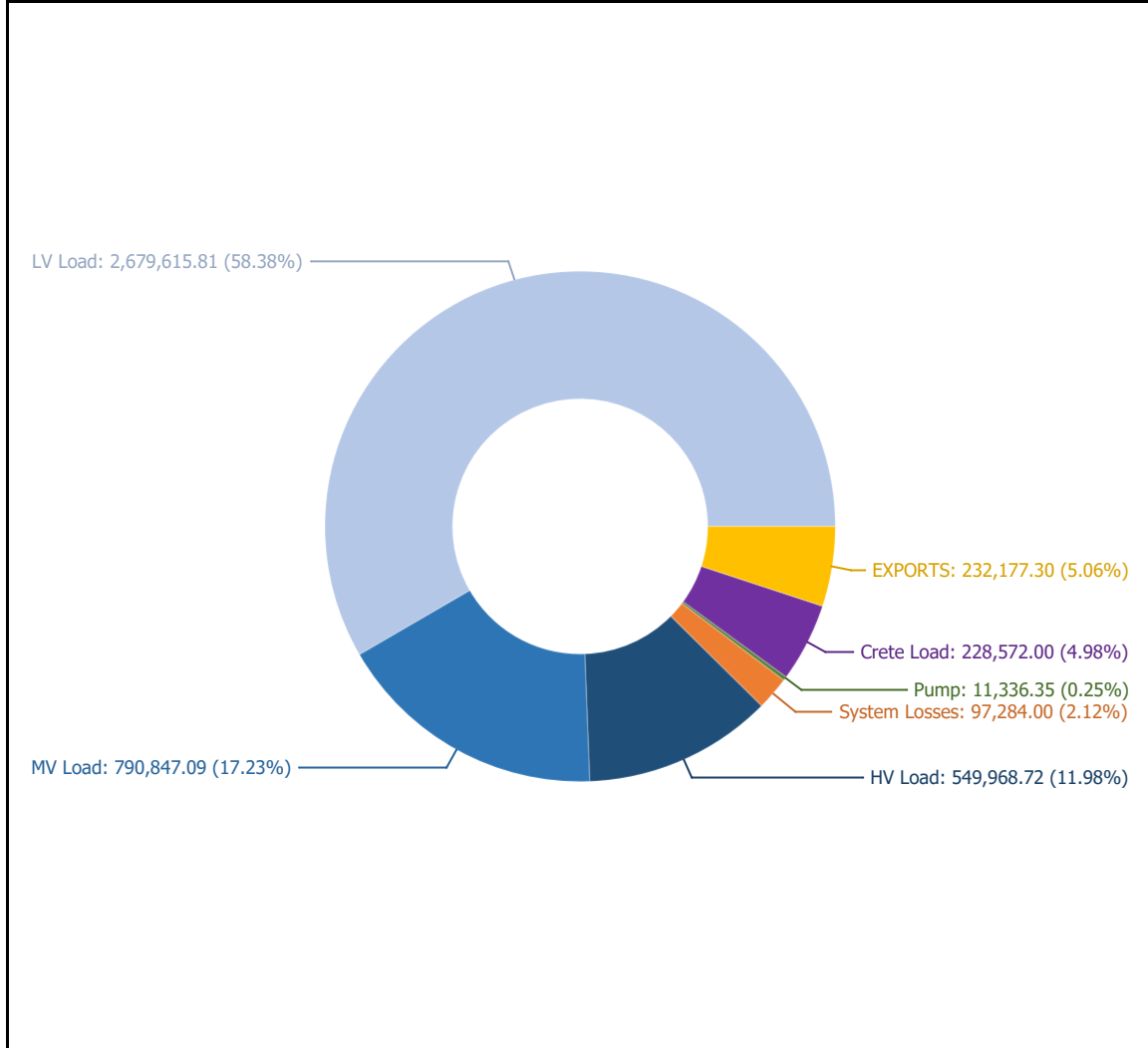
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Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily

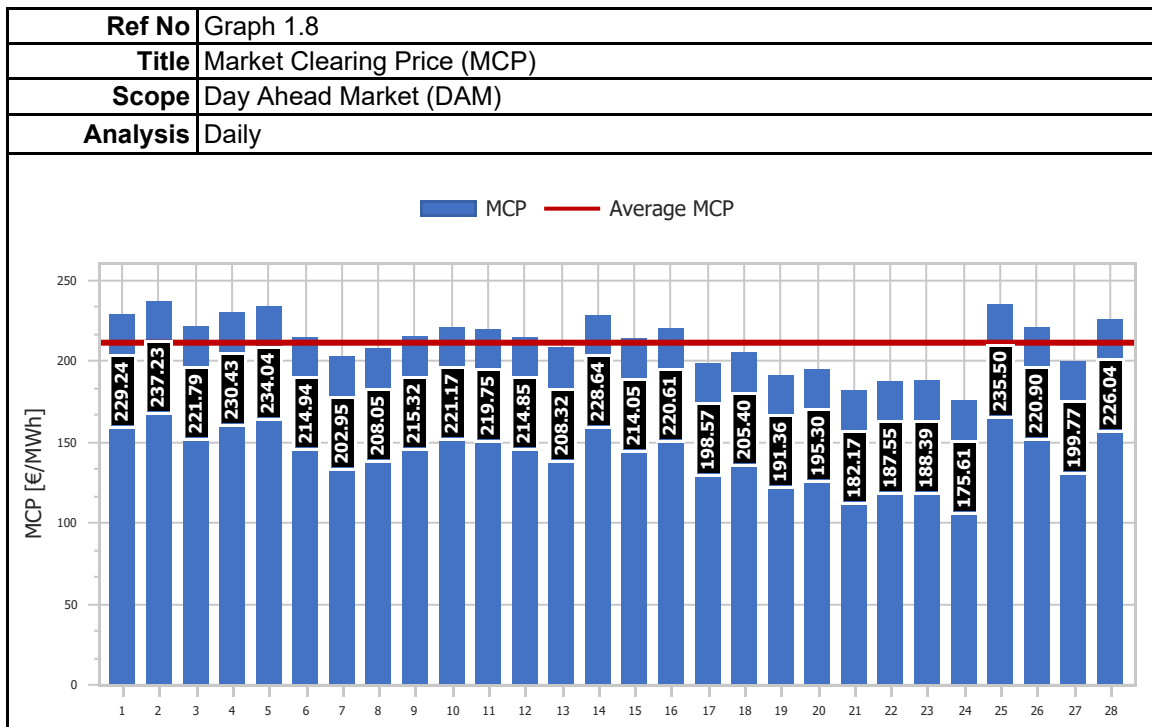
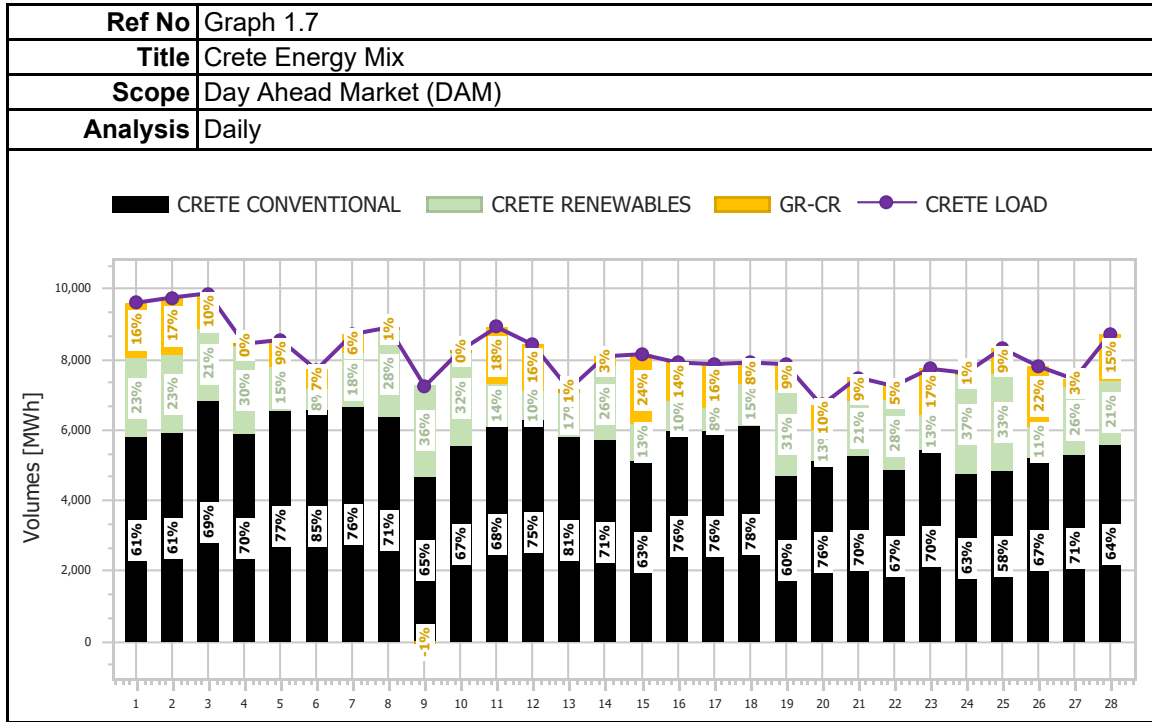


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Title	Energy Mix - SELL
Scope	Day Ahead Market (DAM)
Analysis	Daily

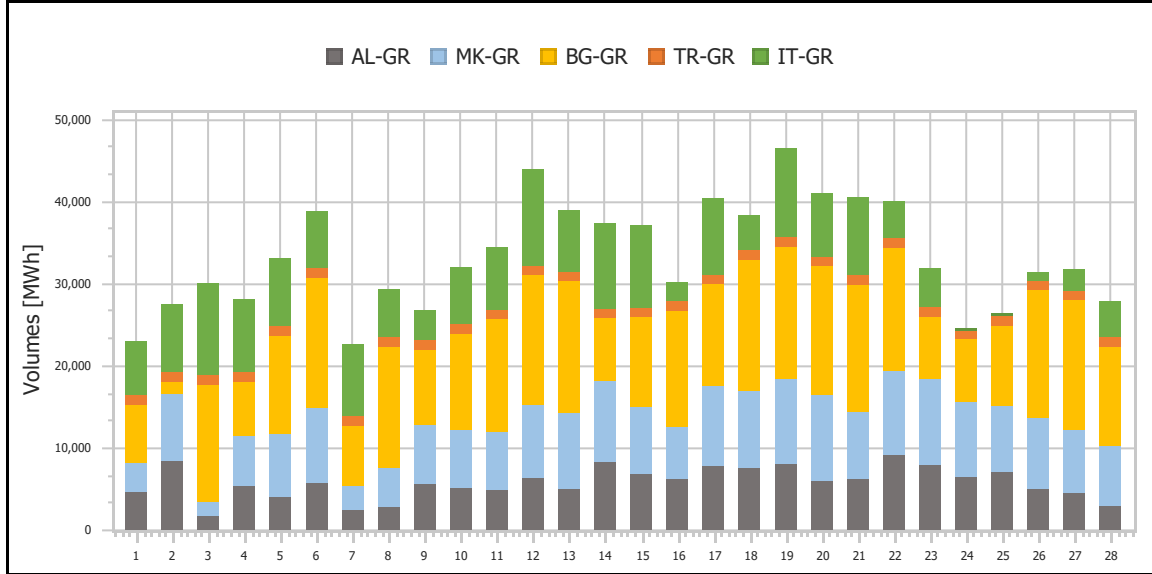


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Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily

