

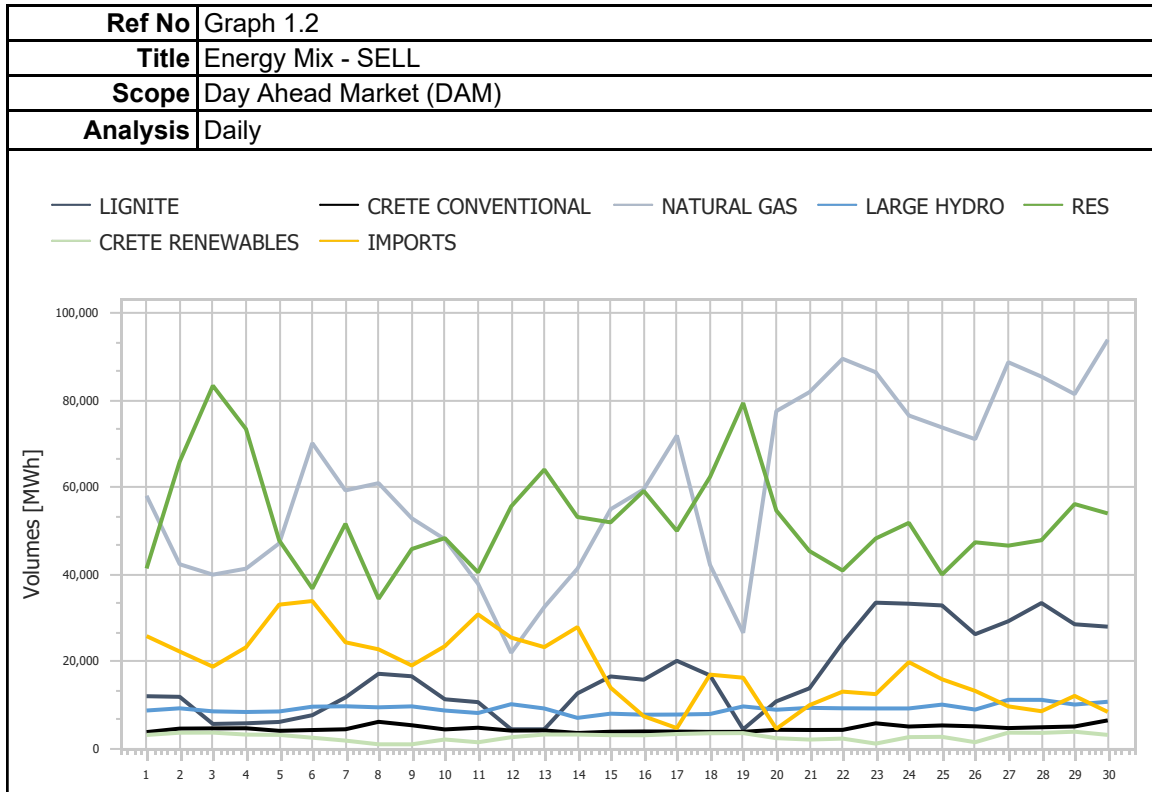
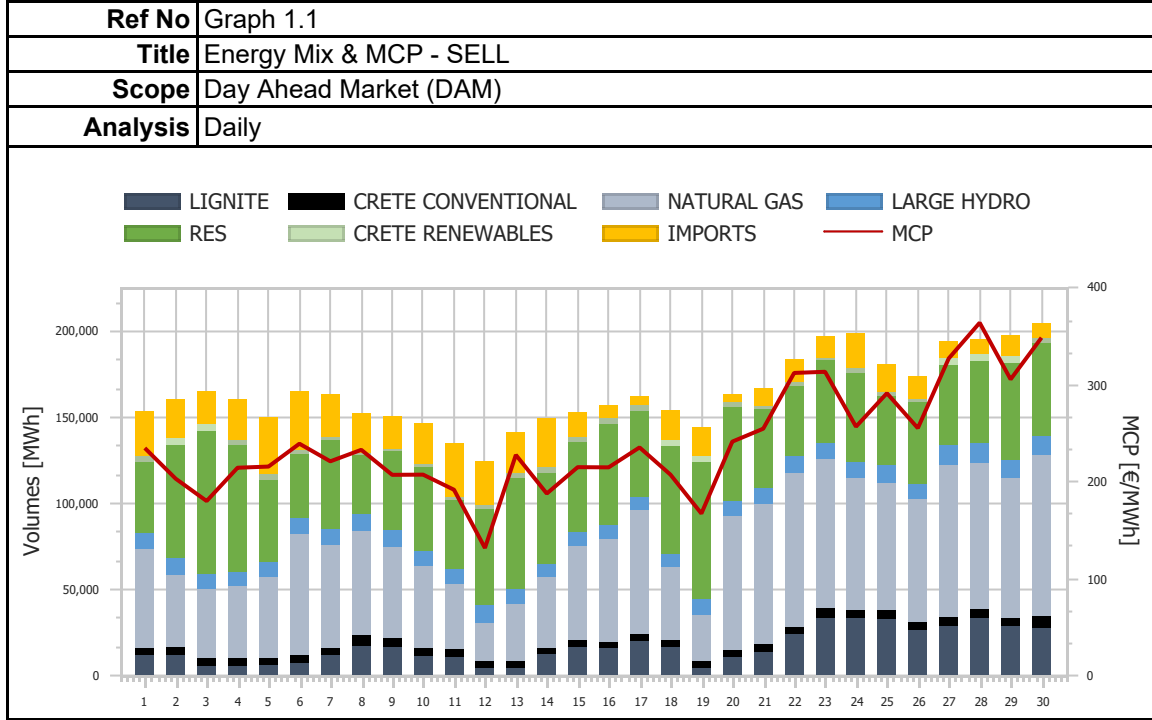
Market Monitoring Report

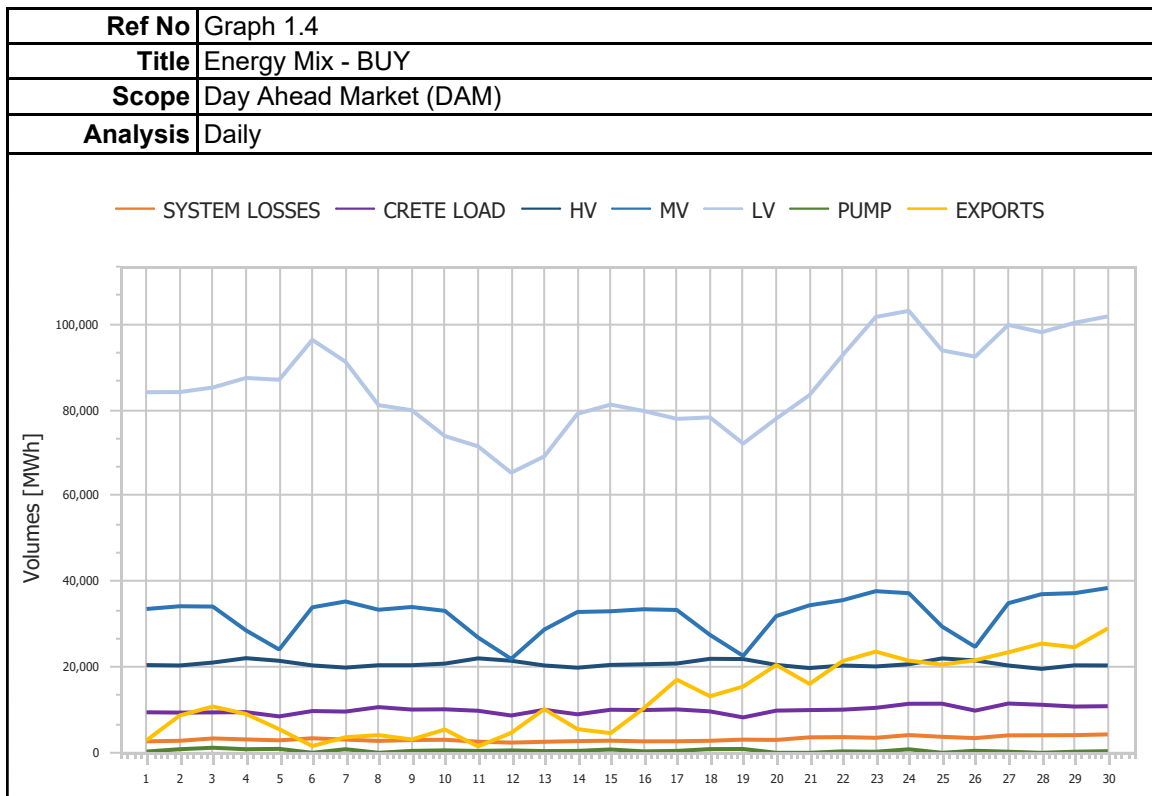
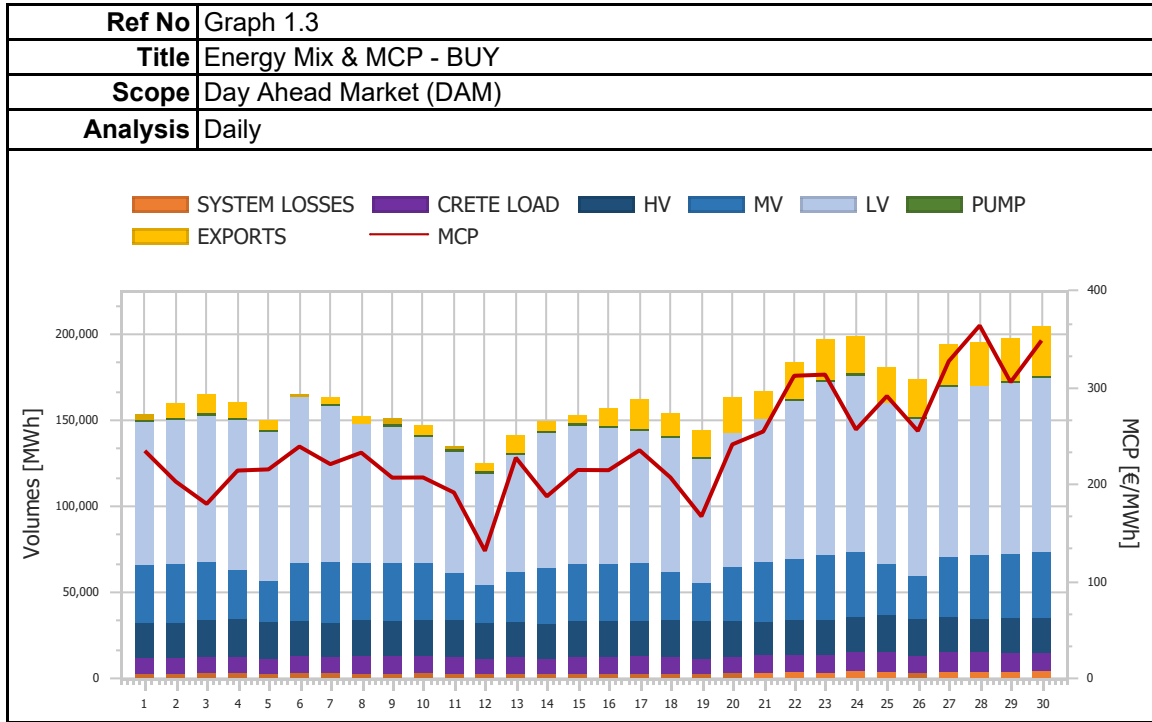
Monthly - Public - 2