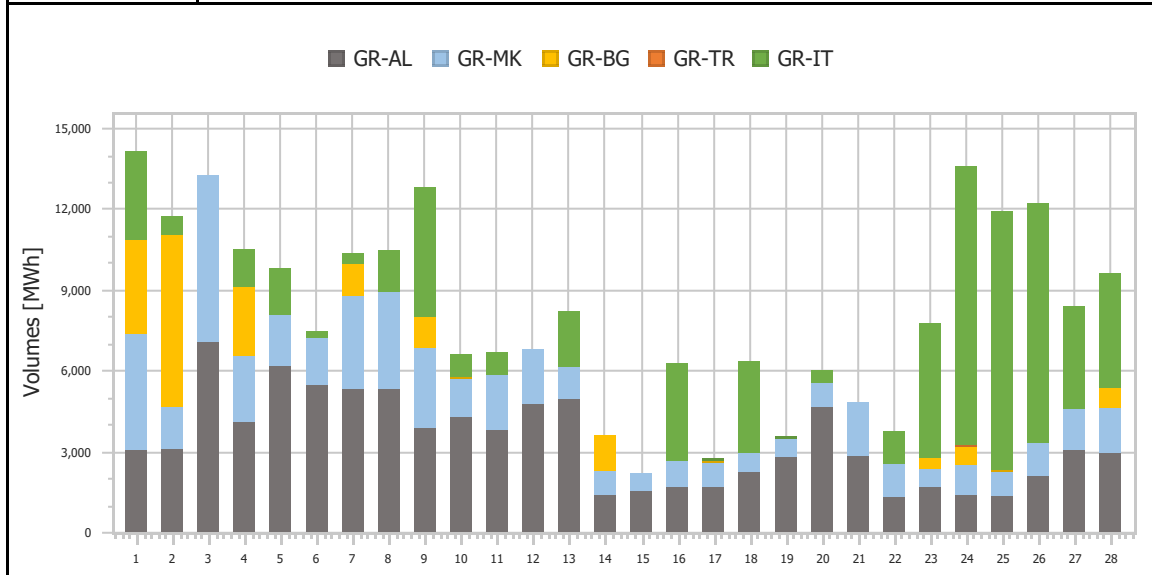




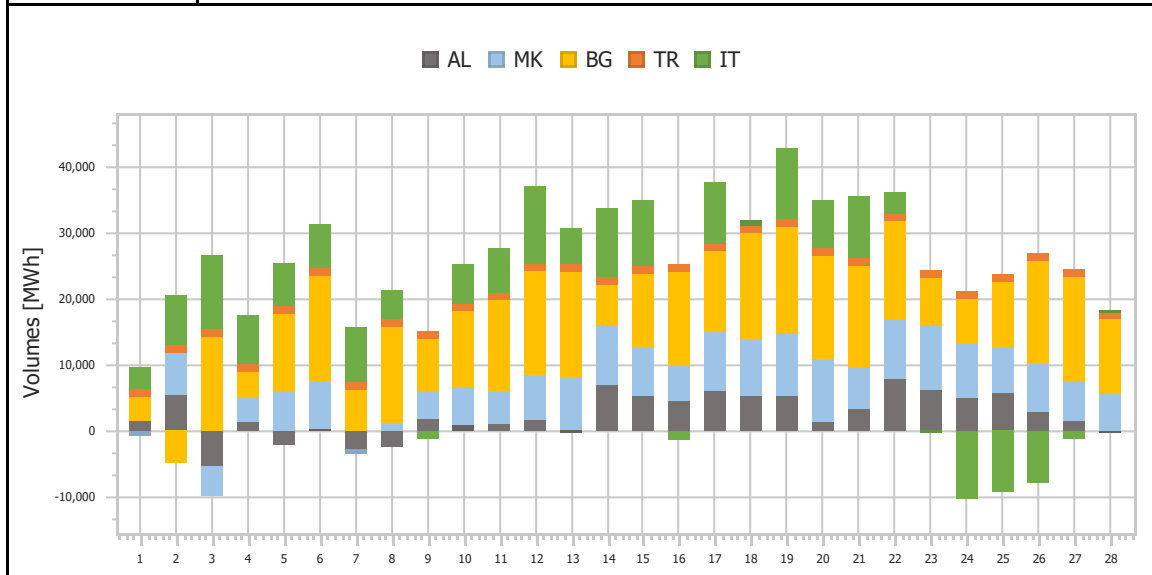
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Title	Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



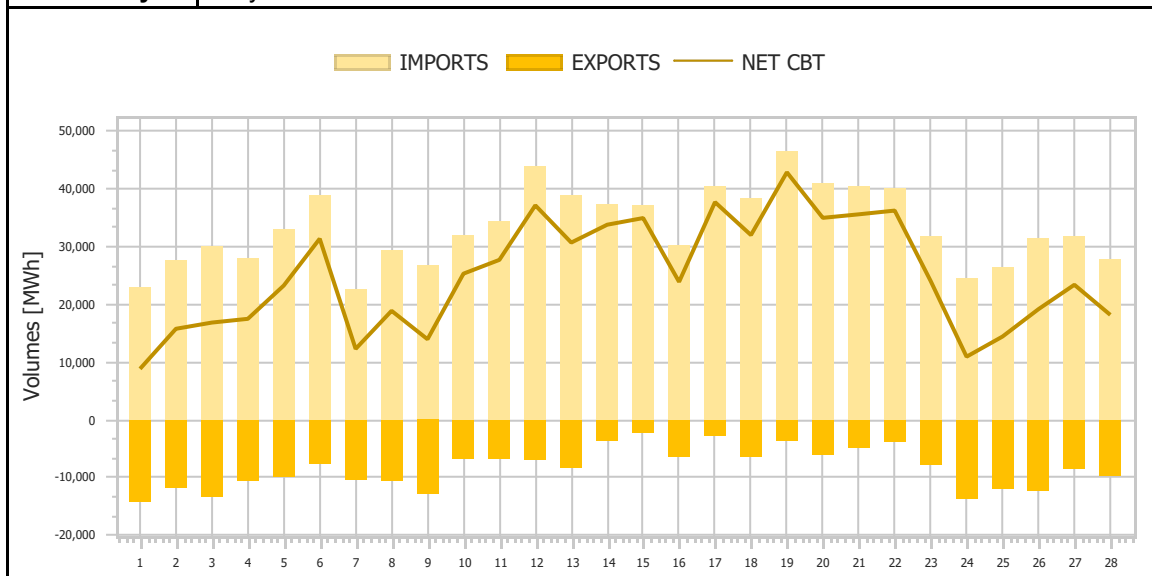
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Title	Exports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



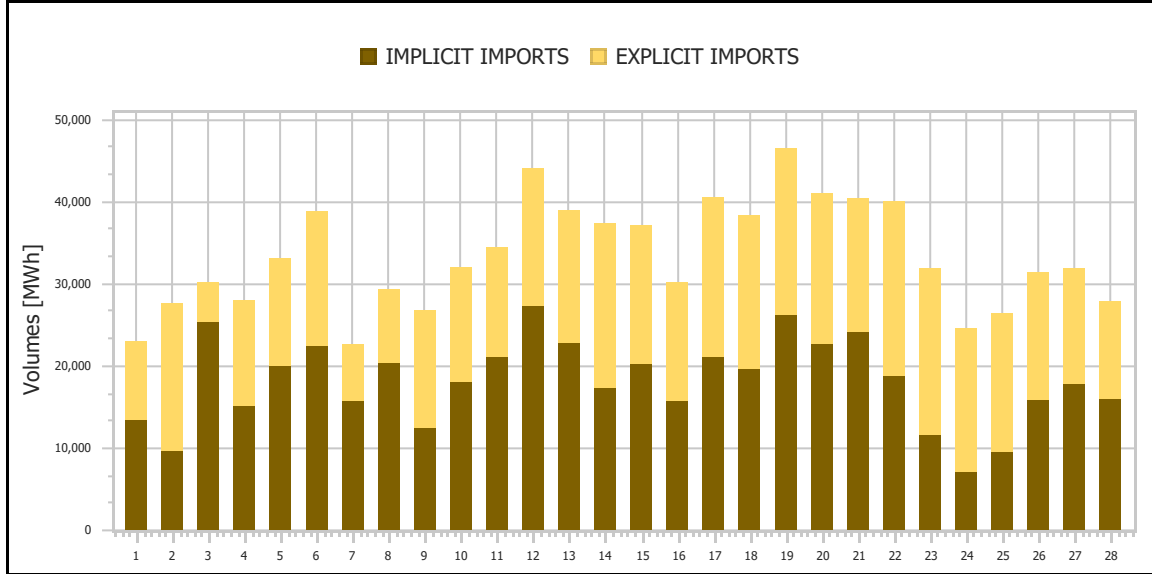
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Title	Net Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



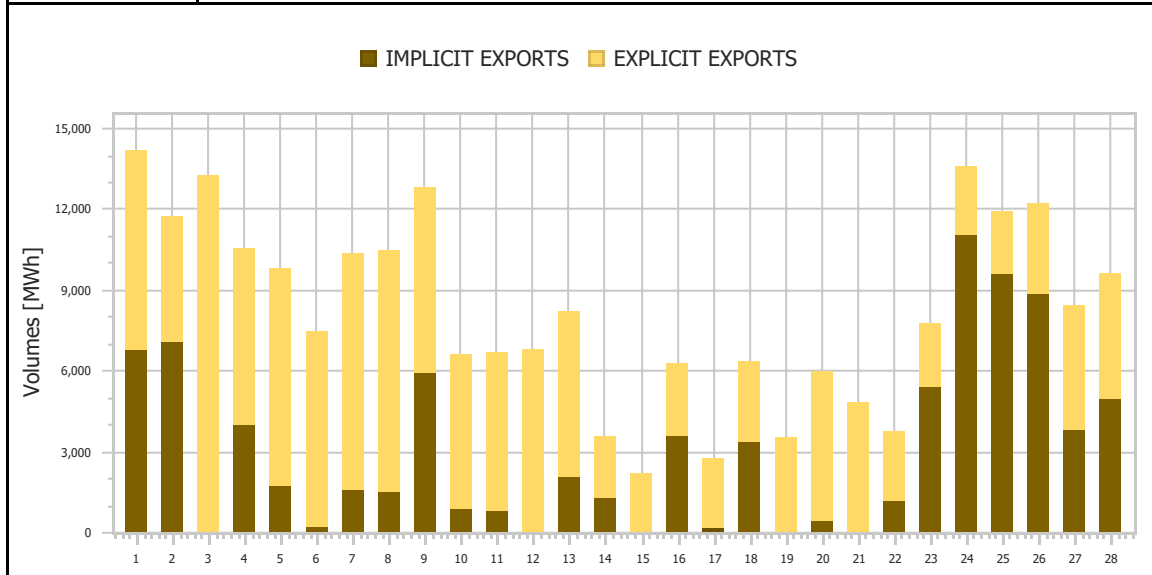
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Title	Total Imports & Exports
Scope	Day Ahead Market (DAM)
Analysis	Daily

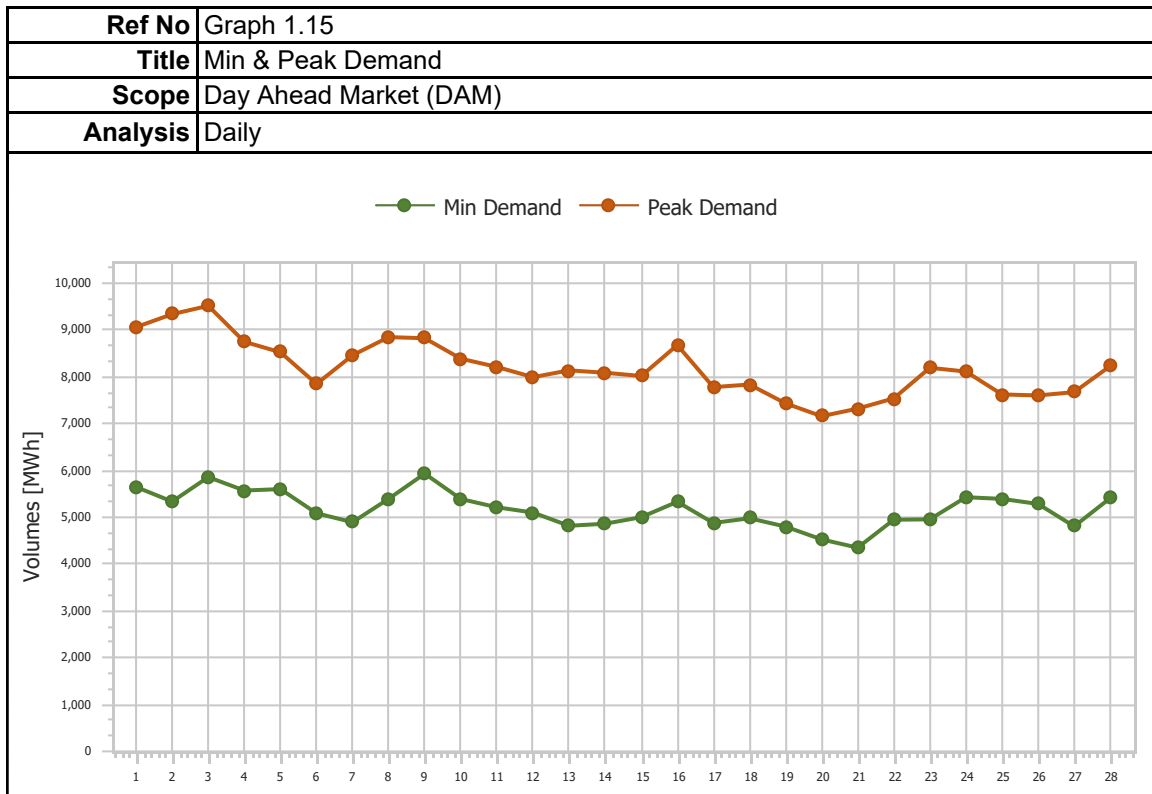


Ref No	Graph 1.13
Title	Imports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Daily