06-2022

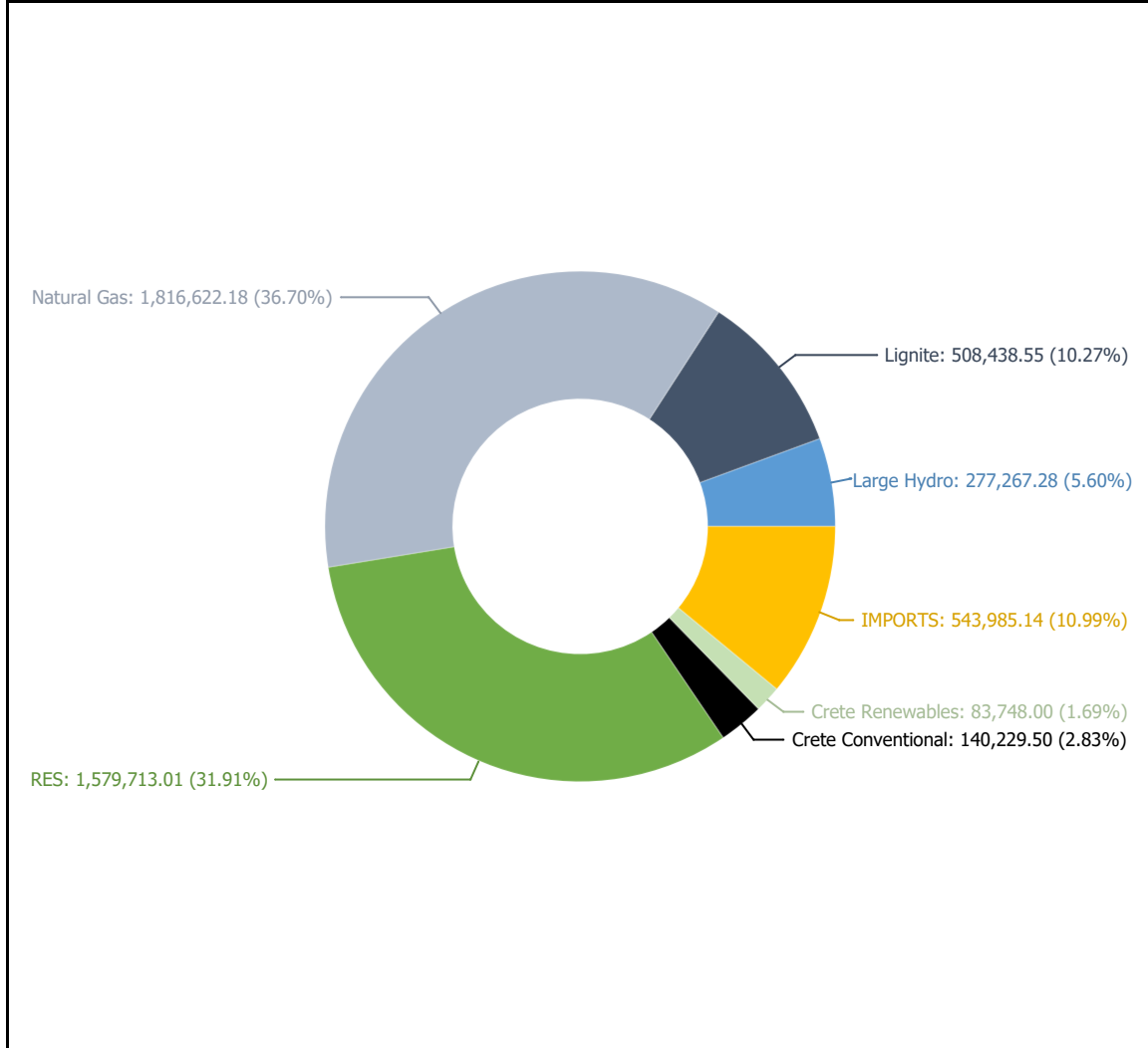


1. Day Ahead Market (DAM)

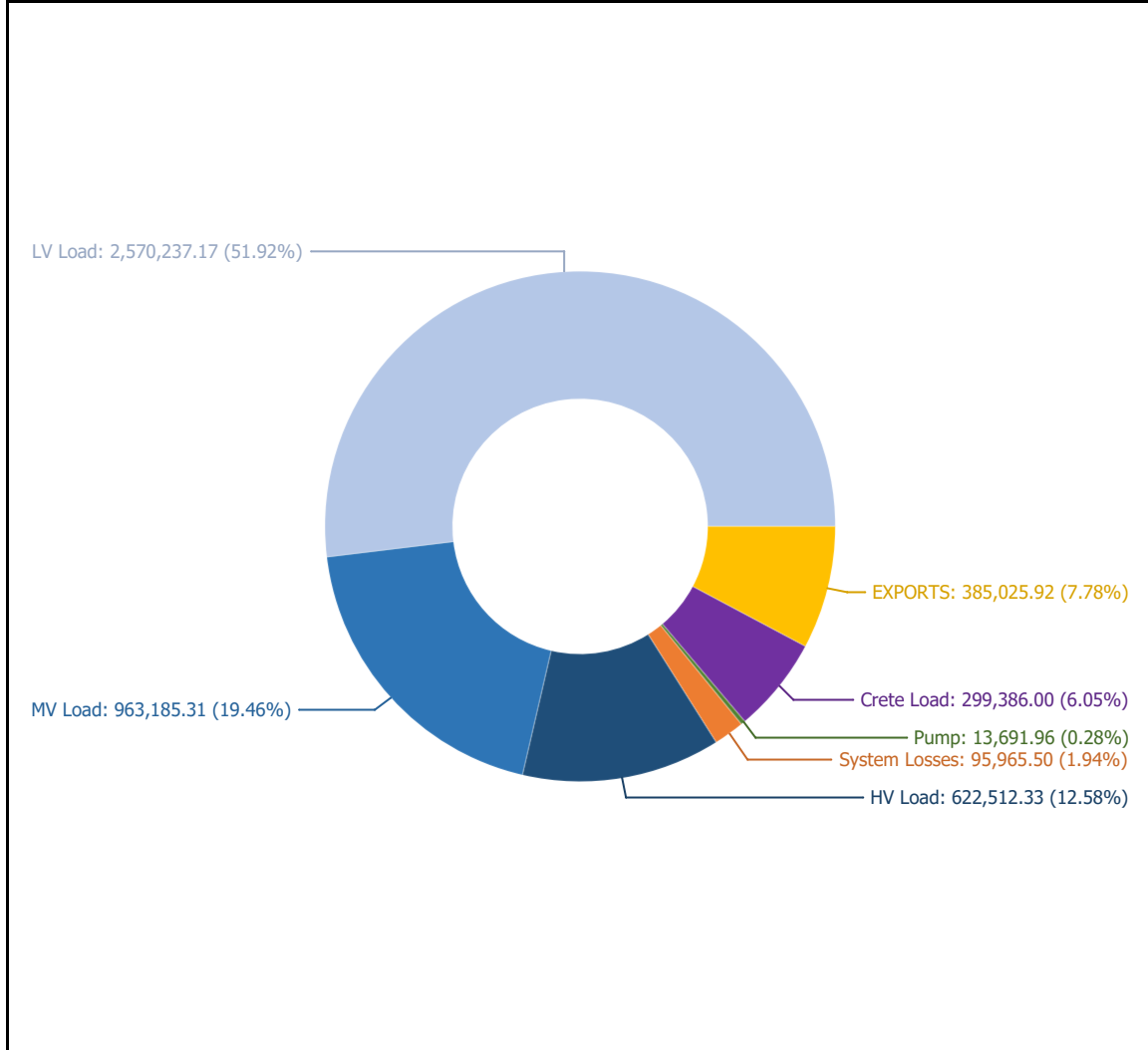


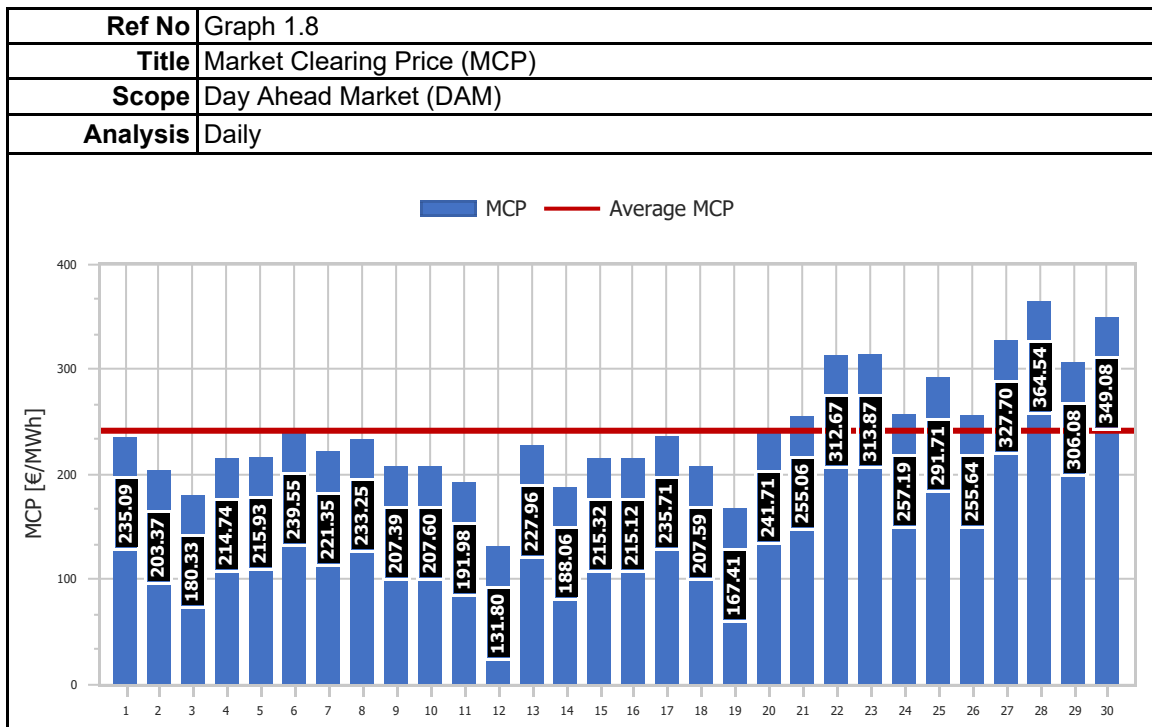
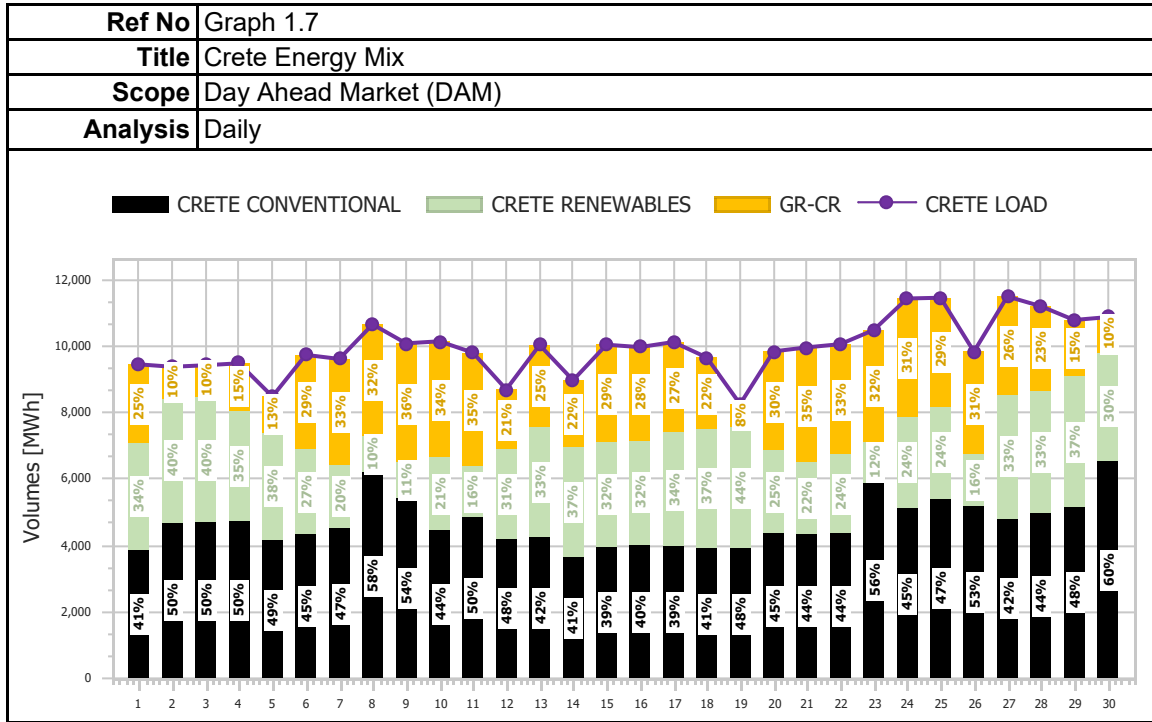


Ref No	Graph 1.5
Title	Energy Mix - SELL
Scope	Day Ahead Market (DAM)
Analysis	Daily

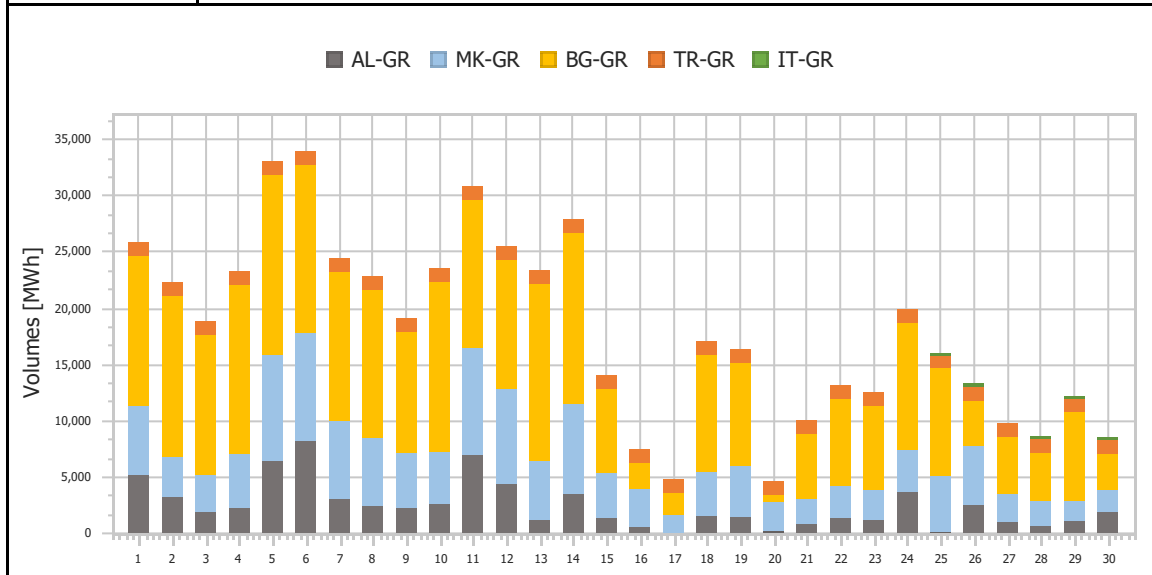


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Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily