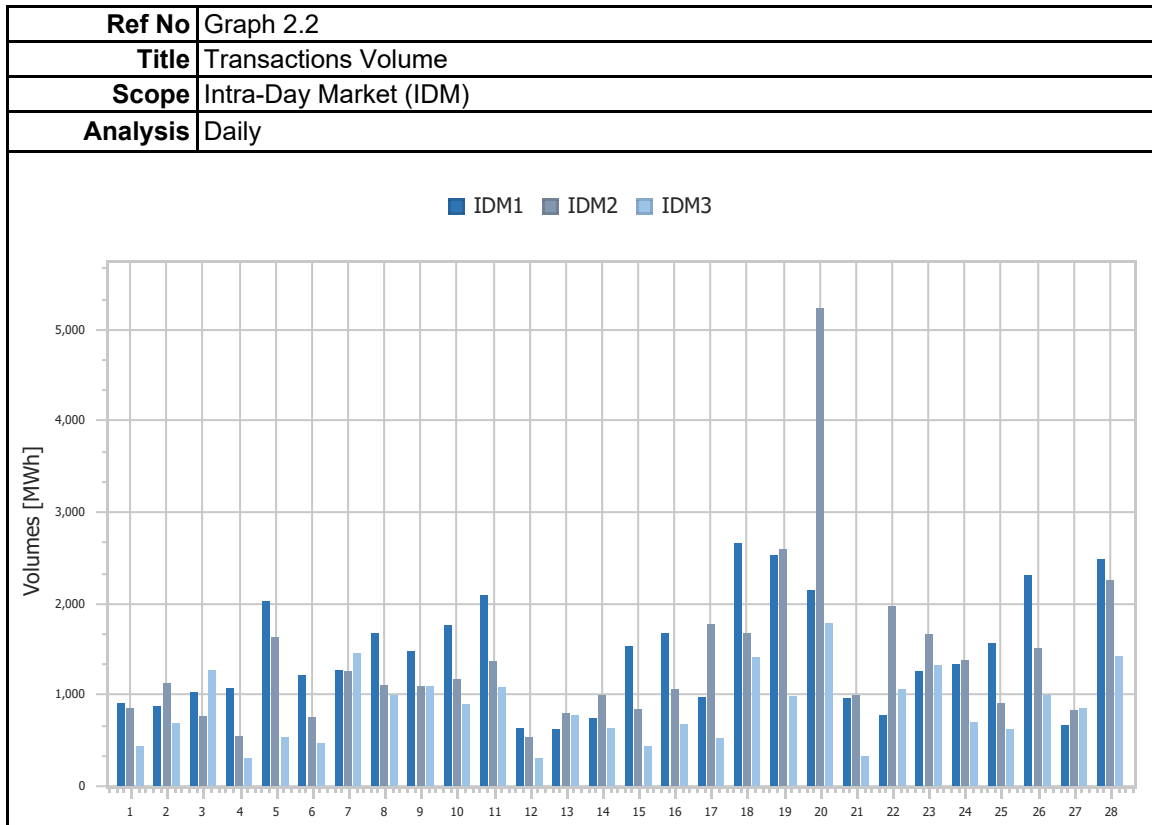
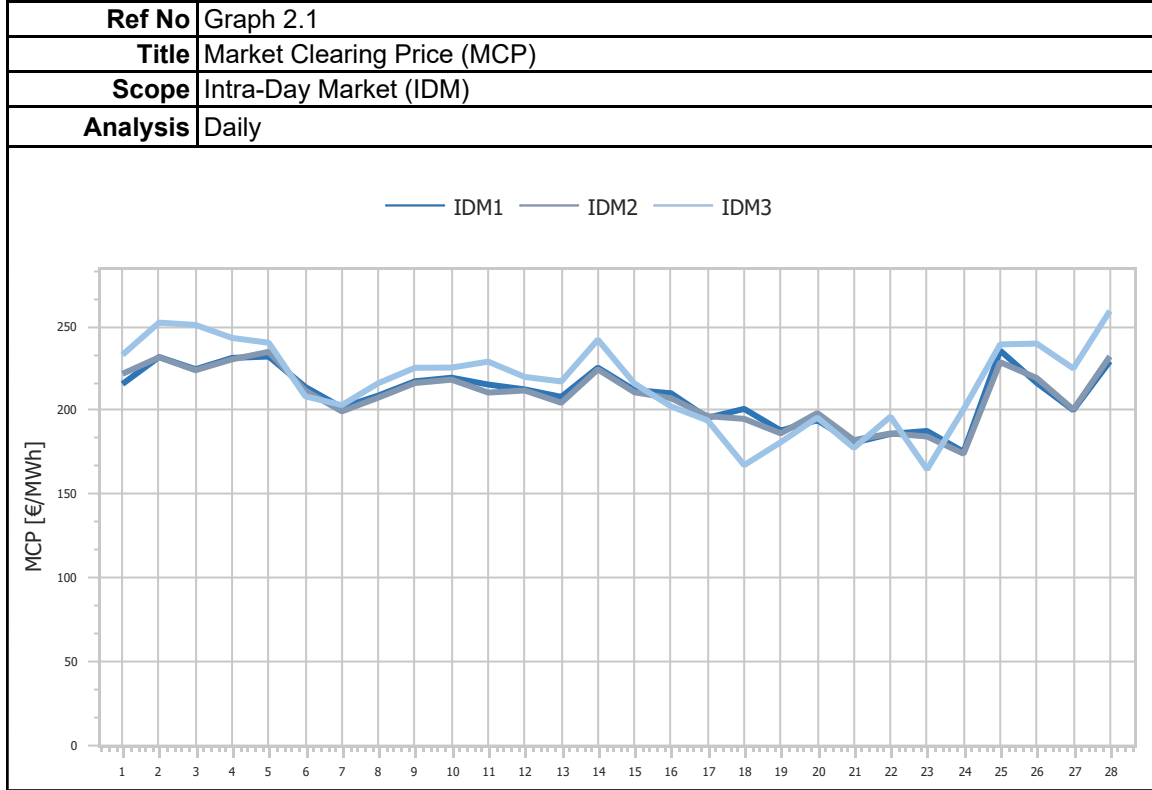


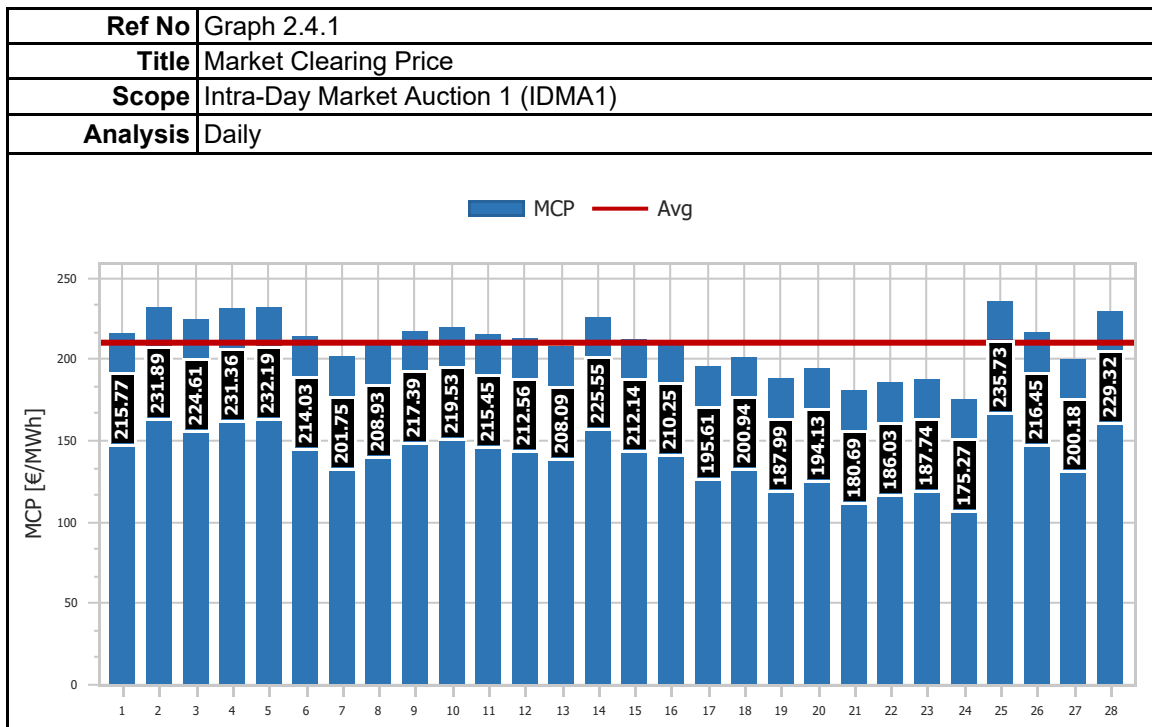
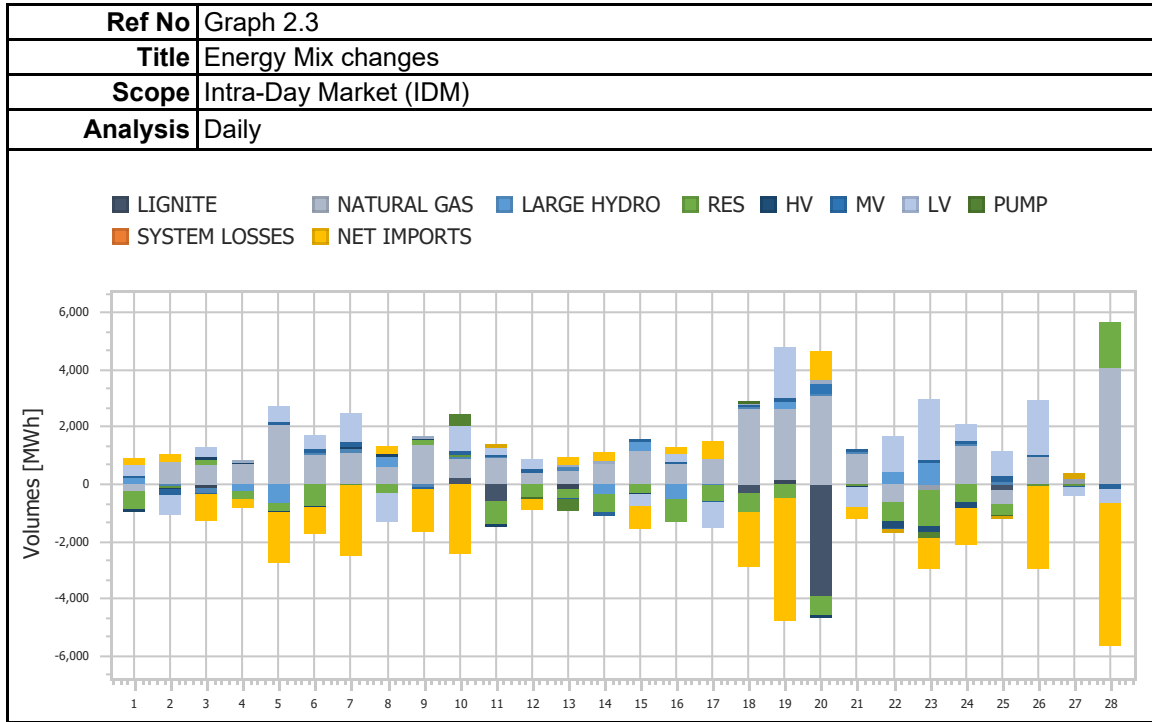
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Title	Exports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Monthly