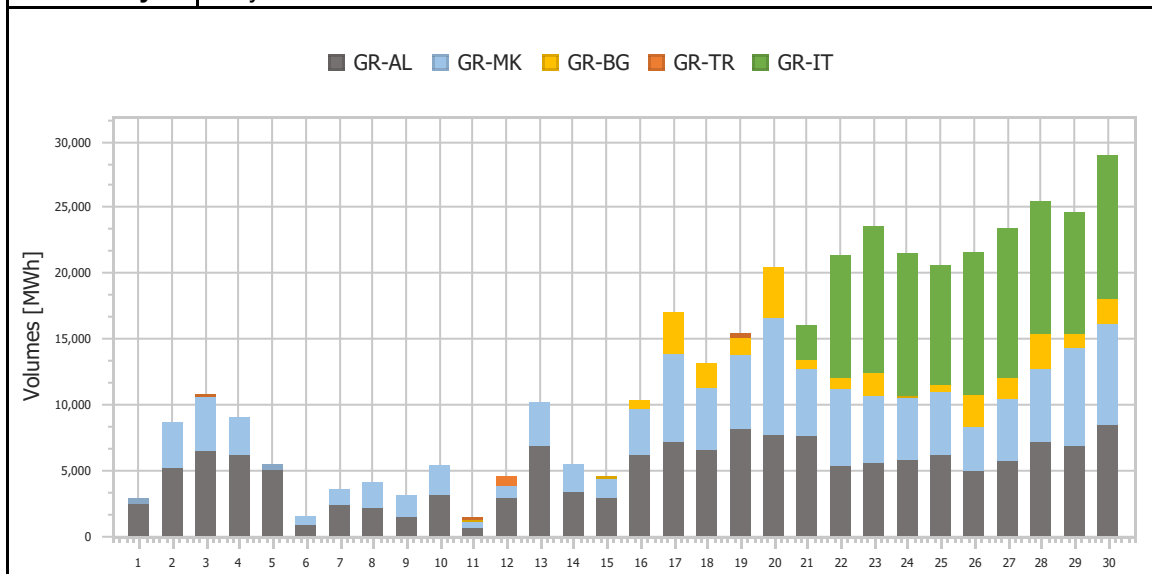




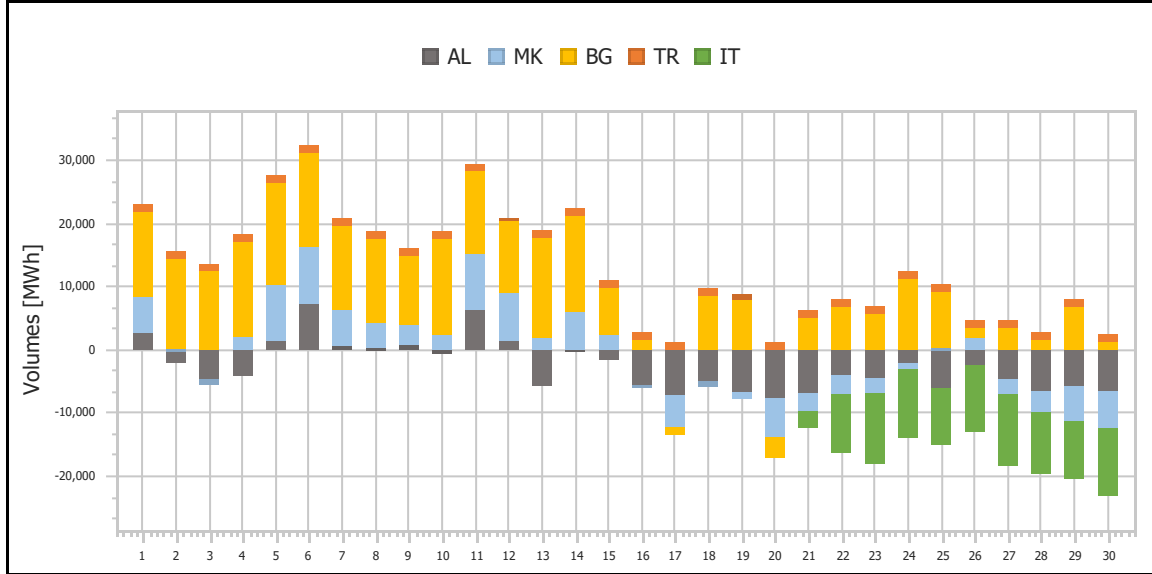
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Title	Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



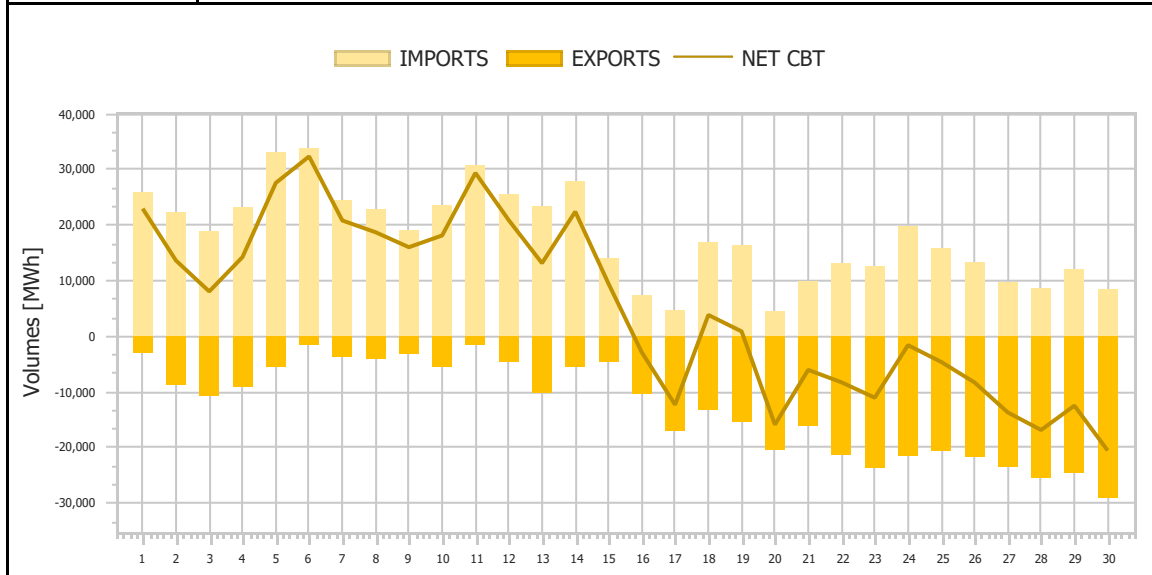
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Title	Exports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



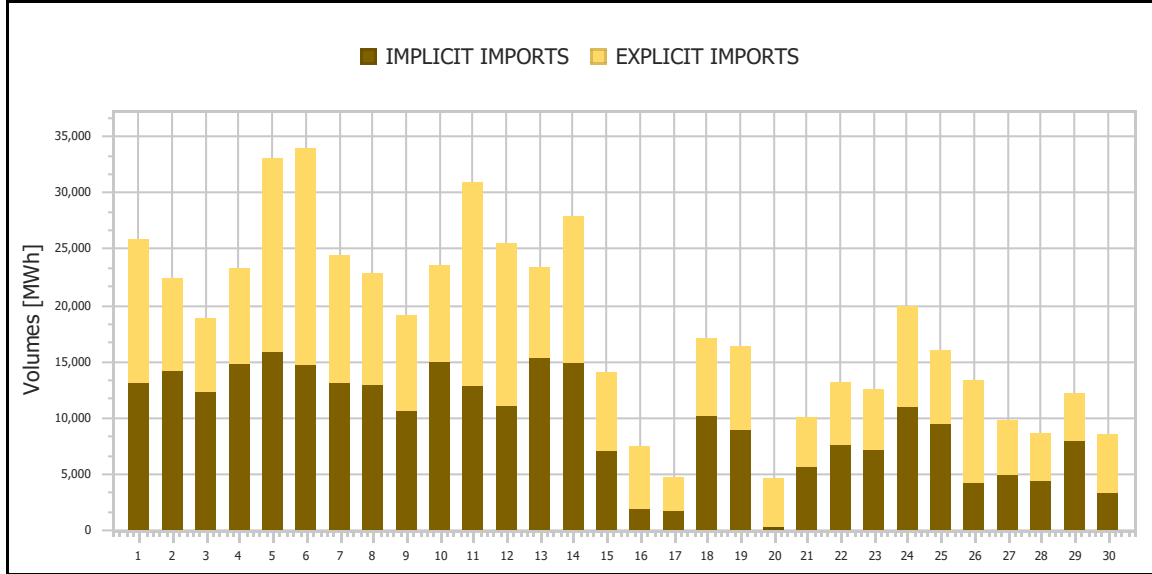
Ref No	Graph 1.11
Title	Net Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



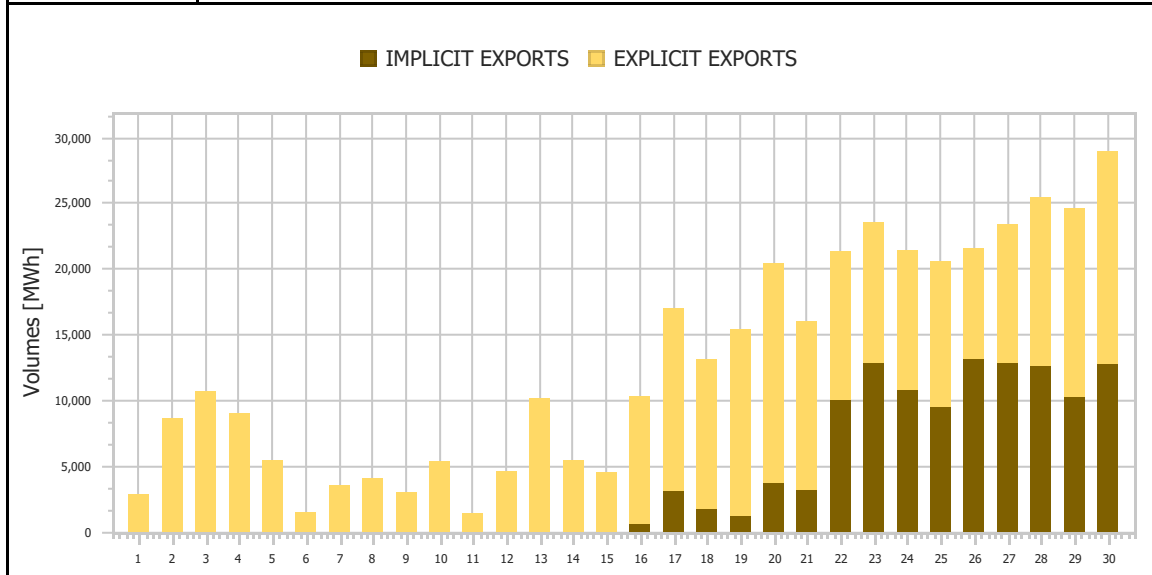
Ref No	Graph 1.12
Title	Total Imports & Exports
Scope	Day Ahead Market (DAM)
Analysis	Daily

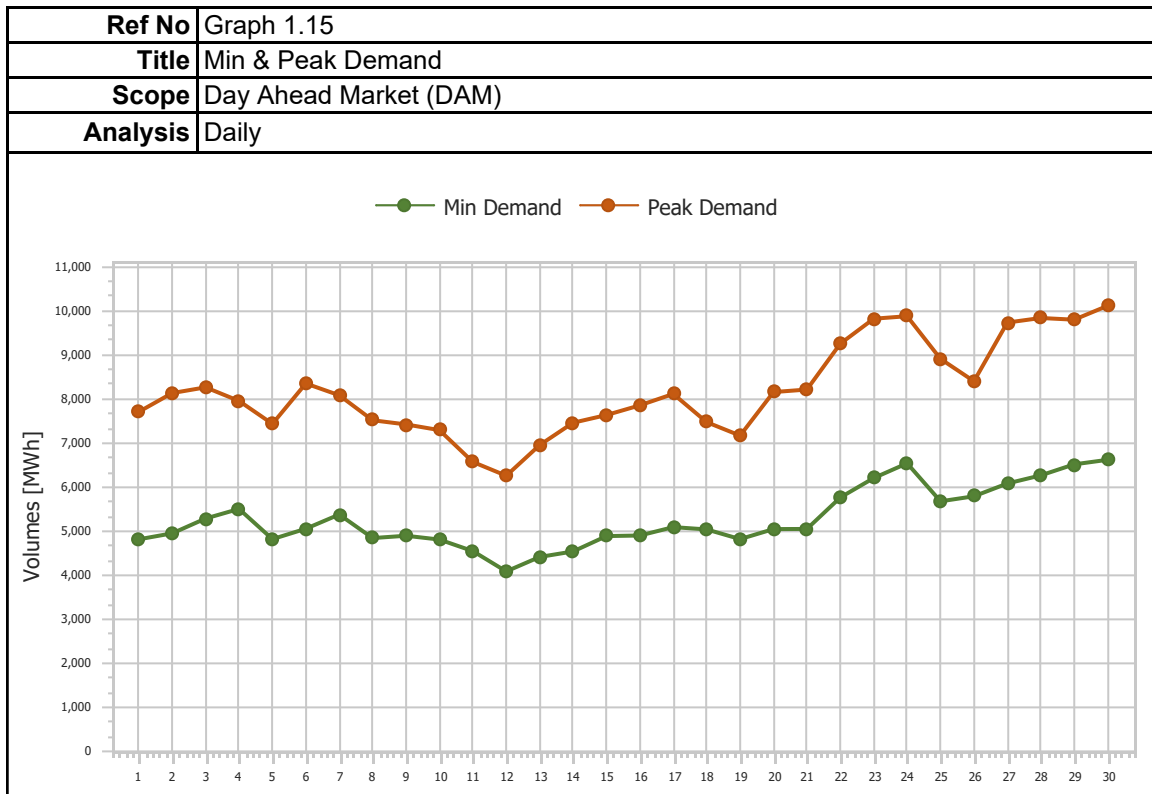


Ref No	Graph 1.13
Title	Imports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Daily