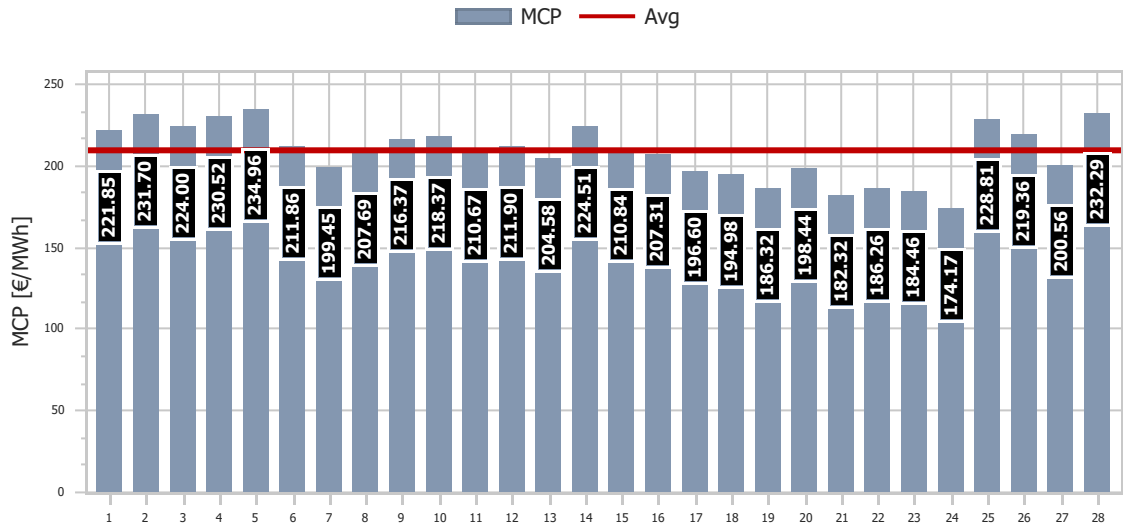


2. Intra-Day Market (IDM)

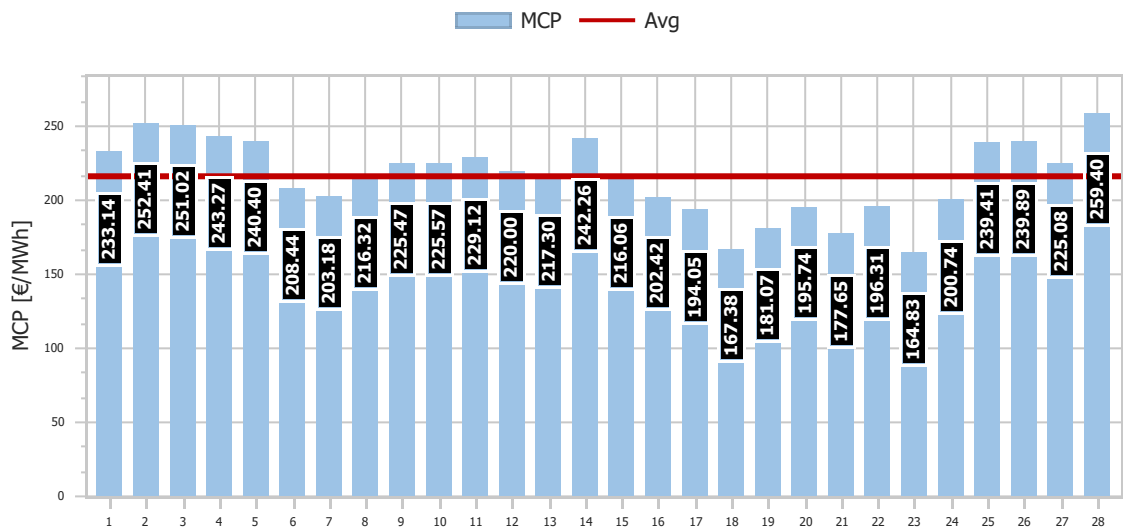




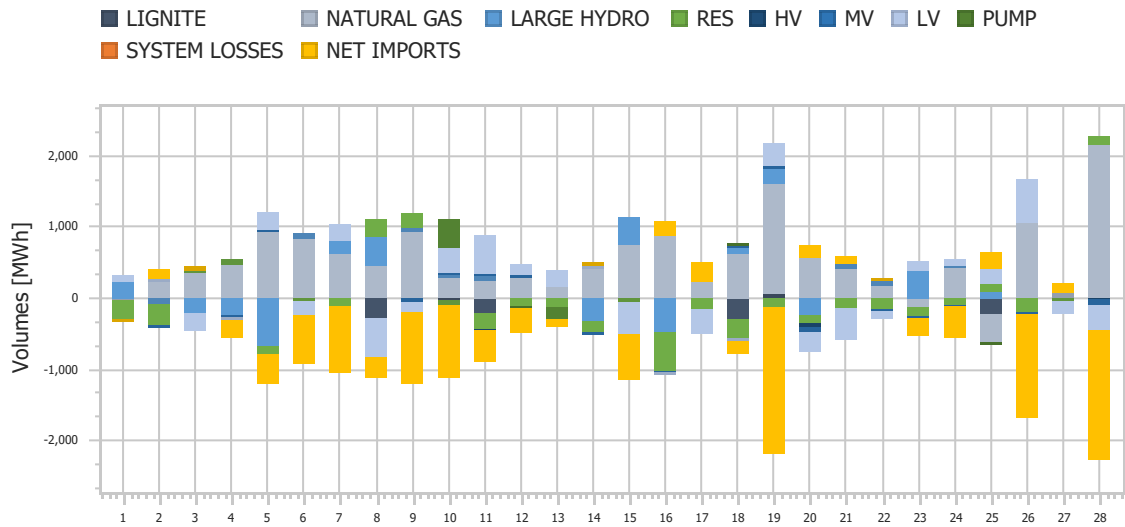
Ref No	Graph 2.4.2
Title	Market Clearing Price
Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



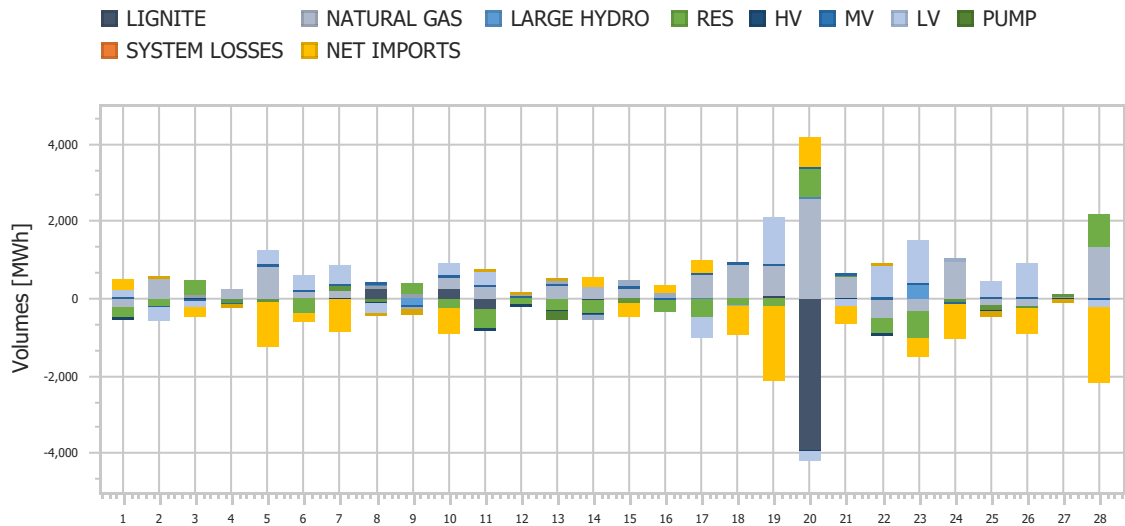
Ref No	Graph 2.4.3
Title	Market Clearing Price
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily



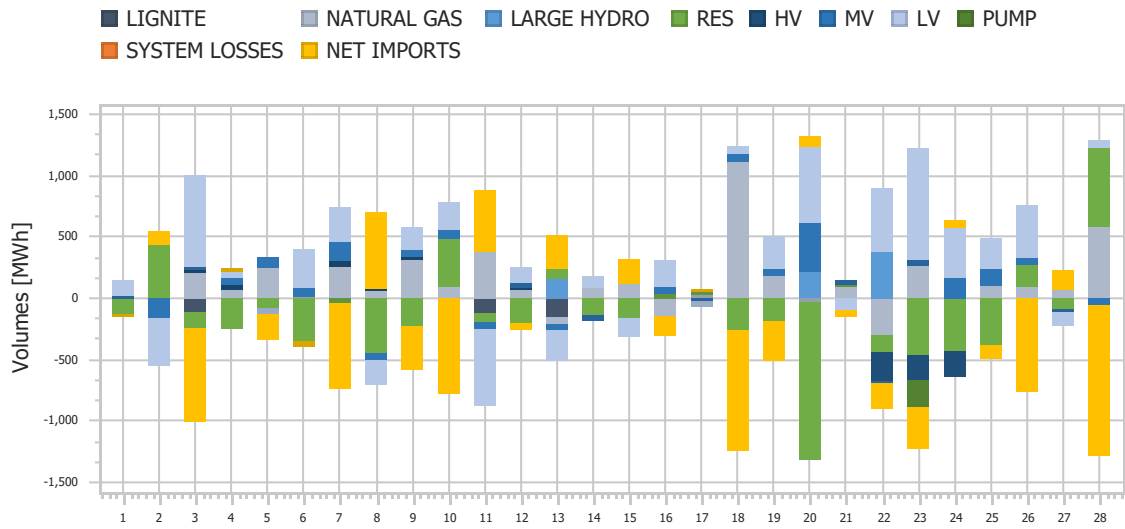
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Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 1 (IDMA1)
Analysis	Daily



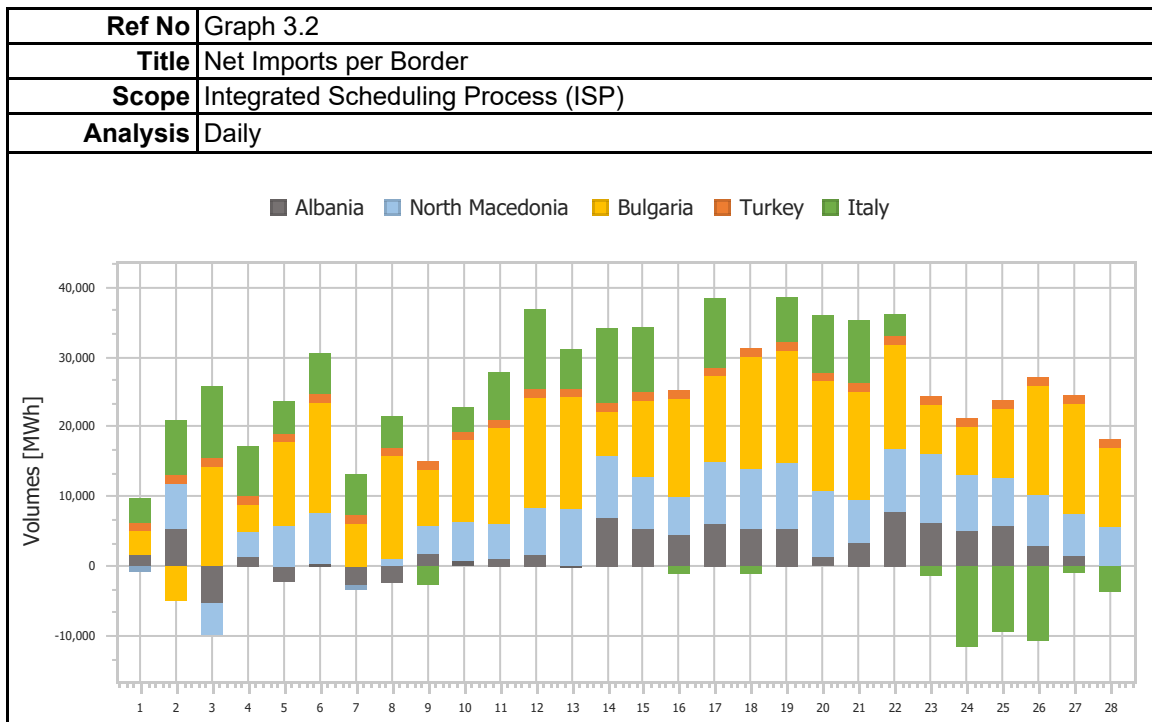
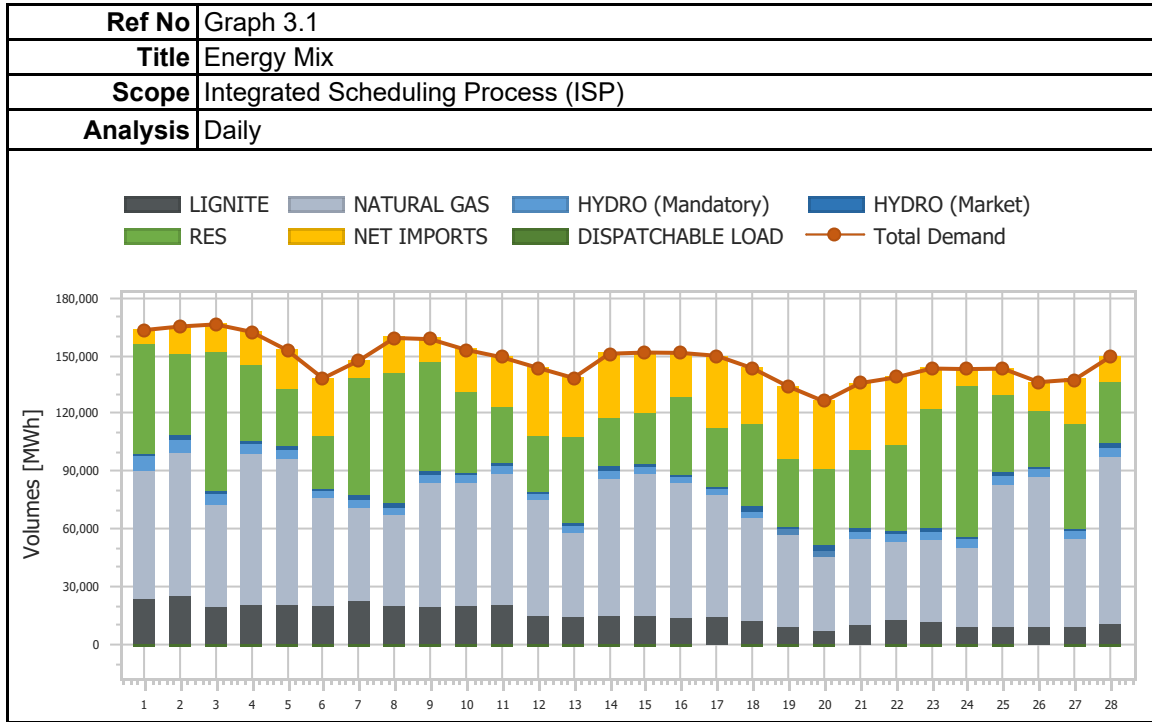
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Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



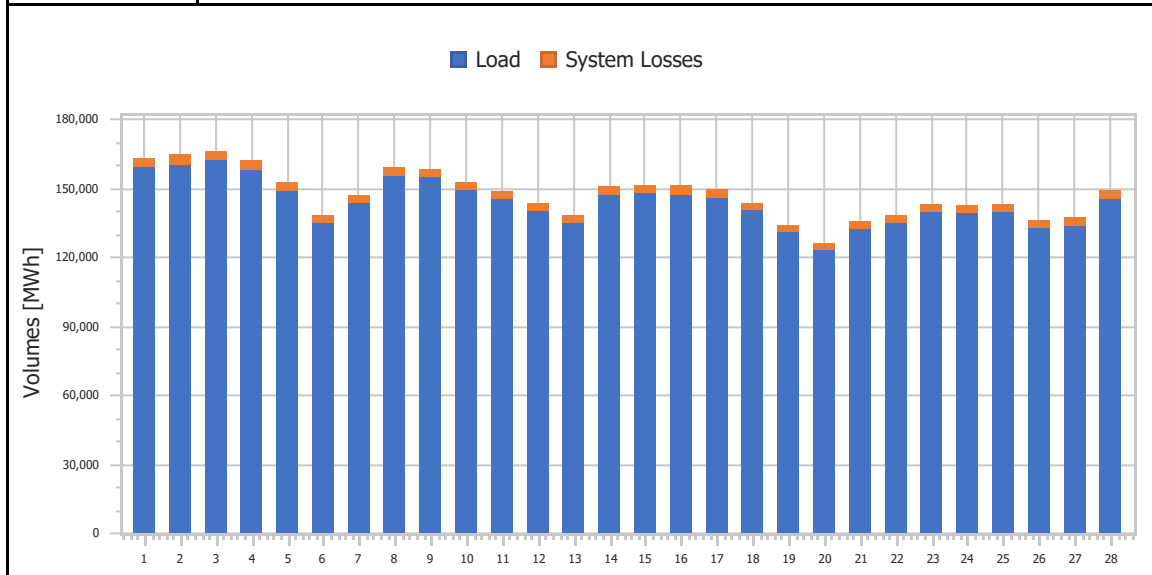
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Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily



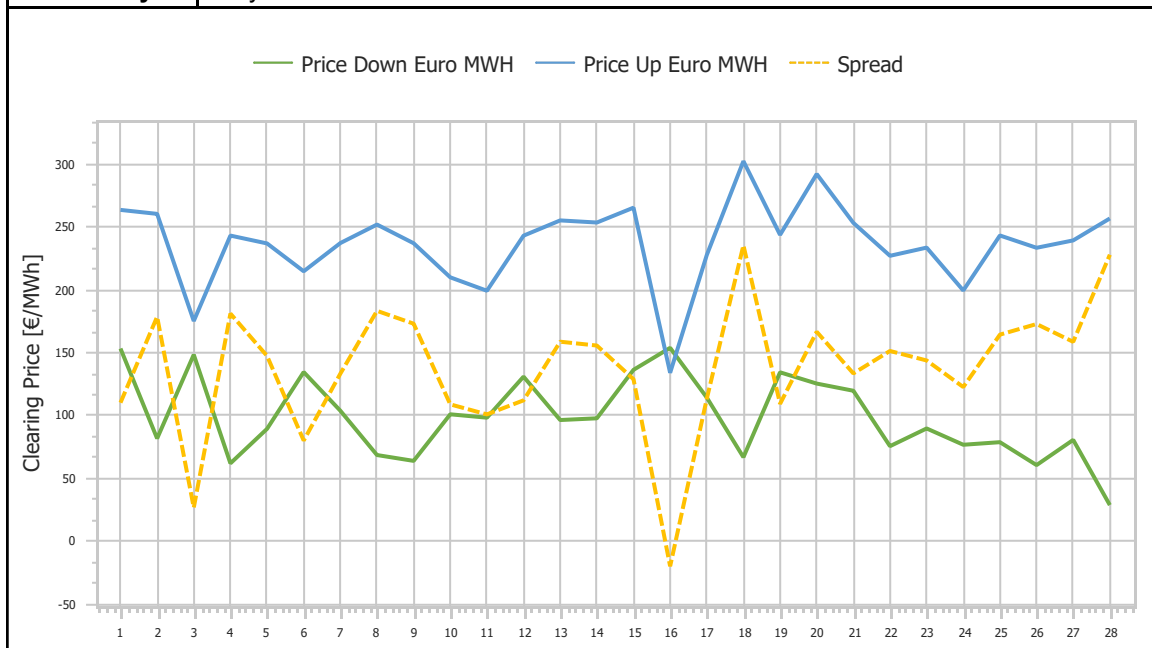
3. Integrated Scheduling Process (ISP)



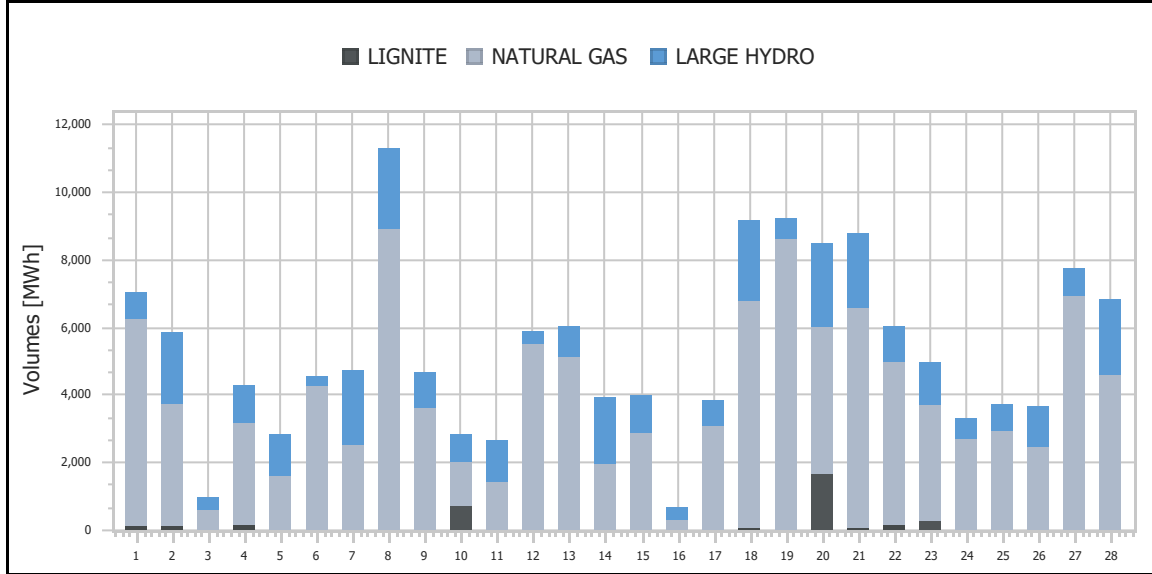
Ref No	Graph 3.3
Title	Demand & System Losses
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



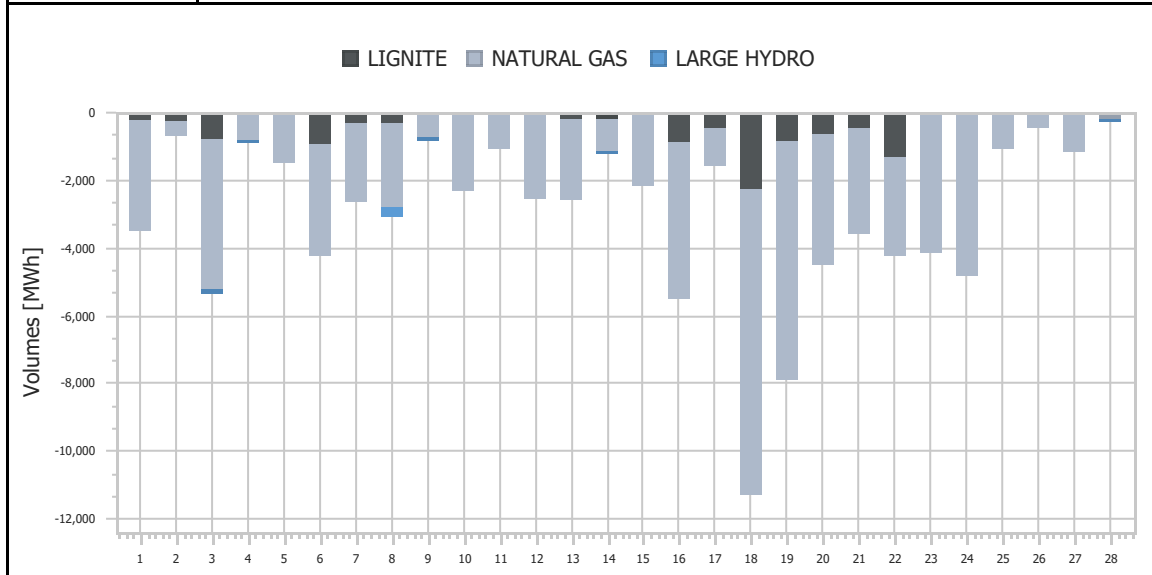
Ref No	Graph 3.4
Title	Clearing Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



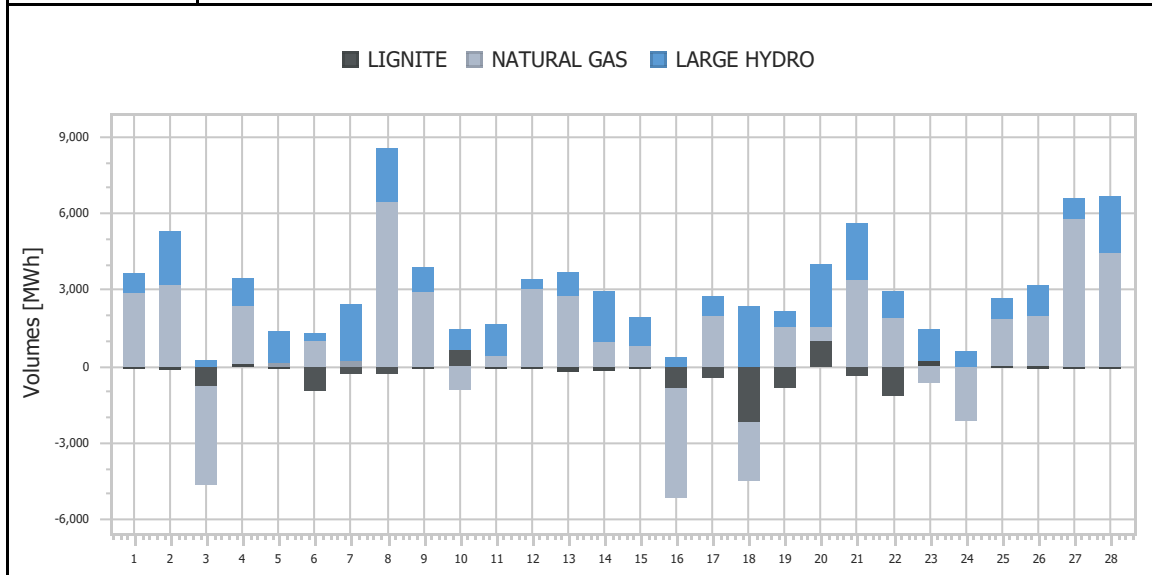
Ref No	Graph 3.5
Title	Upward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



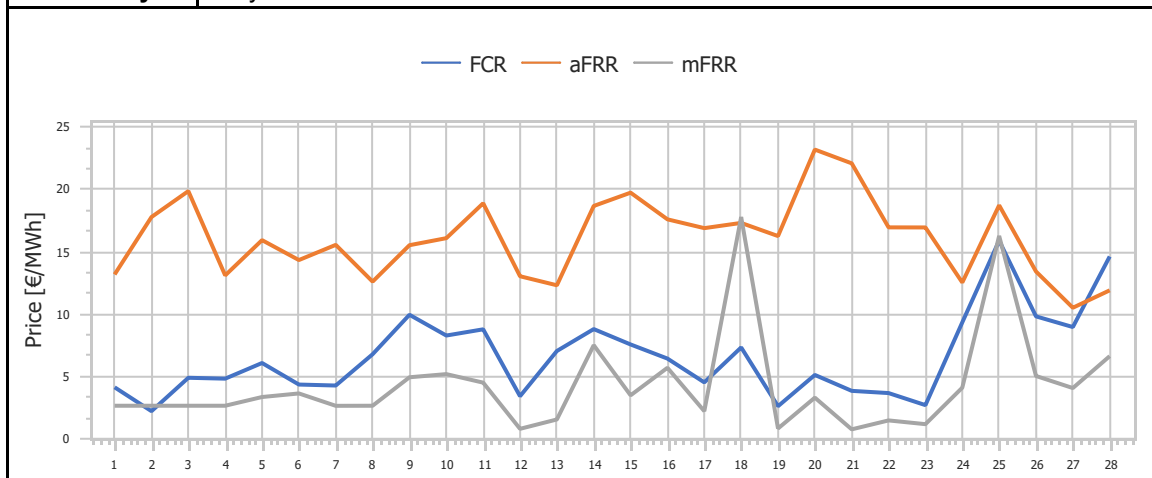
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Title	Downward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