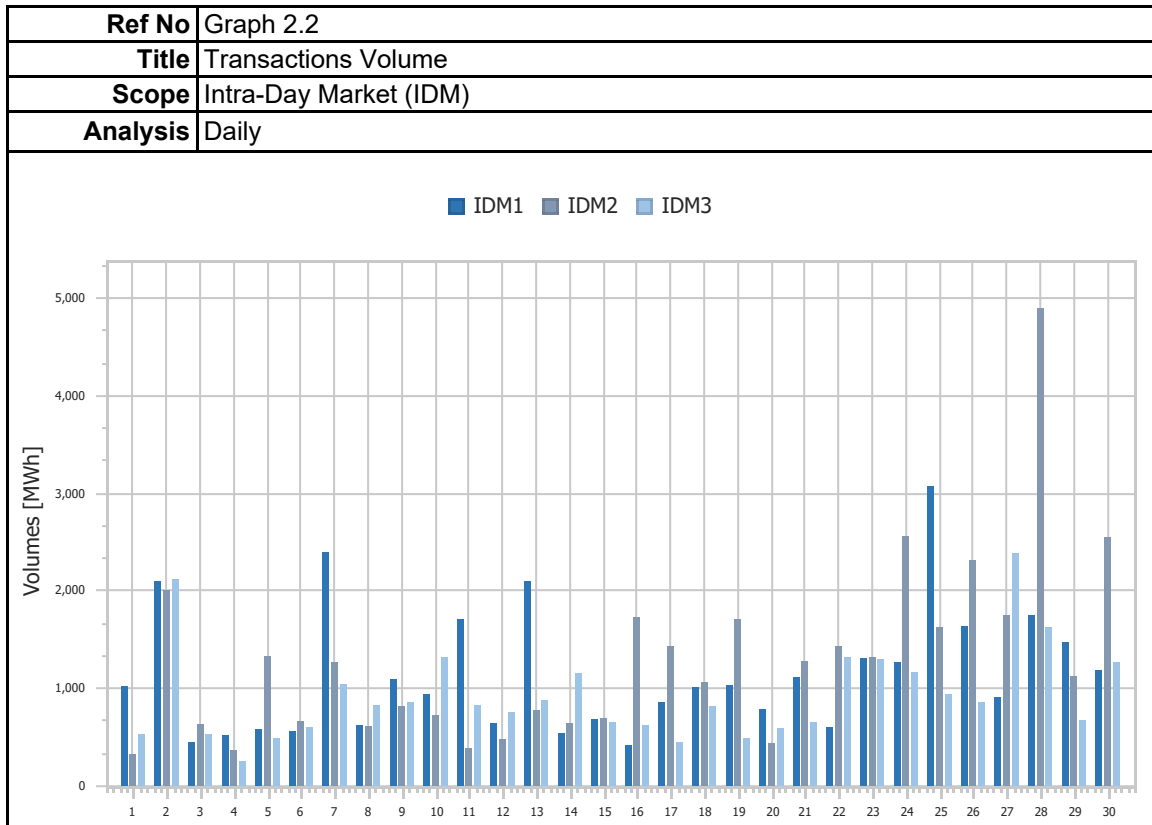
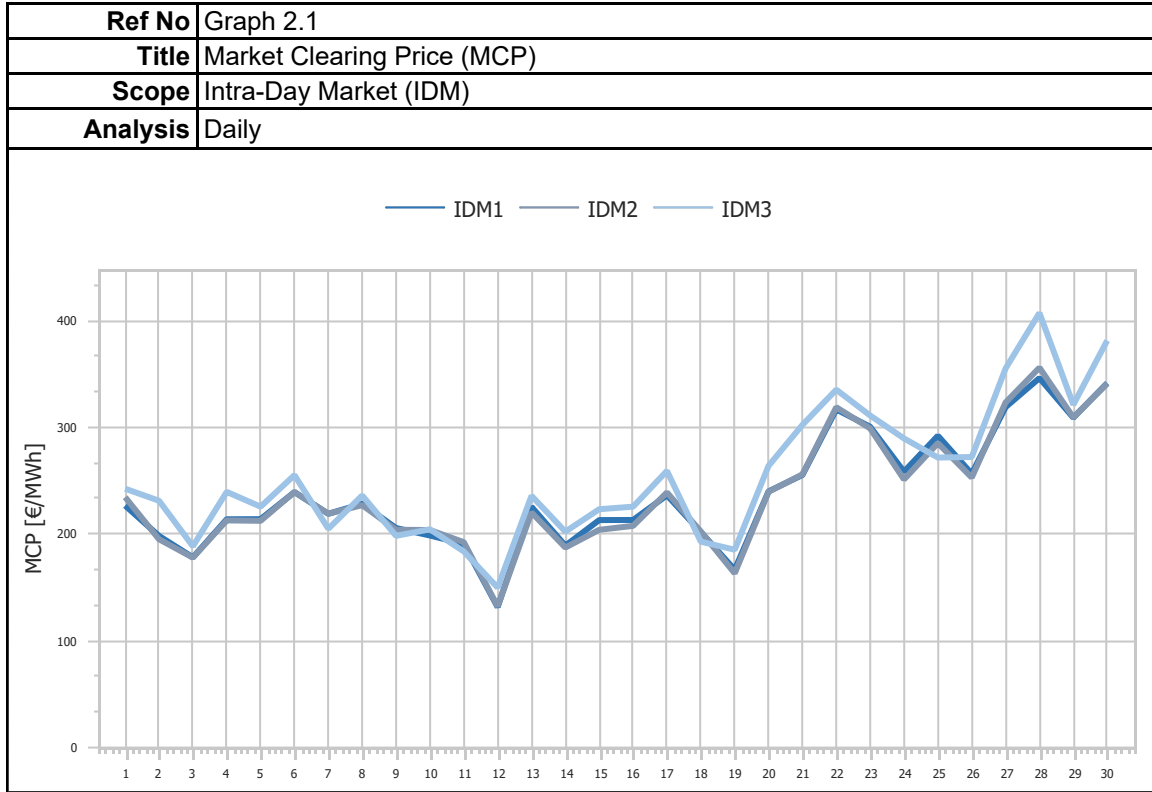


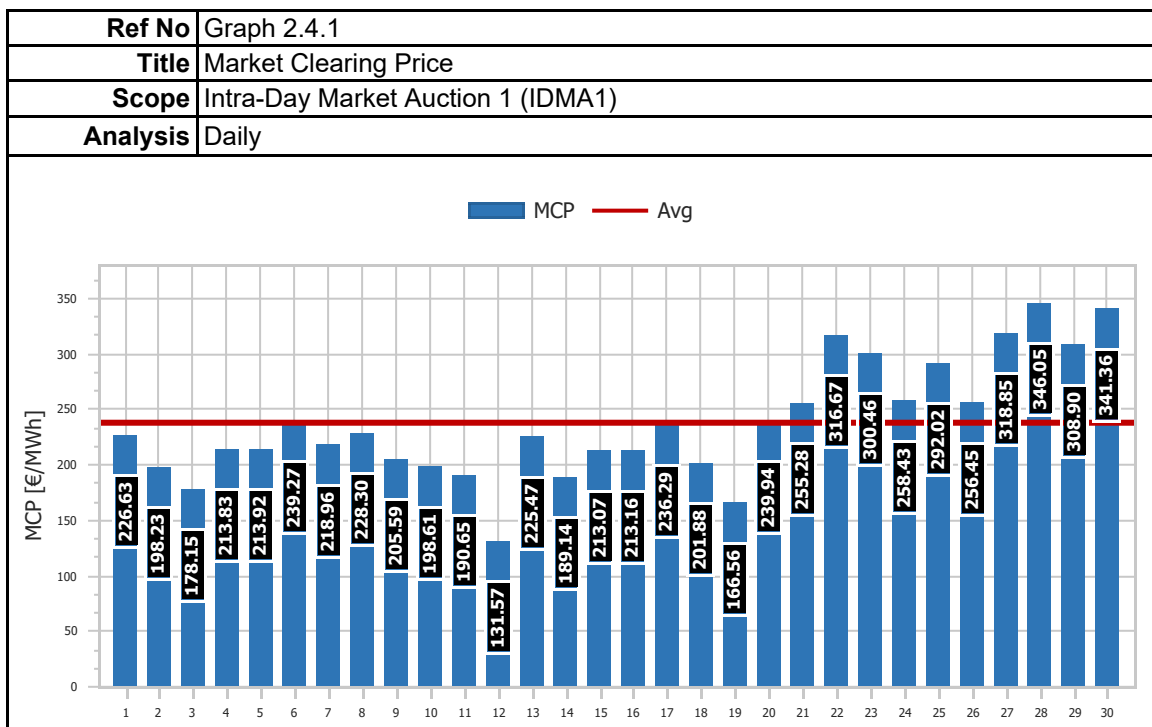
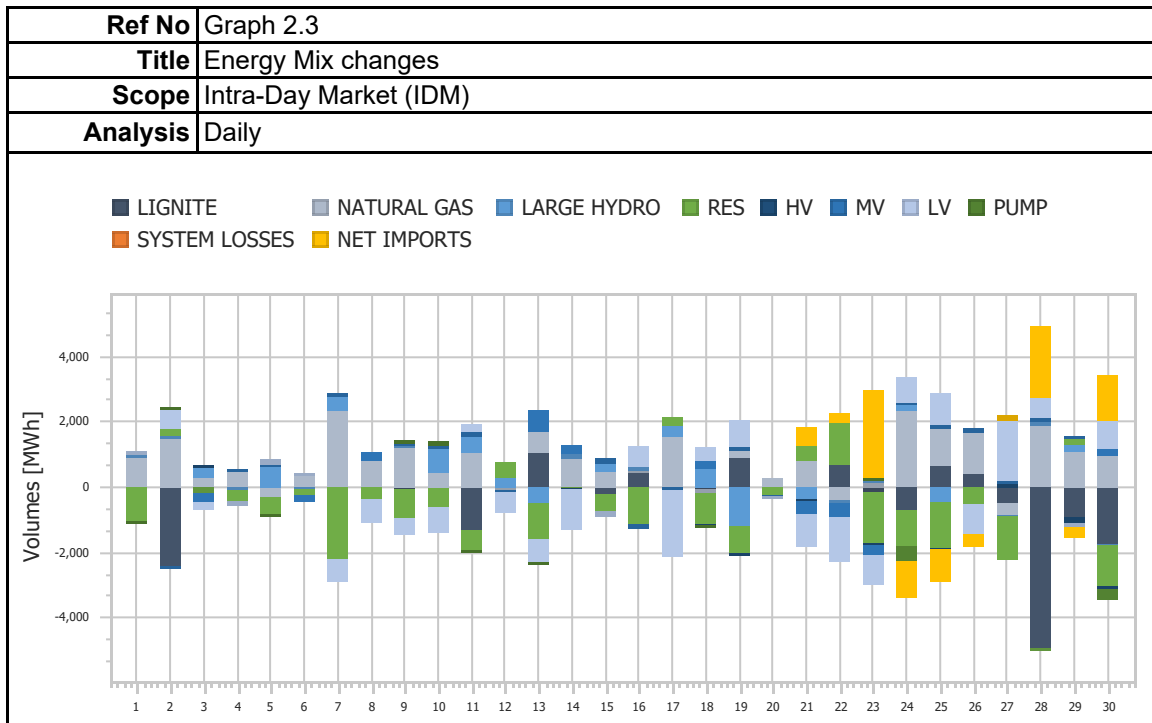
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Title	Exports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Monthly