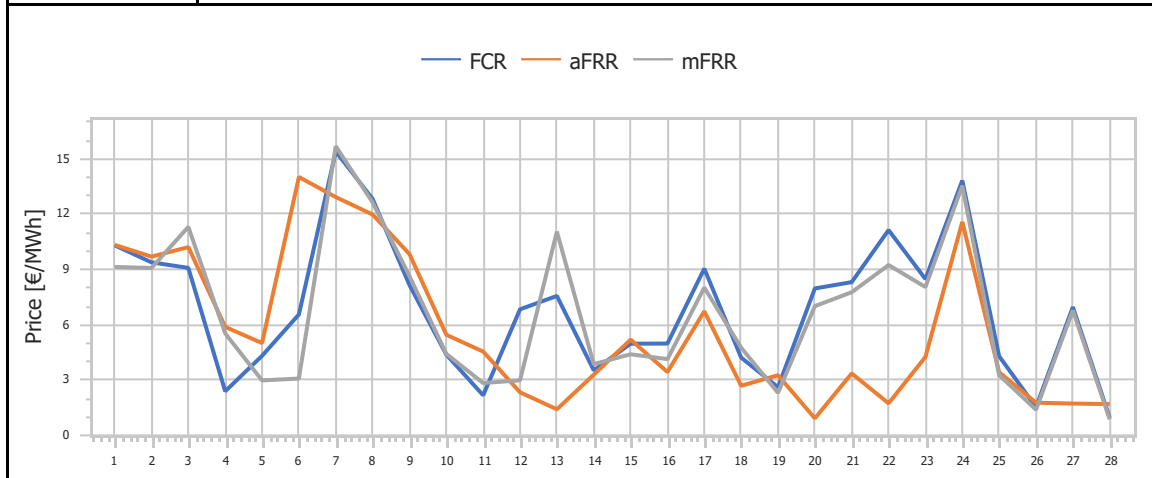
Ref No	Graph 3.7
Title	Net Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



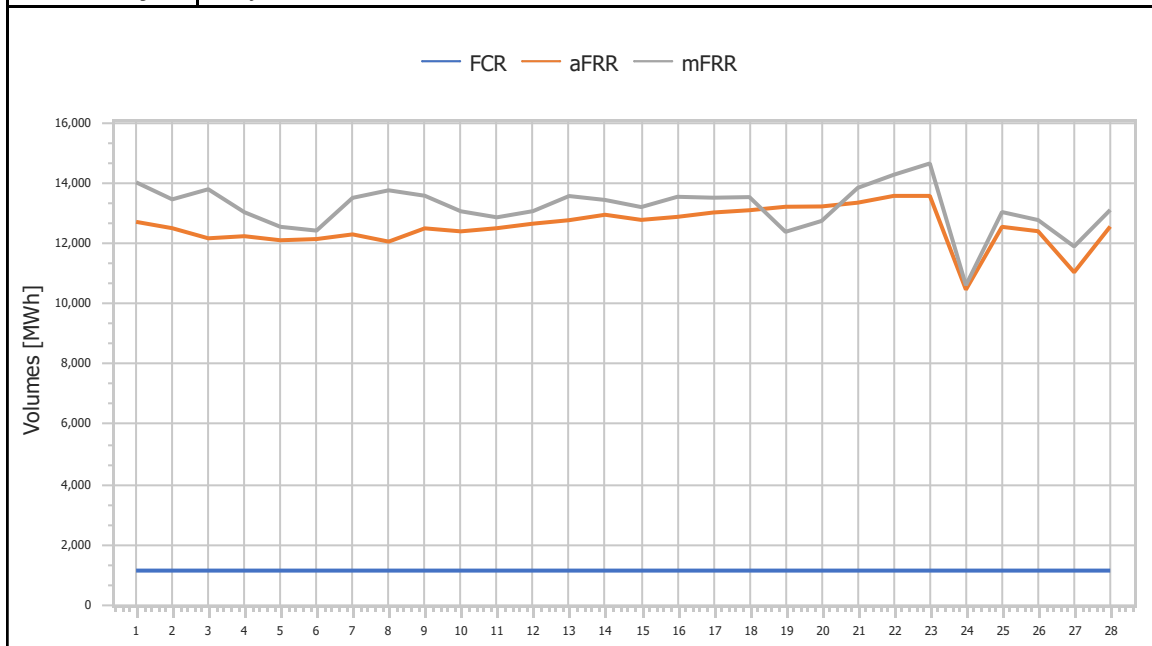
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Title	Upward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

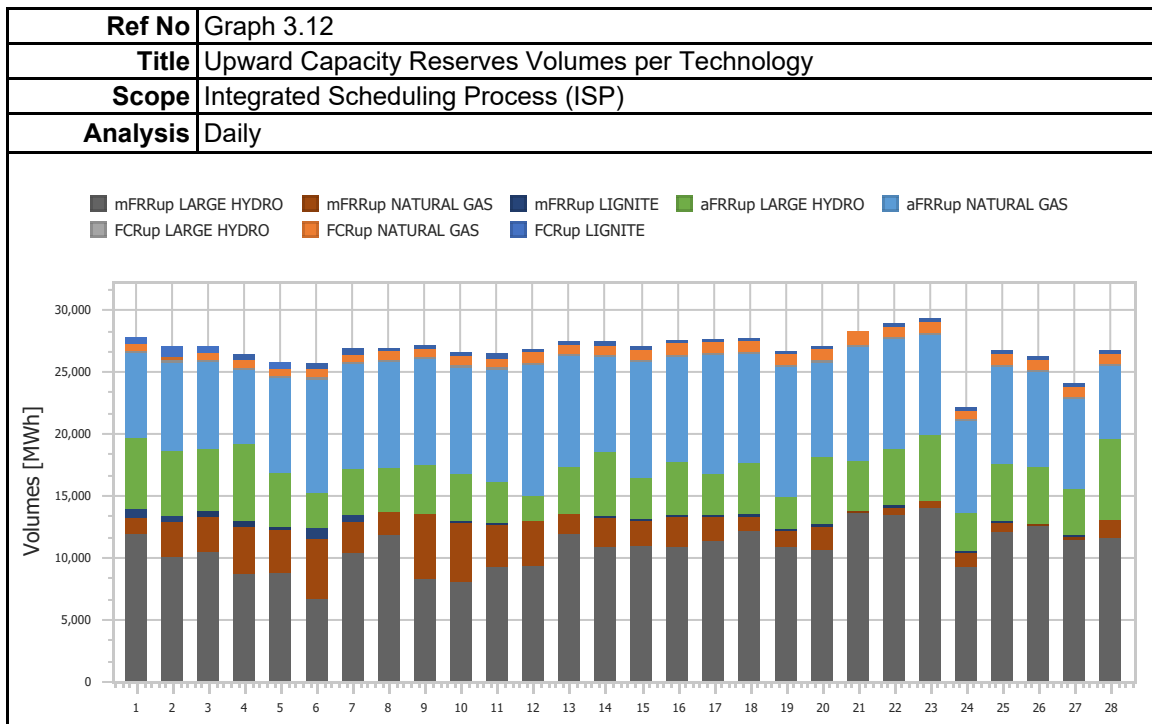
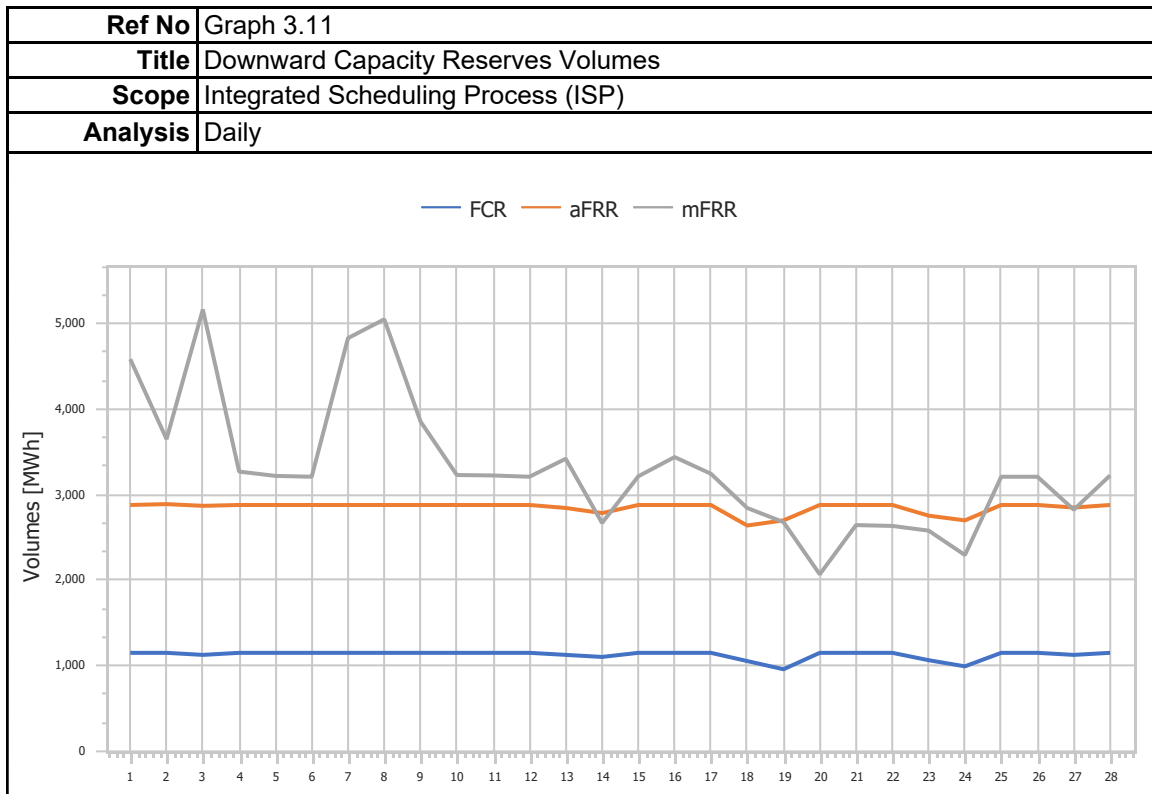


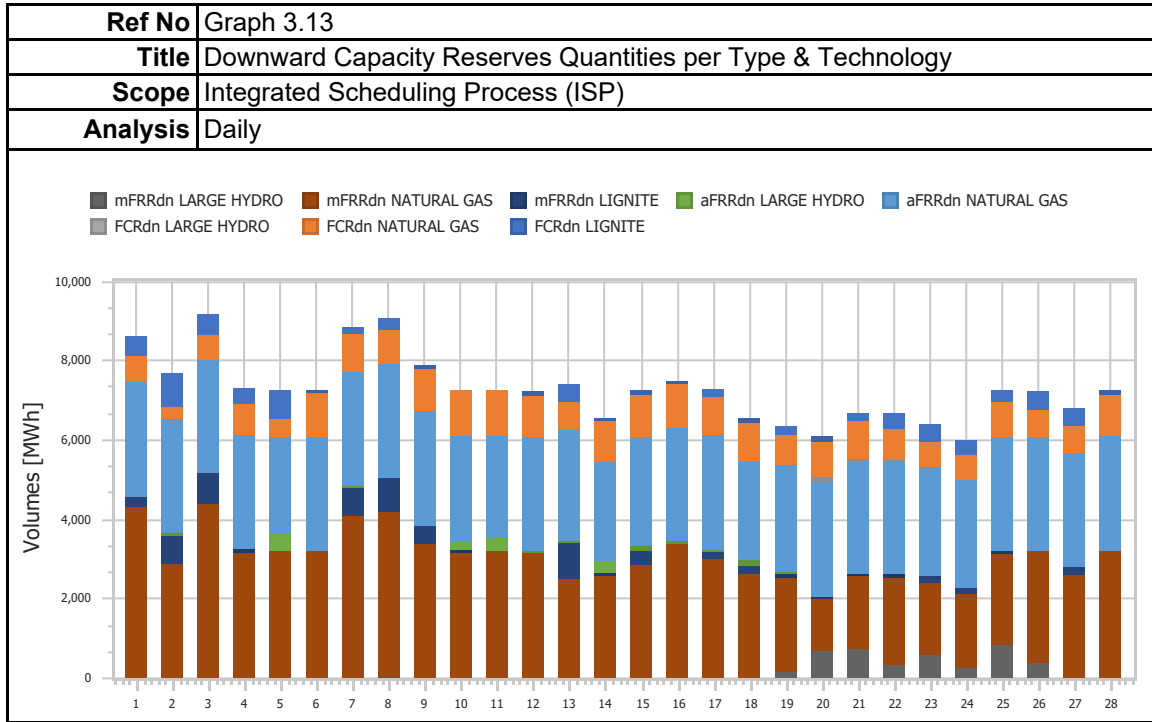
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Title	Downward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



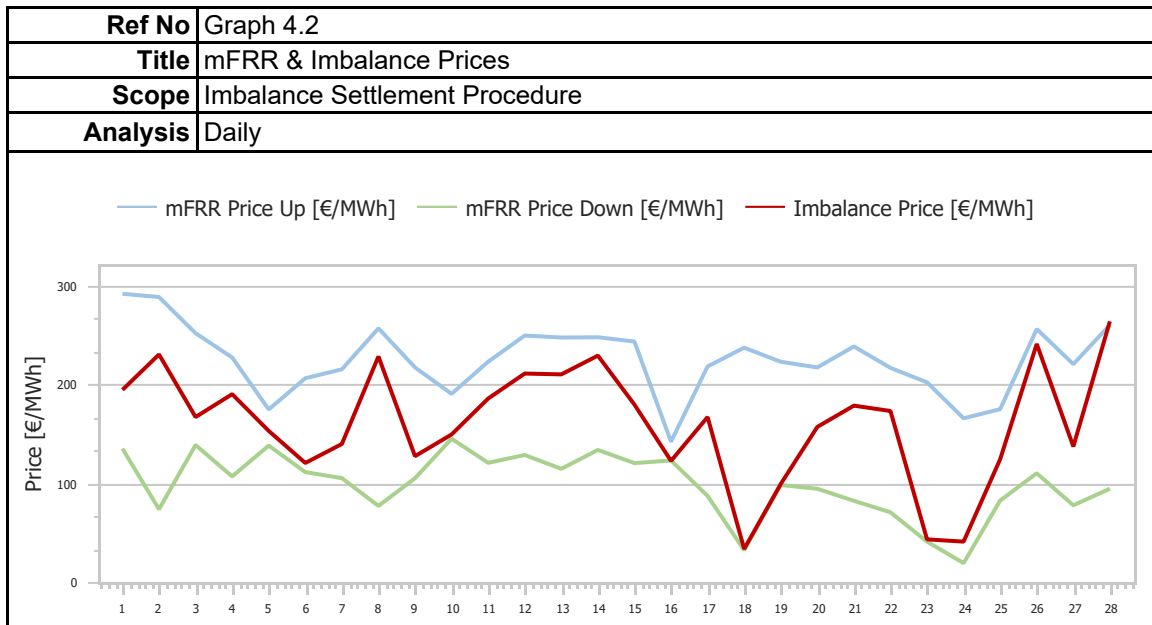
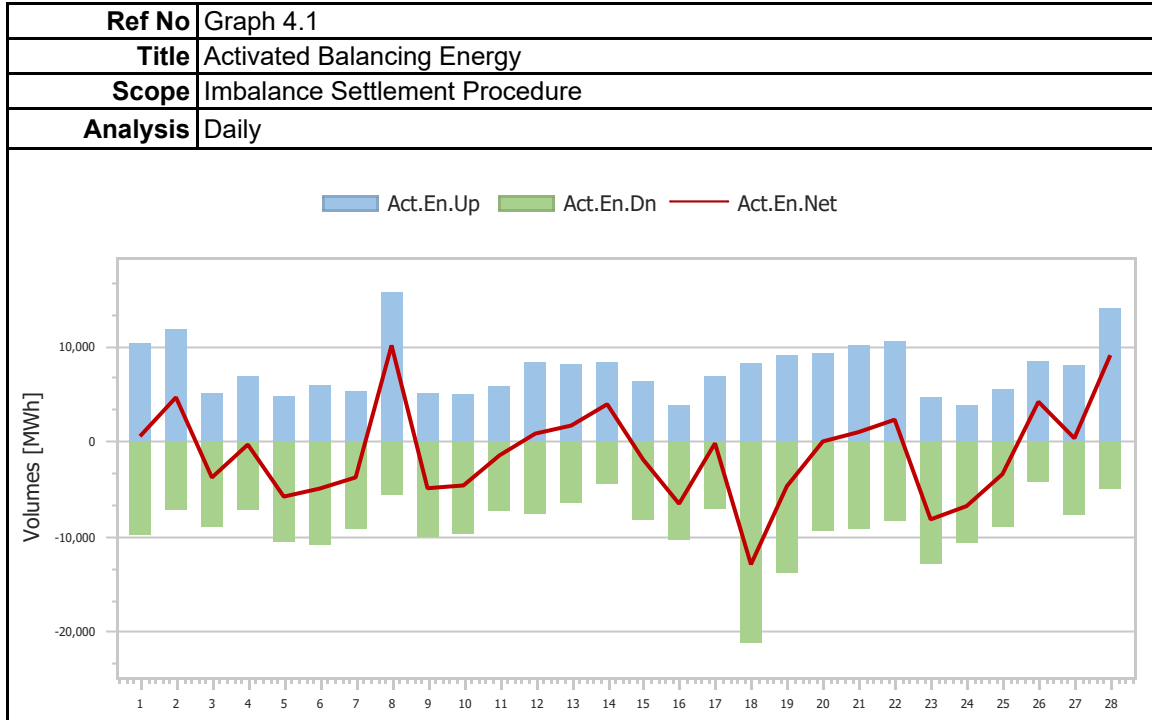
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Title	Upward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



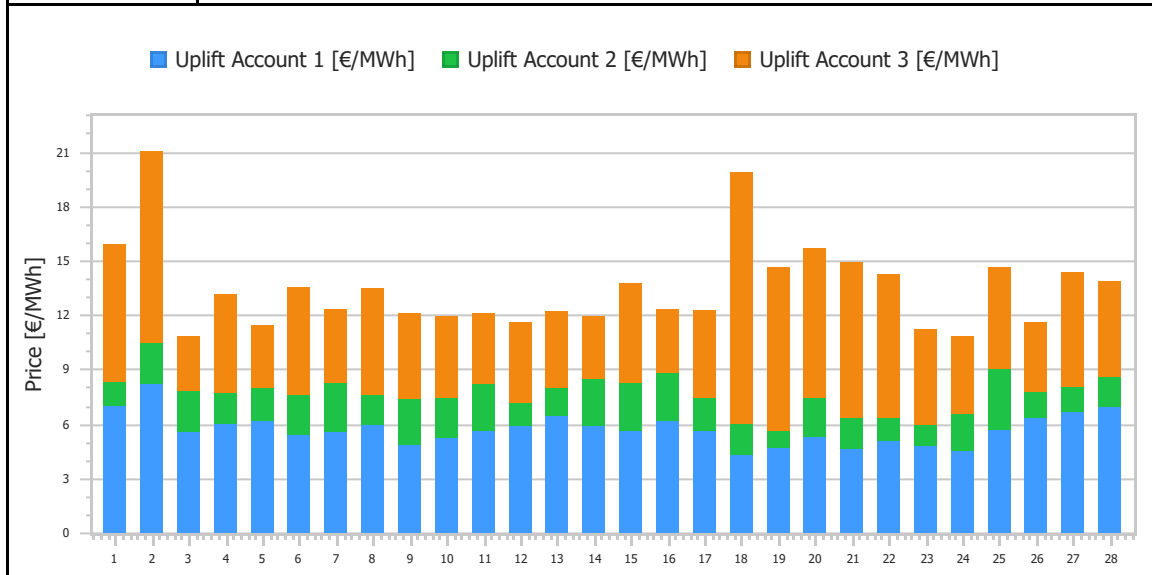




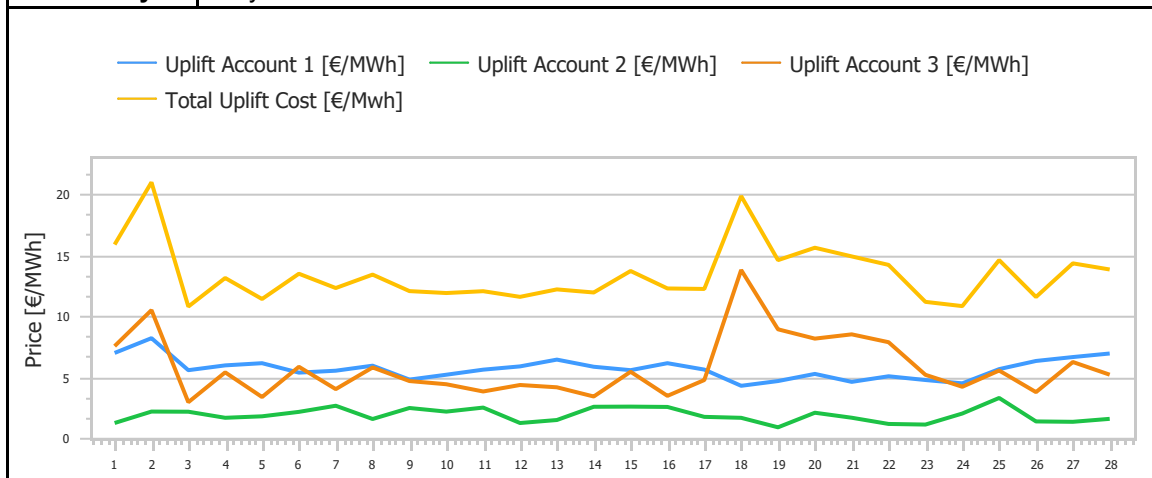
4. Imbalance Settlement Procedure



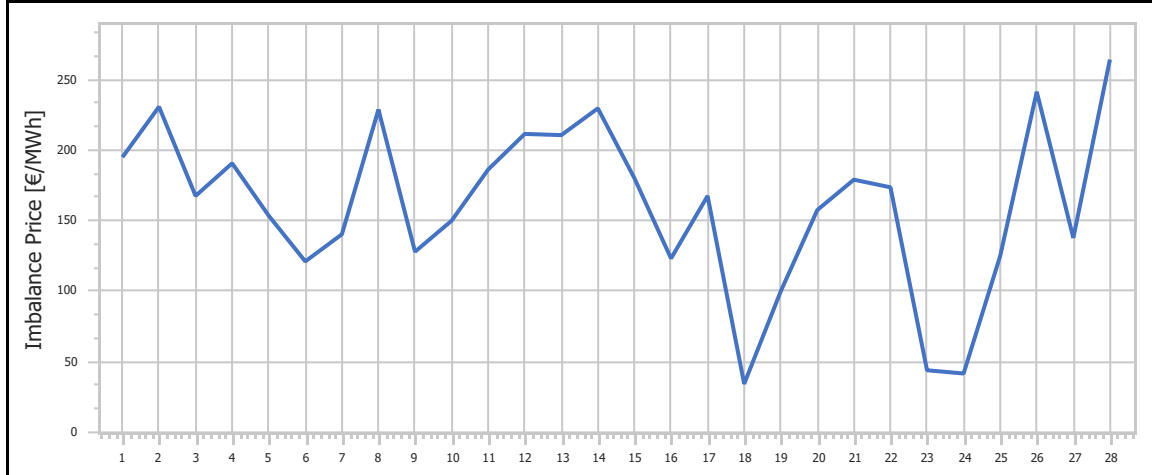
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



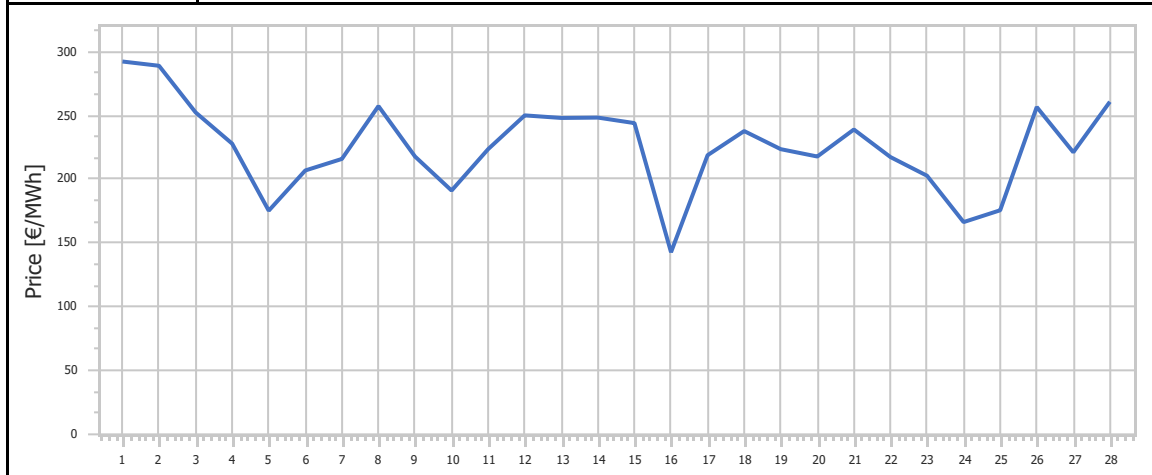
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



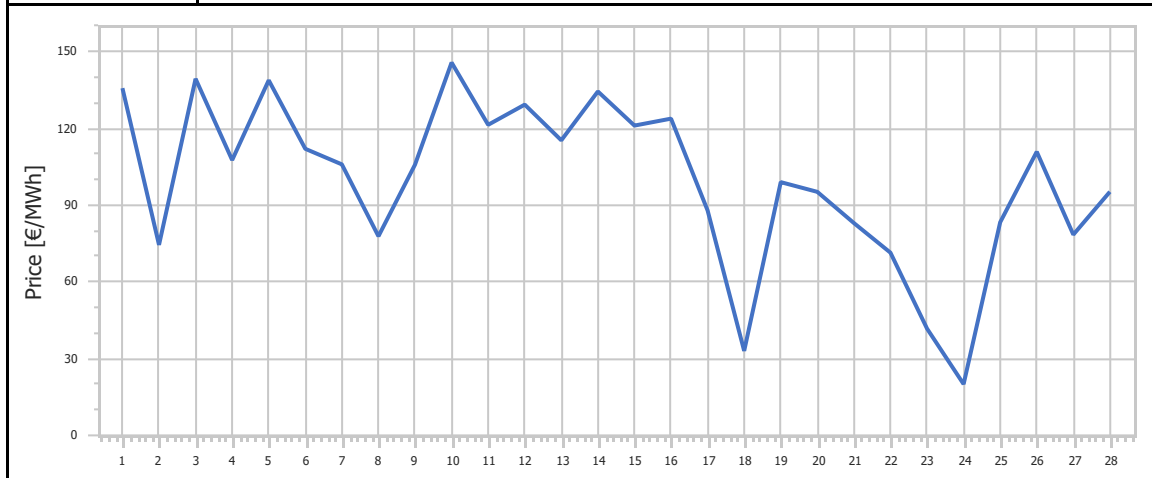
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Title	Imbalance Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