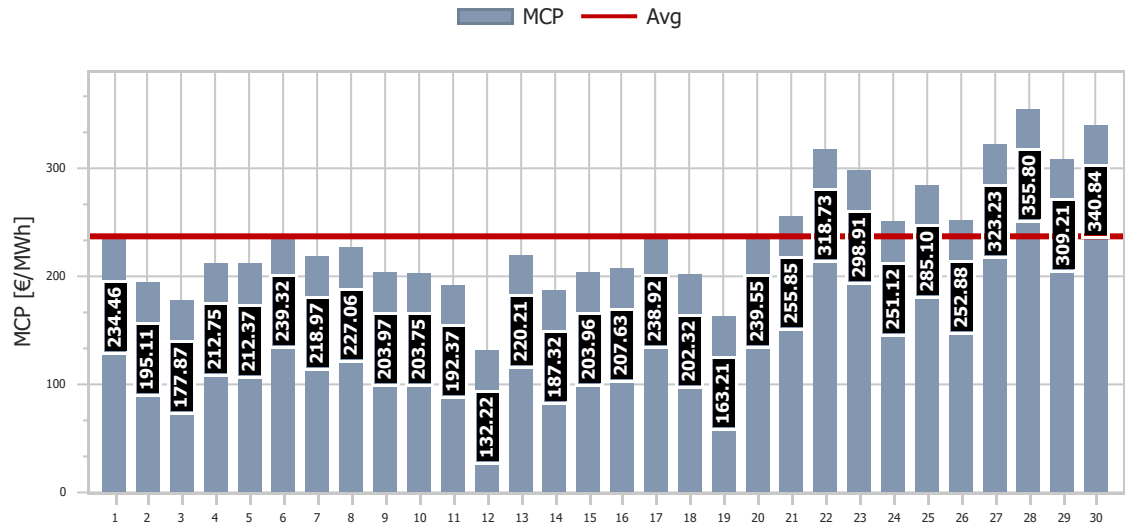


2. Intra-Day Market (IDM)

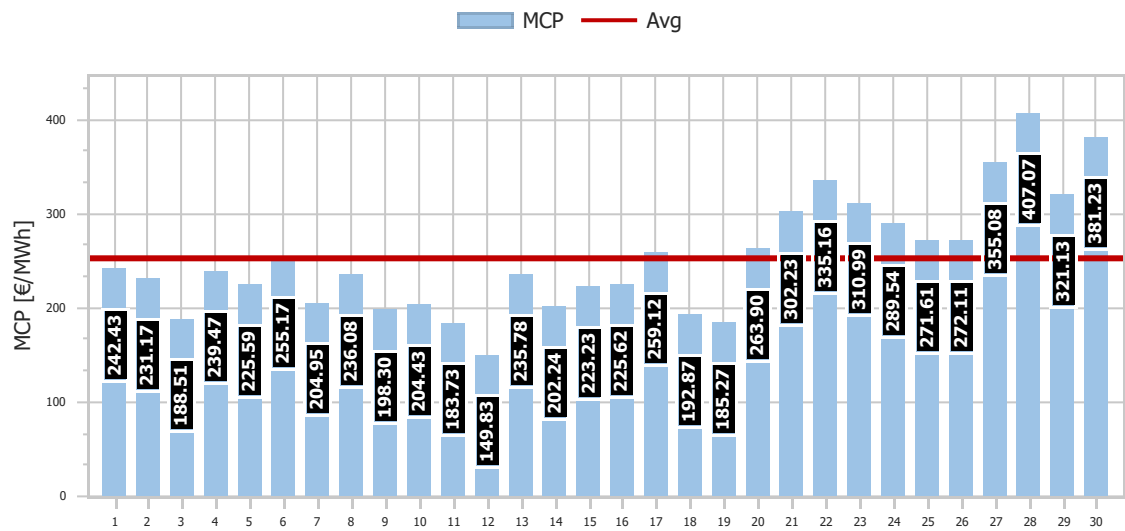




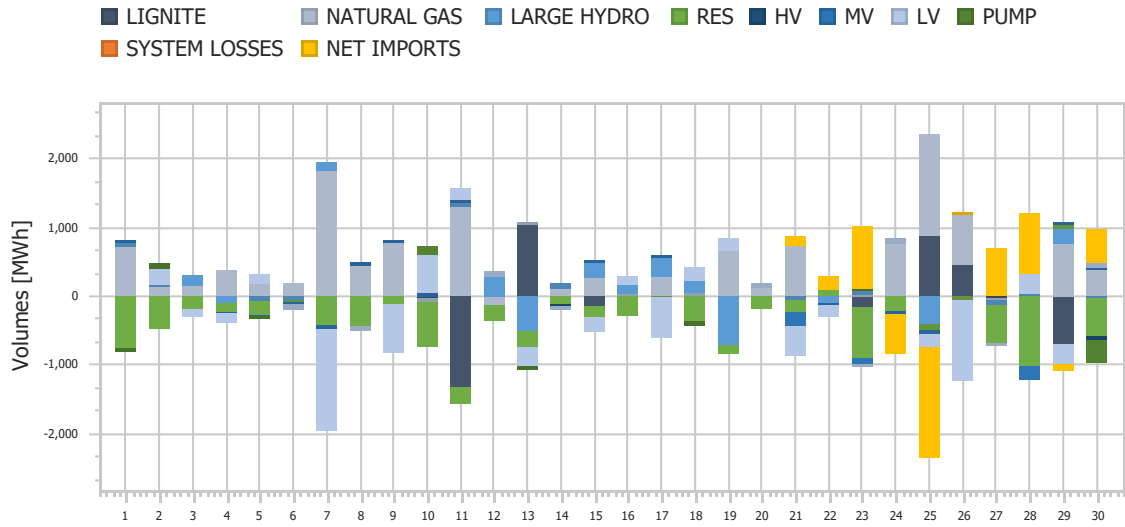
Ref No	Graph 2.4.2
Title	Market Clearing Price
Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



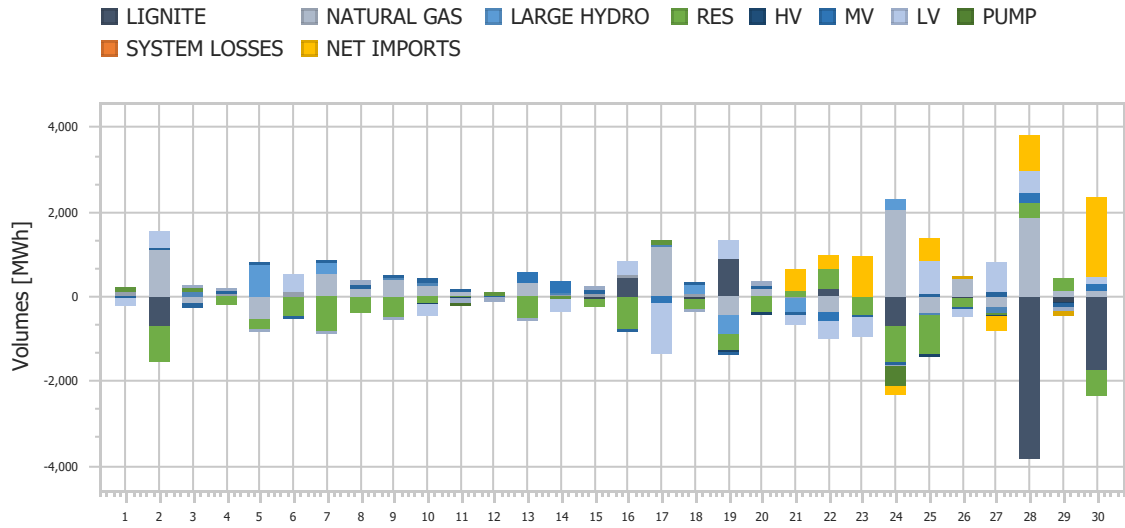
Ref No	Graph 2.4.3
Title	Market Clearing Price
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily

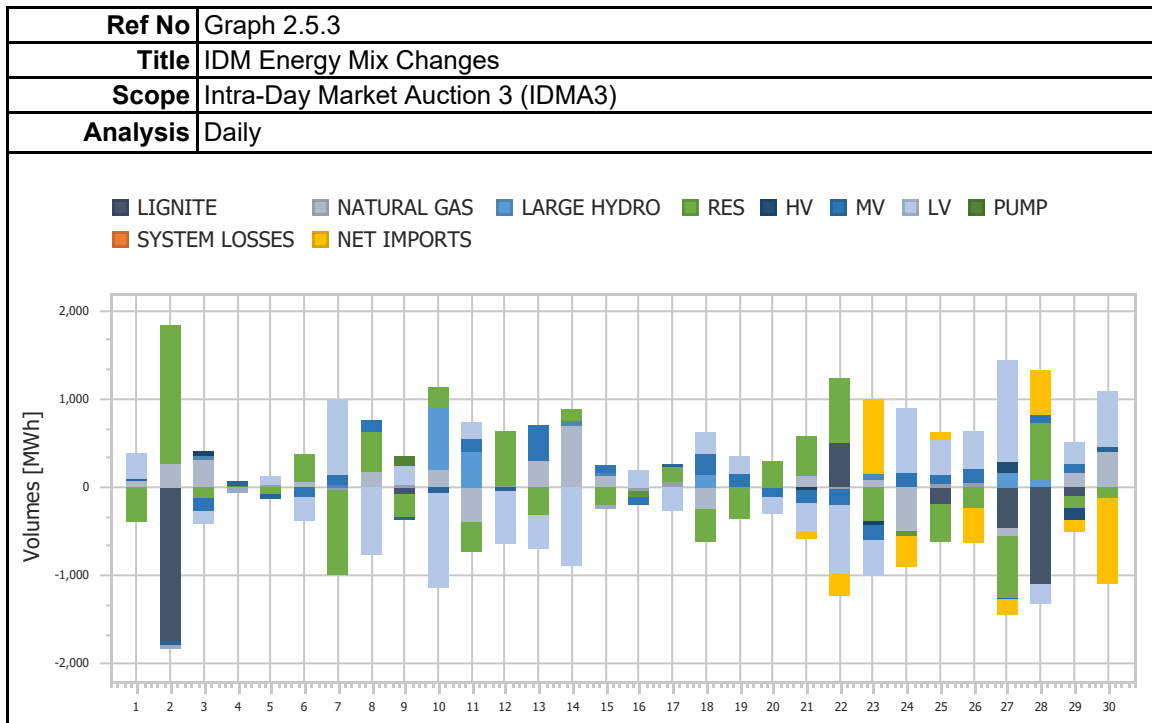


Ref No	Graph 2.5.1
Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 1 (IDMA1)
Analysis	Daily

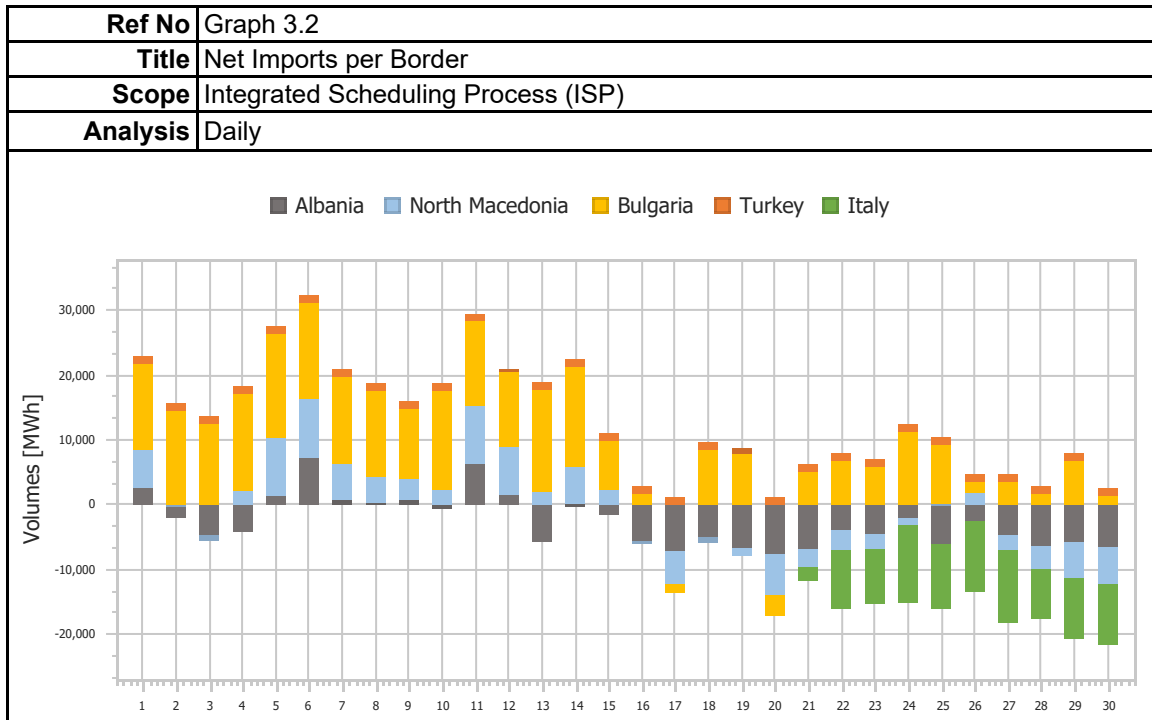
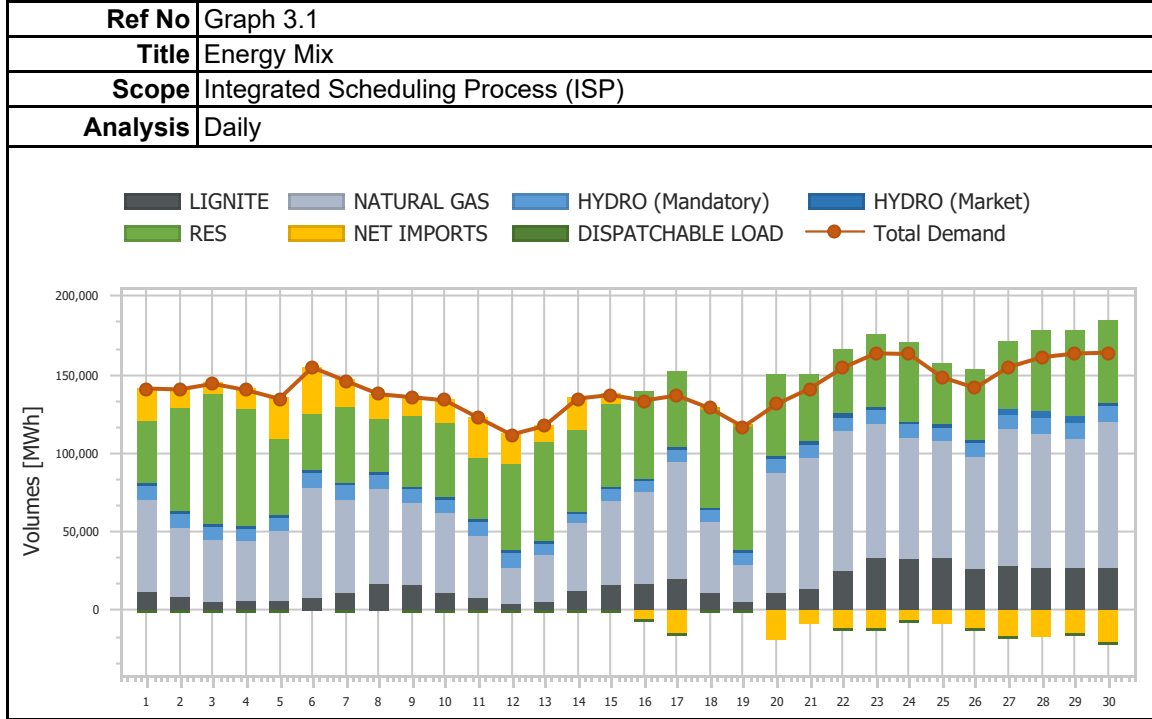


Ref No	Graph 2.5.2
Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily

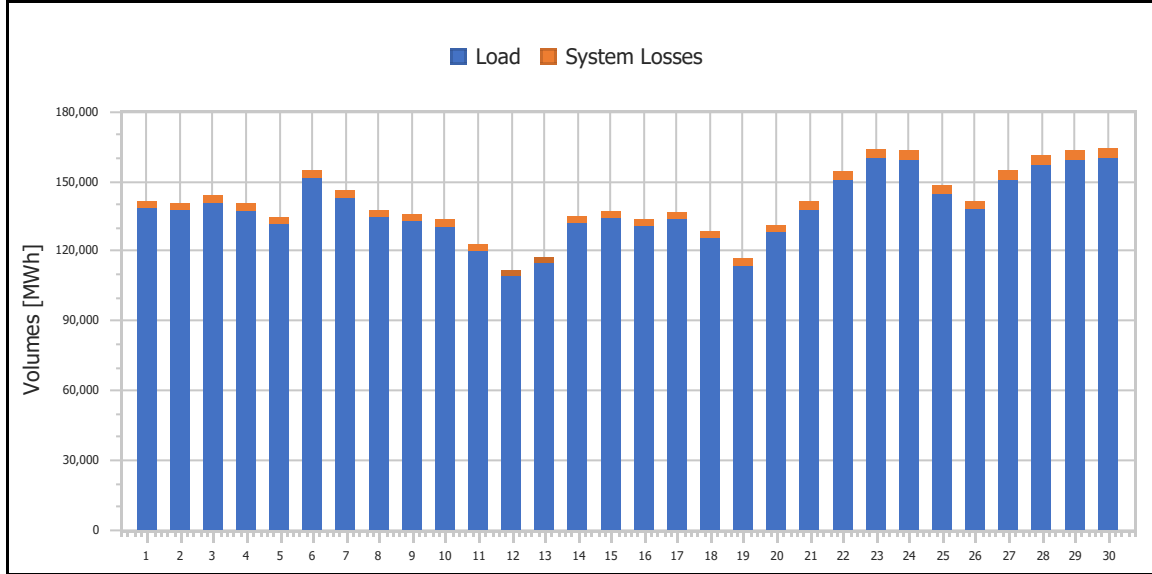




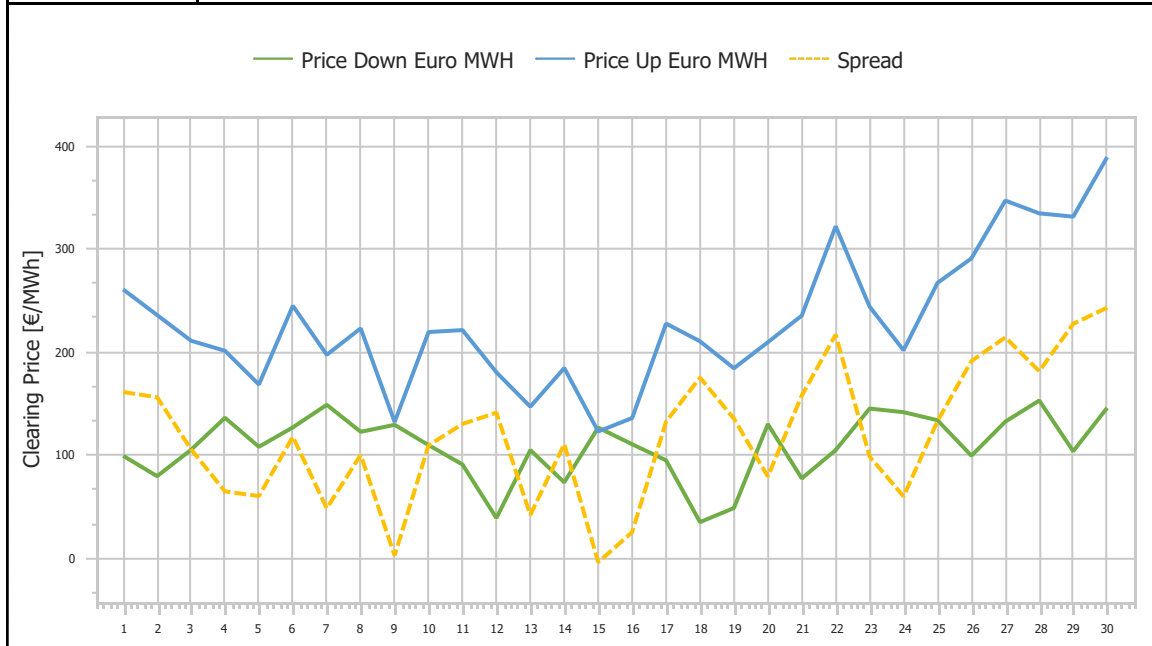
3. Integrated Scheduling Process (ISP)



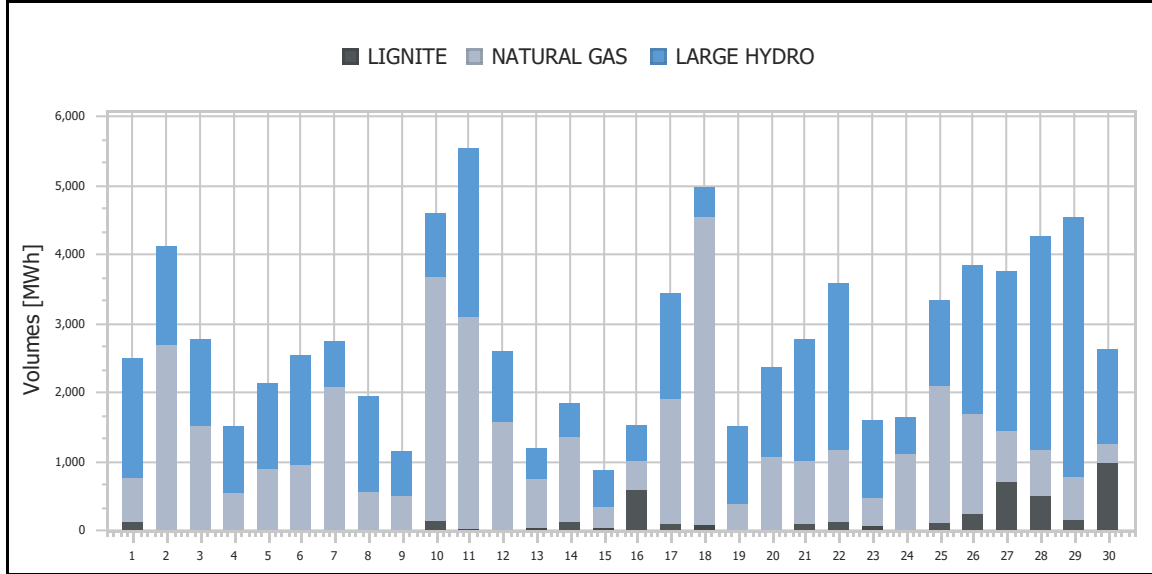
Ref No	Graph 3.3
Title	Demand & System Losses
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



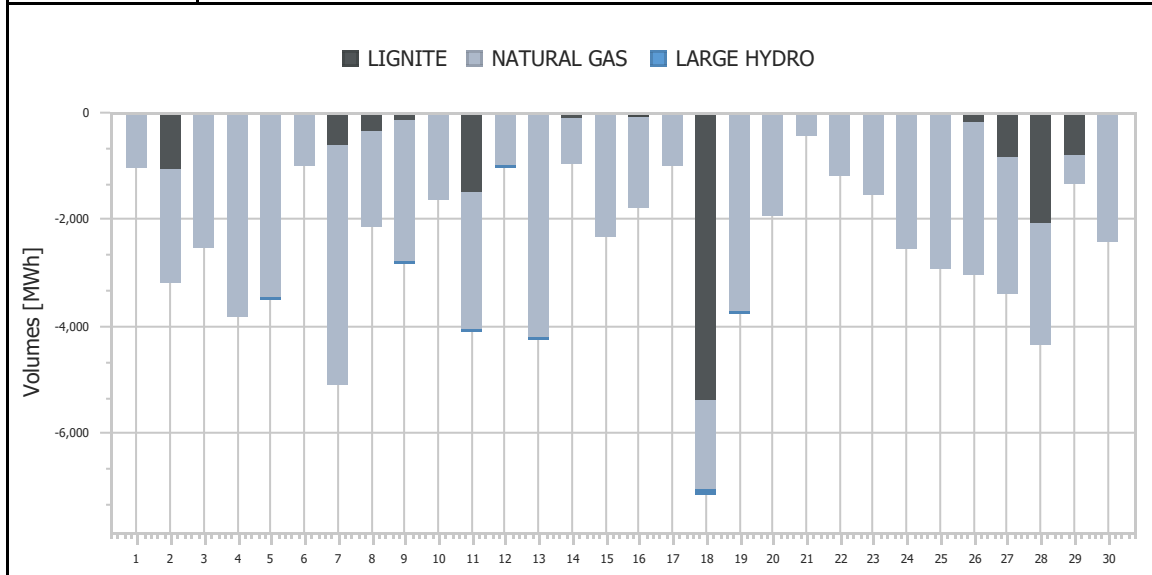
Ref No	Graph 3.4
Title	Clearing Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



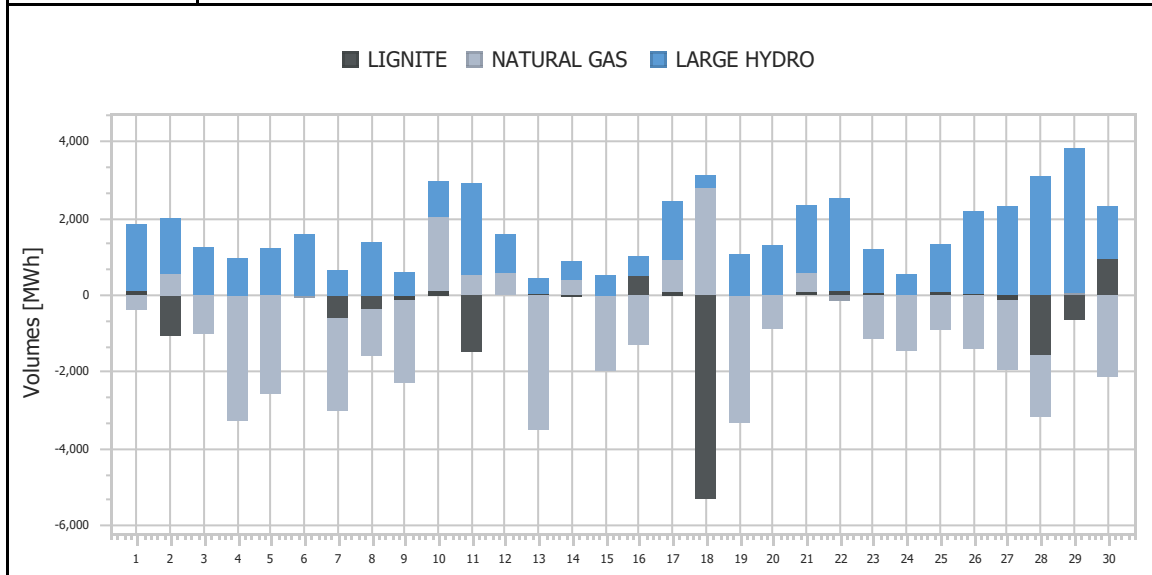
Ref No	Graph 3.5
Title	Upward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