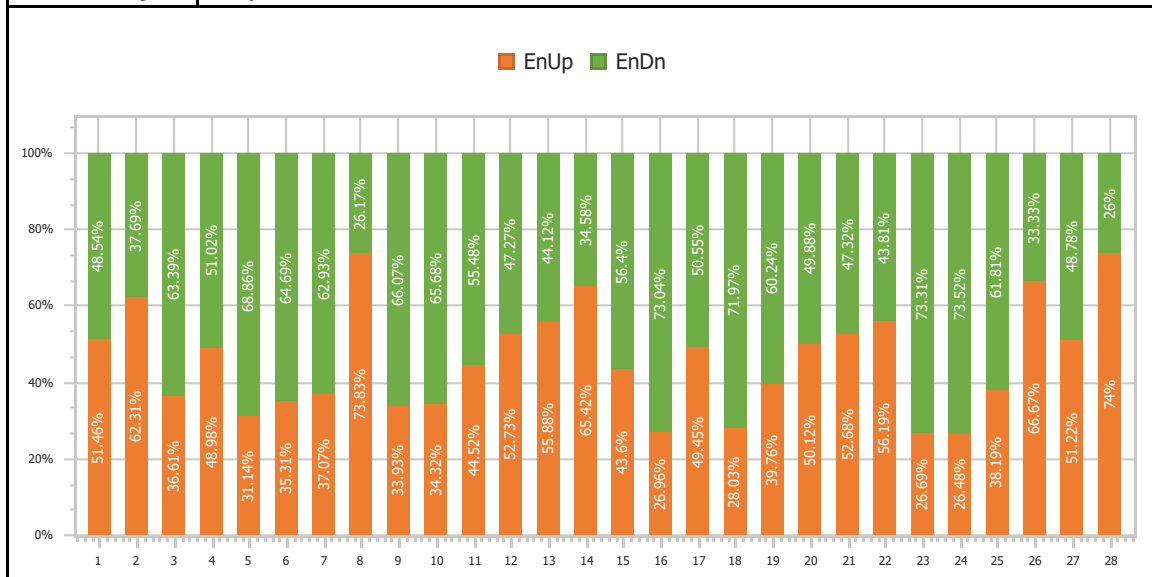
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Title	mFRR Up Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



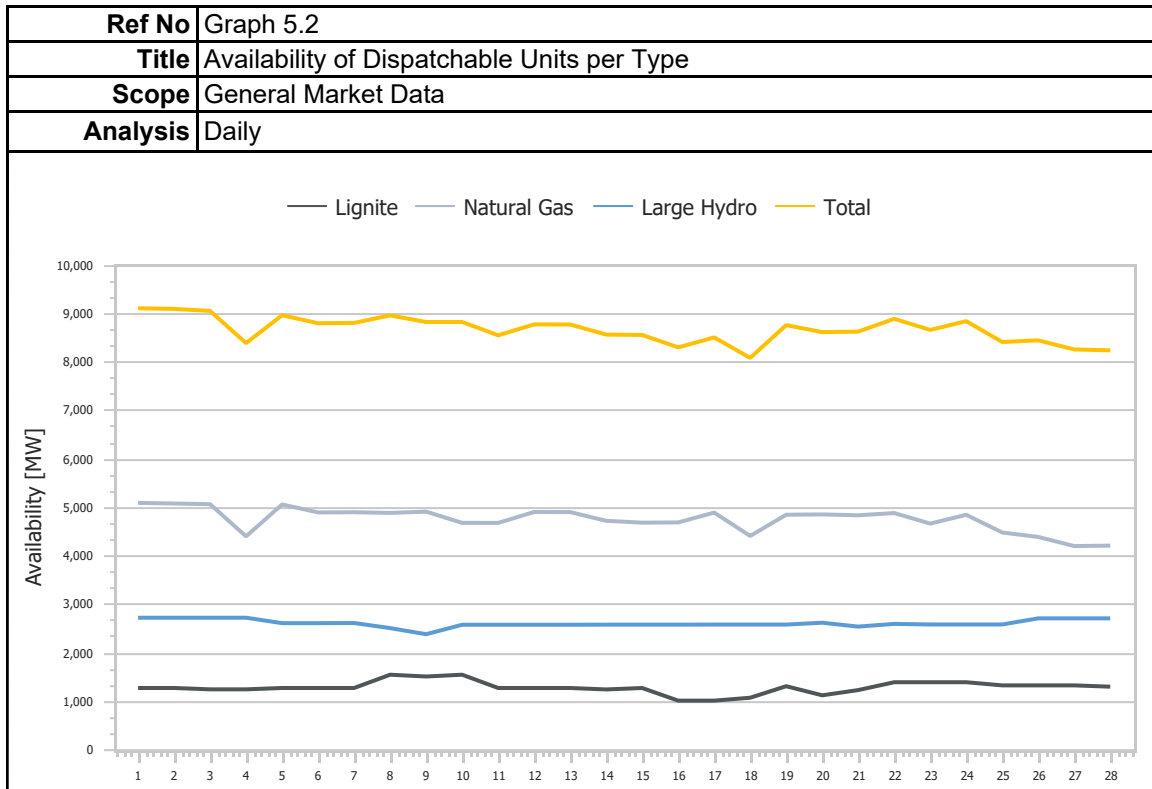
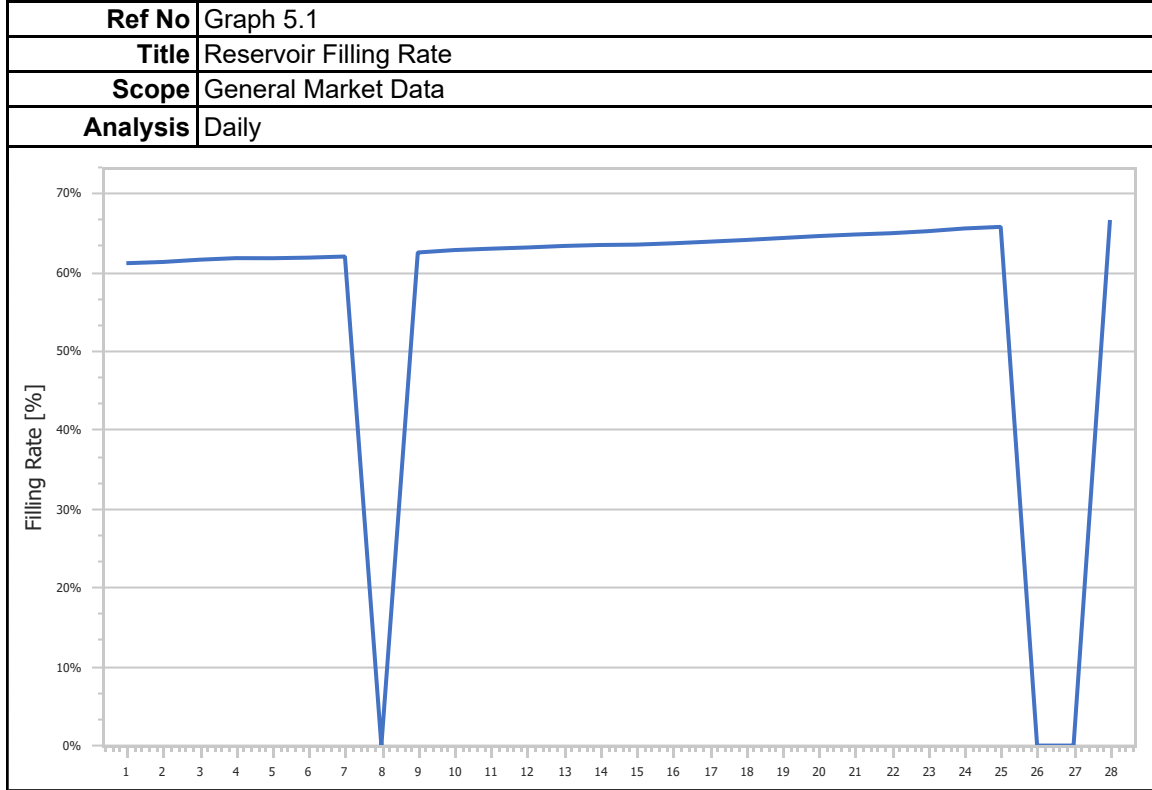
Ref No	Graph 4.7
Title	mFRR Down Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



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	443,170.873	9.66%	95,531,317.77€	9.66%
Crete Conventional	159,162.950	3.47%	34,353,885.58€	3.47%
Natural Gas	1,606,762.522	35.01%	358,894,437.73€	36.28%
Large Hydro	133,903.368	2.92%	32,958,614.10€	3.33%
RES	1,265,062.963	27.56%	260,566,875.86€	26.34%
Crete Renewables	47,358.000	1.03%	10,155,453.39€	1.03%
Imports	934,380.820	20.36%	196,754,209.97€	19.89%
Total	4,589,801.491	100.00%	989,214,794.40€	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	-	4,589,801.49	443,170.87	159,162.95	1,606,762.52	133,903.37	1,265,062.96	47,358.00	934,380.82
Average	211.71	163,921.48	15,827.53	5,684.39	57,384.38	4,782.26	45,180.82	1,691.36	33,370.74
Min	175.61	138,725.72	9,024.00	4,684.65	34,895.24	3,310.62	26,112.41	587.00	22,683.30
Min day	24	20	27	9	20	21	14	6	7
Max	237.23	194,135.43	25,184.00	6,829.50	79,101.90	7,952.00	79,682.28	2,793.00	46,464.26
Max day	2	3	2	3	28	1	24	24	19
Spread	61.61	55,409.71	16,160.00	2,144.85	44,206.66	4,641.38	53,569.88	2,206.00	23,780.96
Standard Deviation	16.65	12,784.99	4,965.66	618.46	13,856.81	1,209.77	14,820.99	704.73	6,369.16

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	97,284.000	2.12%	21,014,446.58€	2.12%
Crete Load	228,572.000	4.98%	49,668,244.73€	5.02%
HV Load	549,968.720	11.98%	116,076,211.35€	11.73%
MV Load	790,847.095	17.23%	169,162,537.27€	17.10%
LV Load	2,679,615.810	58.38%	581,535,876.70€	58.79%
PUMP	11,336.349	0.25%	1,980,337.14€	0.20%
Exports	232,177.300	5.06%	49,777,090.17€	5.03%
Total	4,589,801.276	100.00%	989,214,743.95€	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	-	4,589,801.28	97,284.00	228,572.00	549,968.72	790,847.10	2,679,615.81	11,336.35	232,177.30
Average	211.71	163,921.47	3,474.43	8,163.29	19,641.74	28,244.54	95,700.56	472.35	8,292.05
Min	175.61	138,725.71	2,719.50	6,706.00	18,930.43	20,126.80	82,542.90	125.00	2,192.00
Min day	24	20	20	20	10	27	20	6	15
Max	237.23	194,135.58	4,461.50	9,880.00	21,247.81	33,430.16	113,664.39	1,250.00	14,180.66
Max day	2	3	2	3	19	3	3	10	1
Spread	61.61	55,409.87	1,742.00	3,174.00	2,317.38	13,303.36	31,121.49	1,125.00	11,988.66
Standard Deviation	16.65	12,785.03	388.08	769.10	730.86	4,004.06	7,261.34	259.70	3,450.81

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	1,360,824.990	69.74%	4,803,728.30€	76.51%
FCR	114,740.360	5.88%	221,587.12€	3.53%
mFRR	475,801.220	24.38%	1,253,459.43€	19.96%
Total	1,951,366.560	100.00%	6,278,774.85€	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	312,454.240	39.84%	572,381.44€	34.05%
FCR	119,469.680	15.23%	281,928.29€	16.77%
mFRR	352,445.080	44.93%	826,736.20€	49.18%
Total	784,369.000	100.00%	1,681,045.93€	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	80,389.480	37.36%	21,761,404.36€	37.80%
mFRR	134,803.950	62.64%	35,812,774.03€	62.20%
Total	215,193.430	100.00%	57,574,178.39€	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	83,669.310	33.50%	7,040,704.18€	32.00%
mFRR	166,086.740	66.50%	14,964,037.13€	68.00%
Total	249,756.050	100.00%	22,004,741.31€	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	4,589,801.49	98.53%
IDMA1	40,310.83	0.87%
IDMA2	38,726.85	0.83%
IDMA3	24,097.51	0.52%
IDM (Total)	103,135.20	2.21%
Balancing Energy (Up)	215,193.43	4.62%
Balancing Energy (Dn)	249,756.05	5.36%
Balancing Energy (Total)	-34,562.62	-0.74%
Total	4,658,374.07	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	989,214,794.40€	93.77%
IDMA1	8,933,399.38€	0.85%
IDMA2	8,073,504.33€	0.77%
IDMA3	5,195,926.13€	0.49%
IDM (Total)	22,202,829.84€	2.10%
Balancing Capacity (Up)	6,278,774.85€	0.60%
Balancing Capacity (Dn)	1,681,045.93€	0.16%
Balancing Capacity (Total)	7,959,820.77€	0.75%
Balancing Energy (Up)	57,574,178.39€	5.46%
Balancing Energy (Dn)	22,004,741.31€	2.09%
Balancing Energy (Total)	35,569,437.08€	3.37%
Balancing Market (Total)	43,529,257.85€	4.13%
Total	1,054,946,882.09€	100.00%