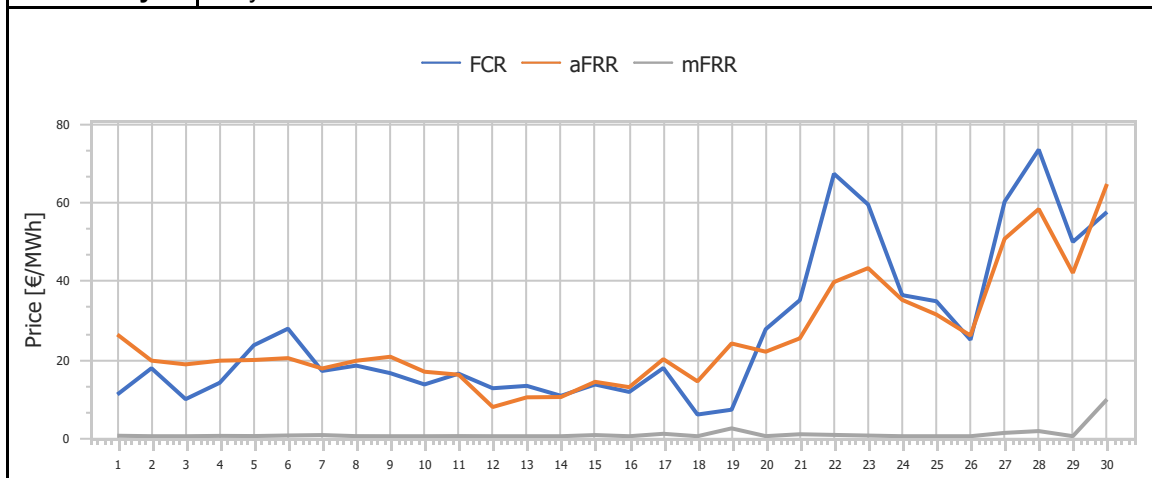
Ref No	Graph 3.6
Title	Downward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



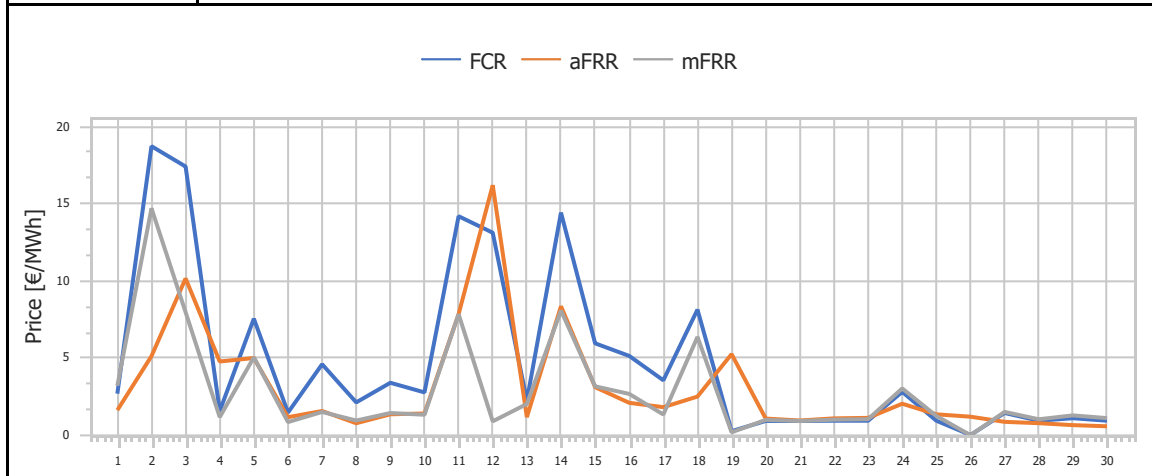
Ref No	Graph 3.7
Title	Net Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



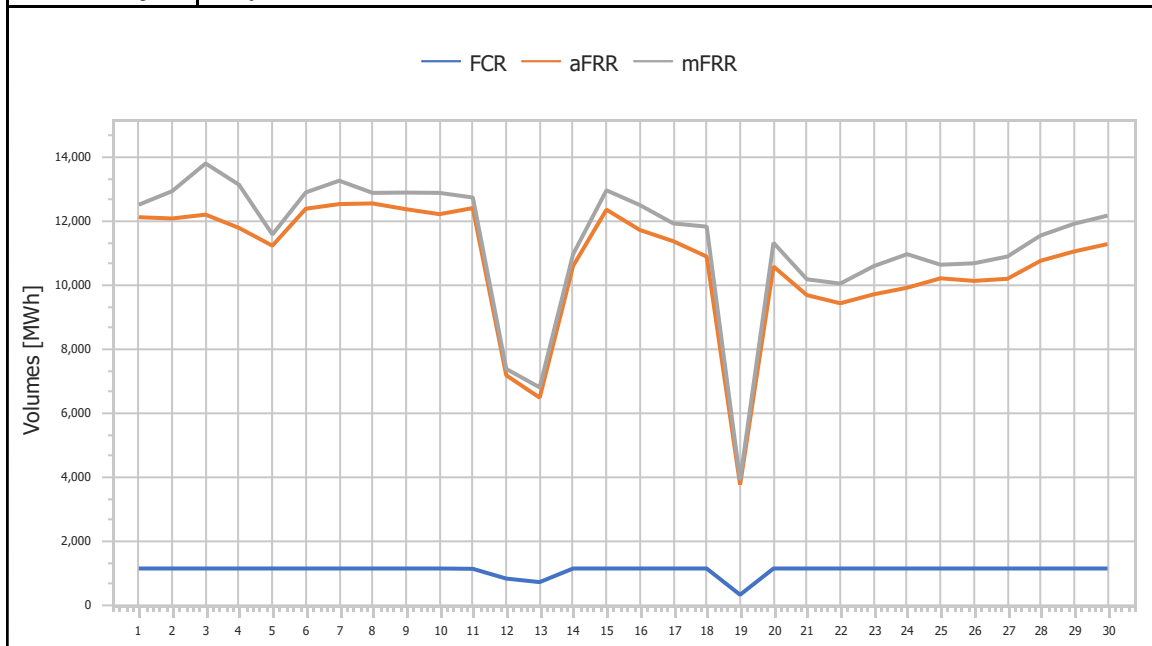
Ref No	Graph 3.8
Title	Upward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



Ref No	Graph 3.9
Title	Downward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



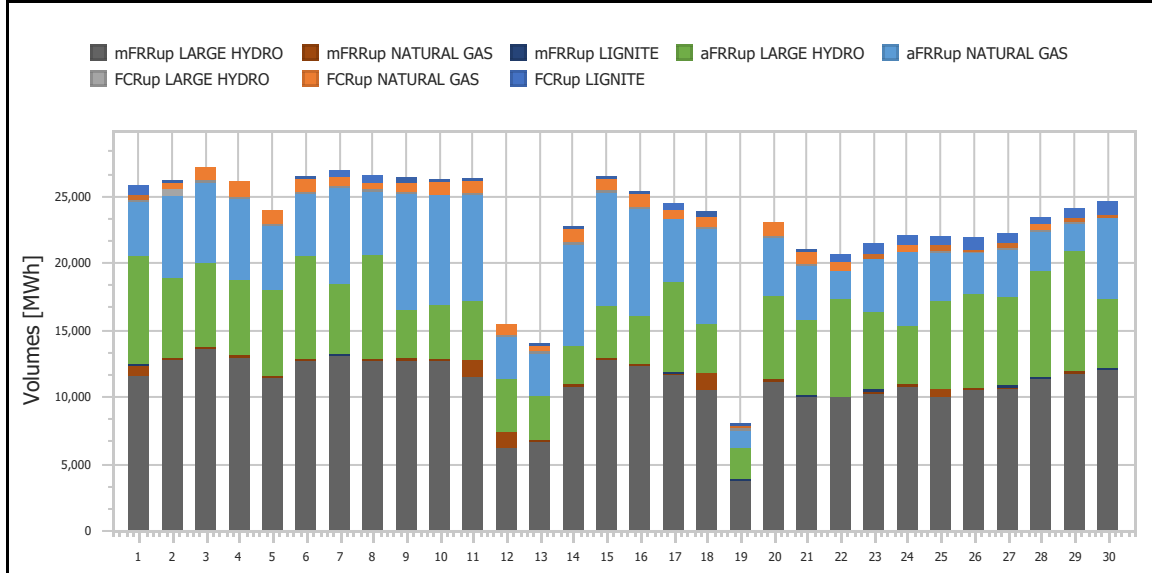
Ref No	Graph 3.10
Title	Upward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



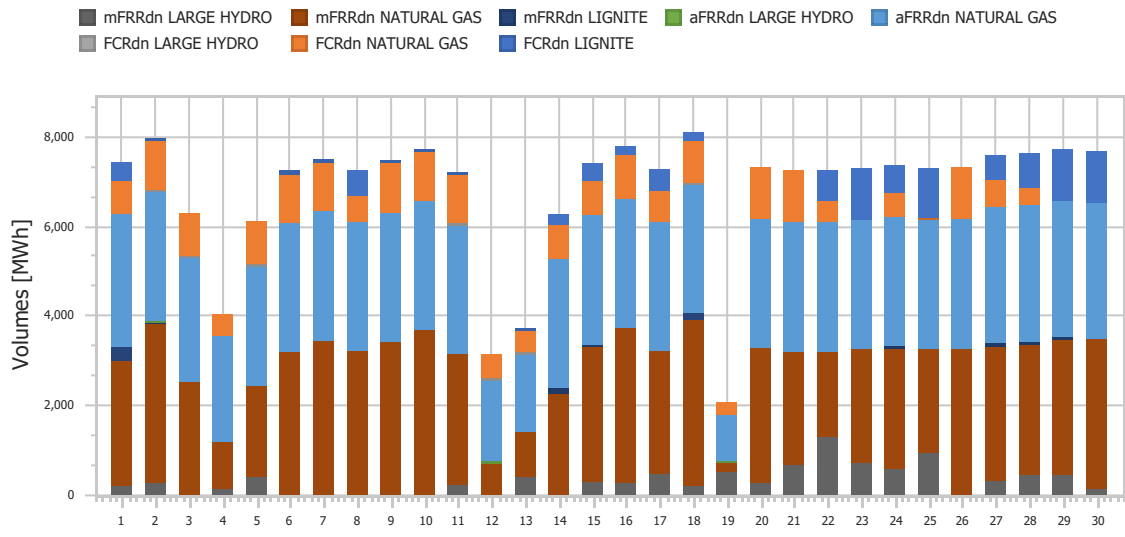
Ref No	Graph 3.11
Title	Downward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



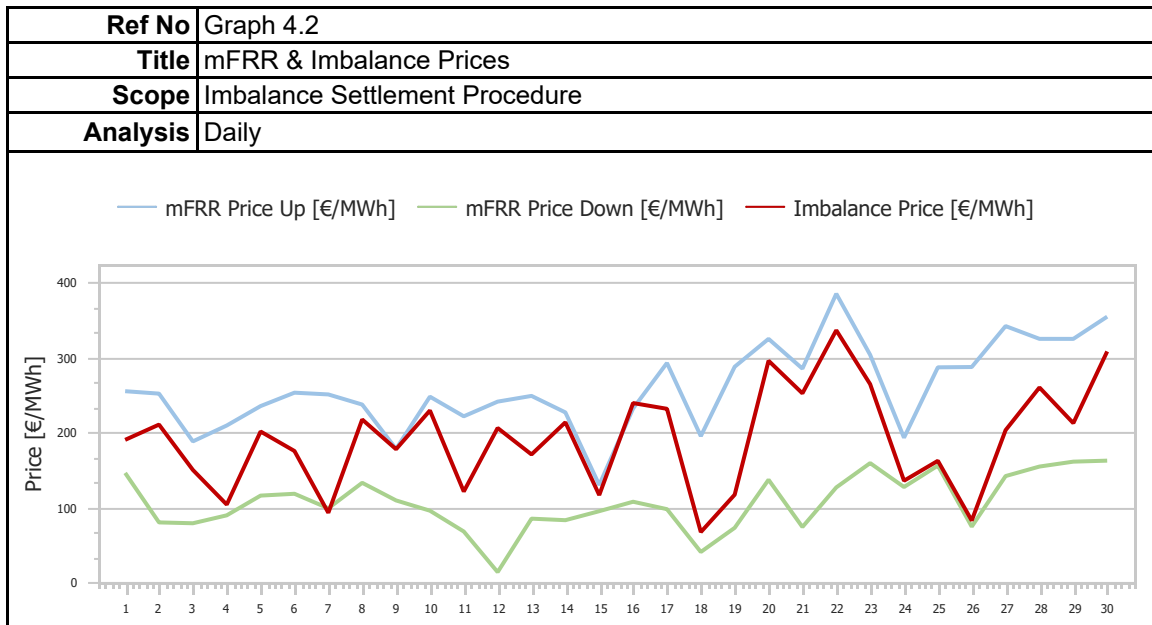
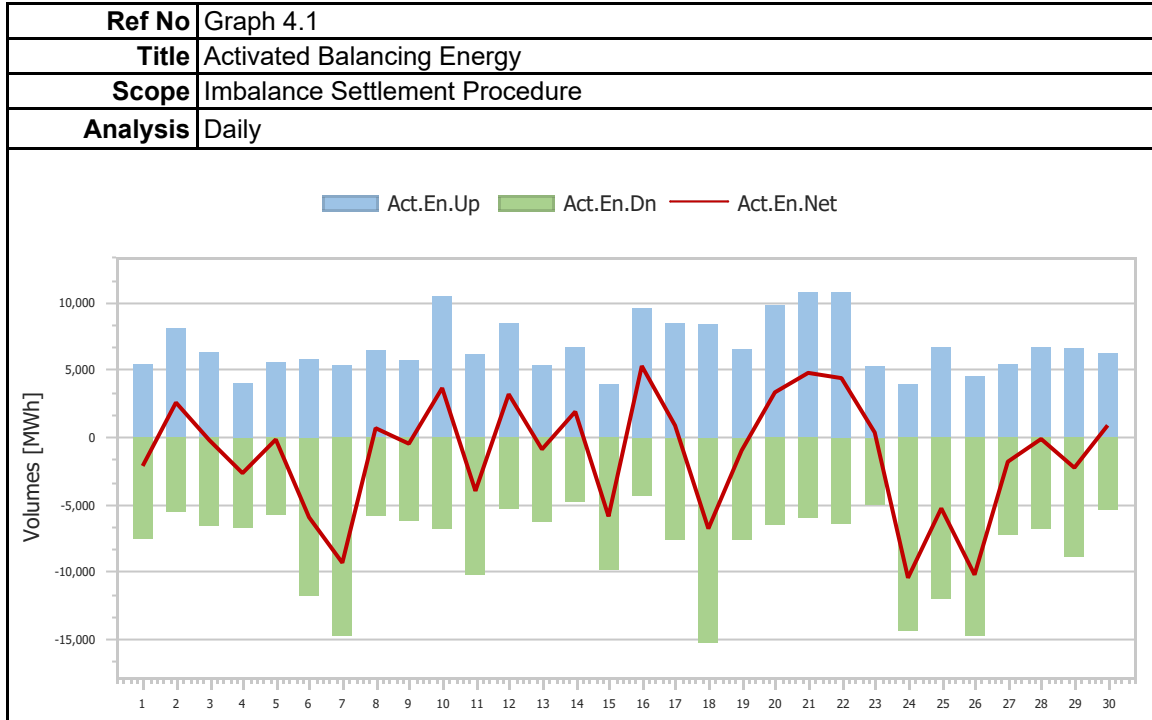
Ref No	Graph 3.12
Title	Upward Capacity Reserves Volumes per Technology
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



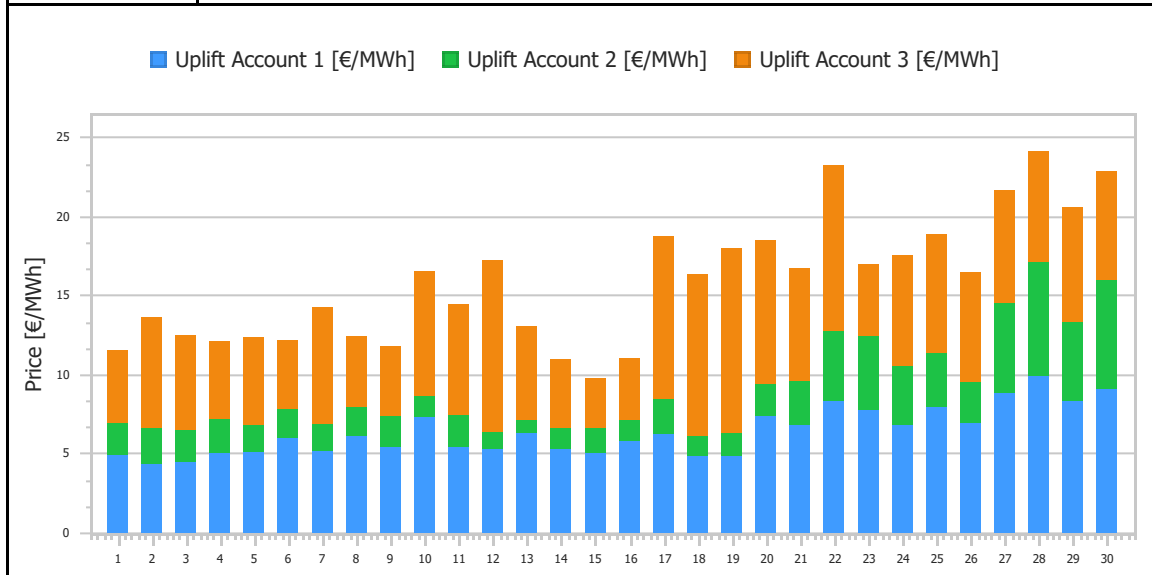
Ref No	Graph 3.13
Title	Downward Capacity Reserves Quantities per Type & Technology
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



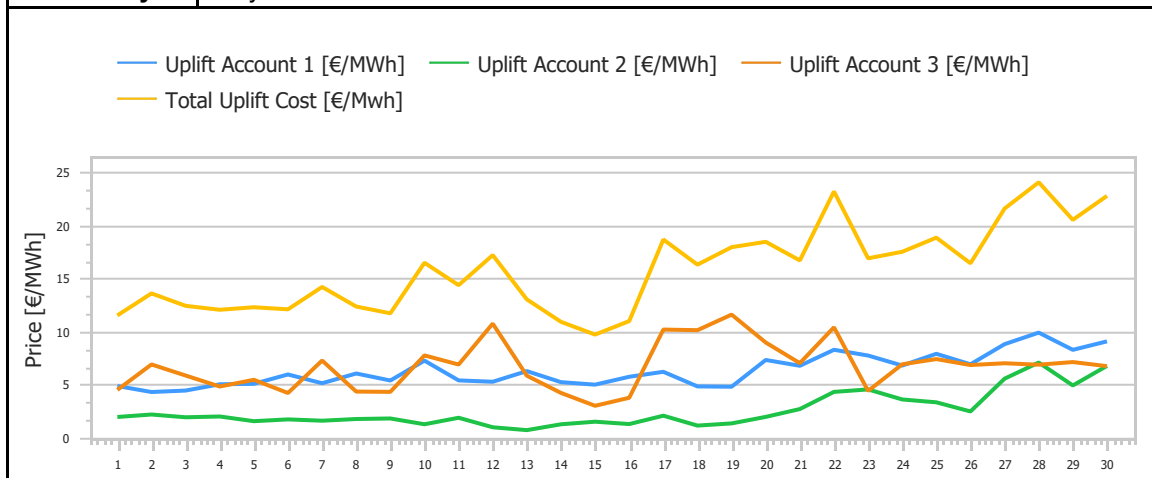
4. Imbalance Settlement Procedure



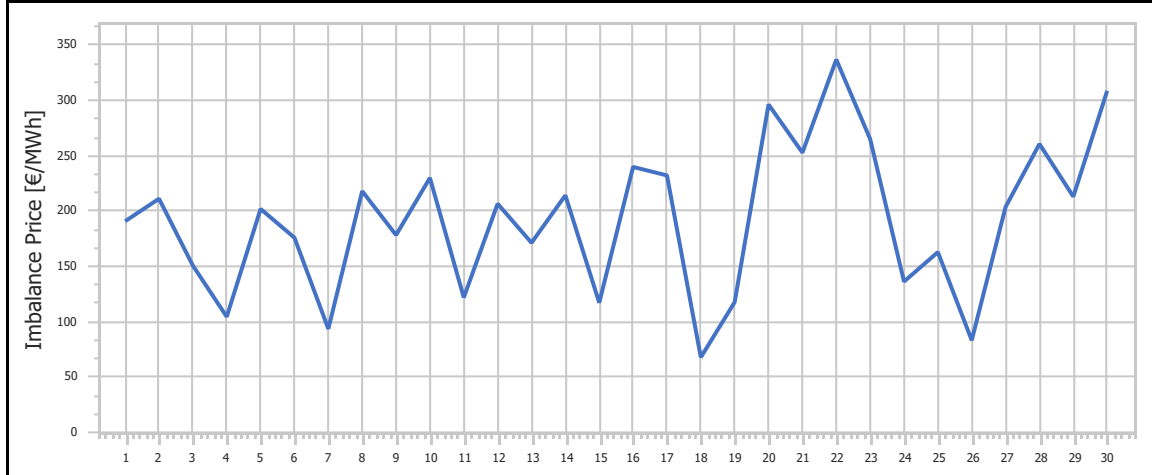
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



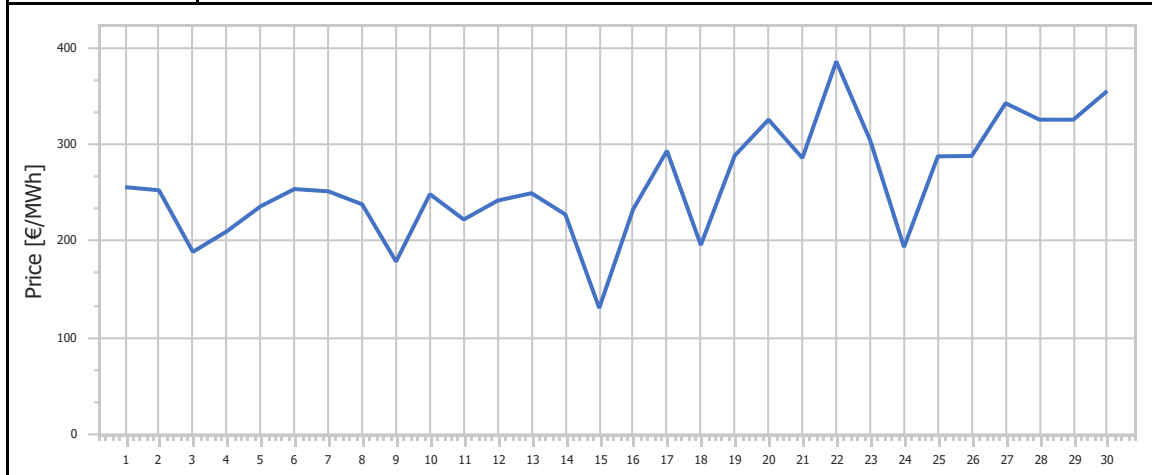
Ref No	Graph 4.4
Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



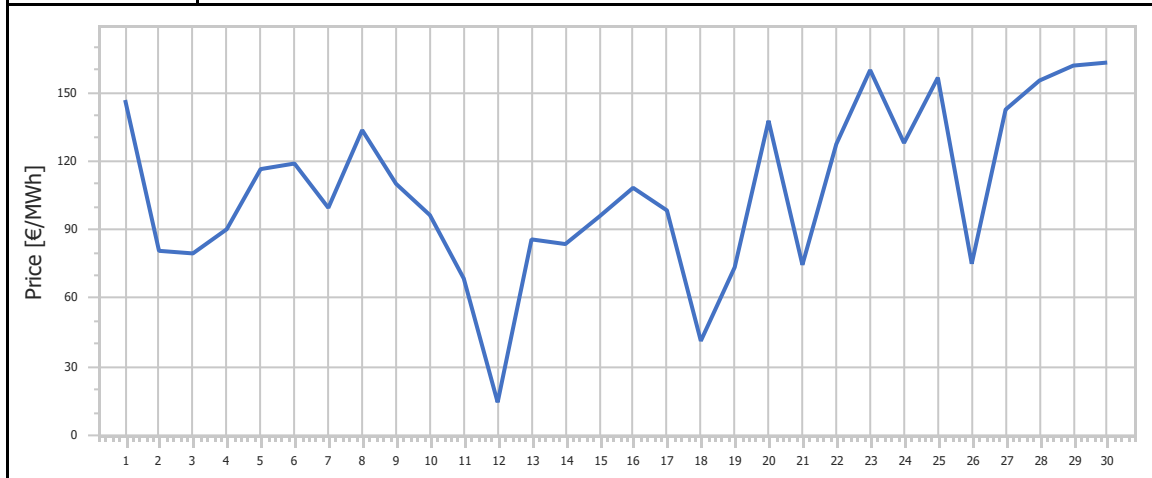
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Title	Imbalance Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



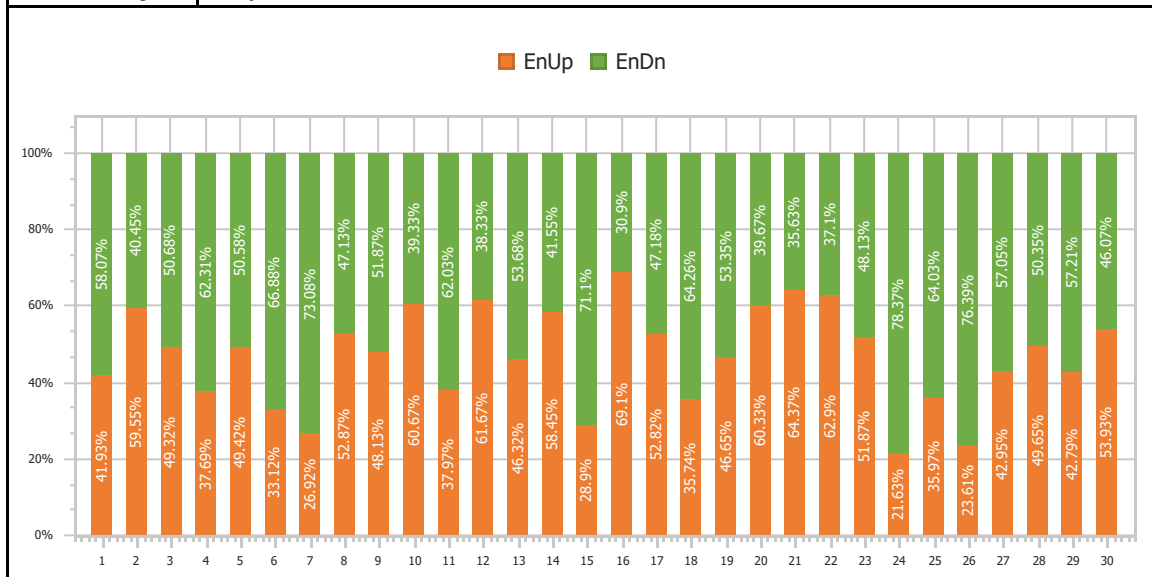
Ref No	Graph 4.6
Title	mFRR Up Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



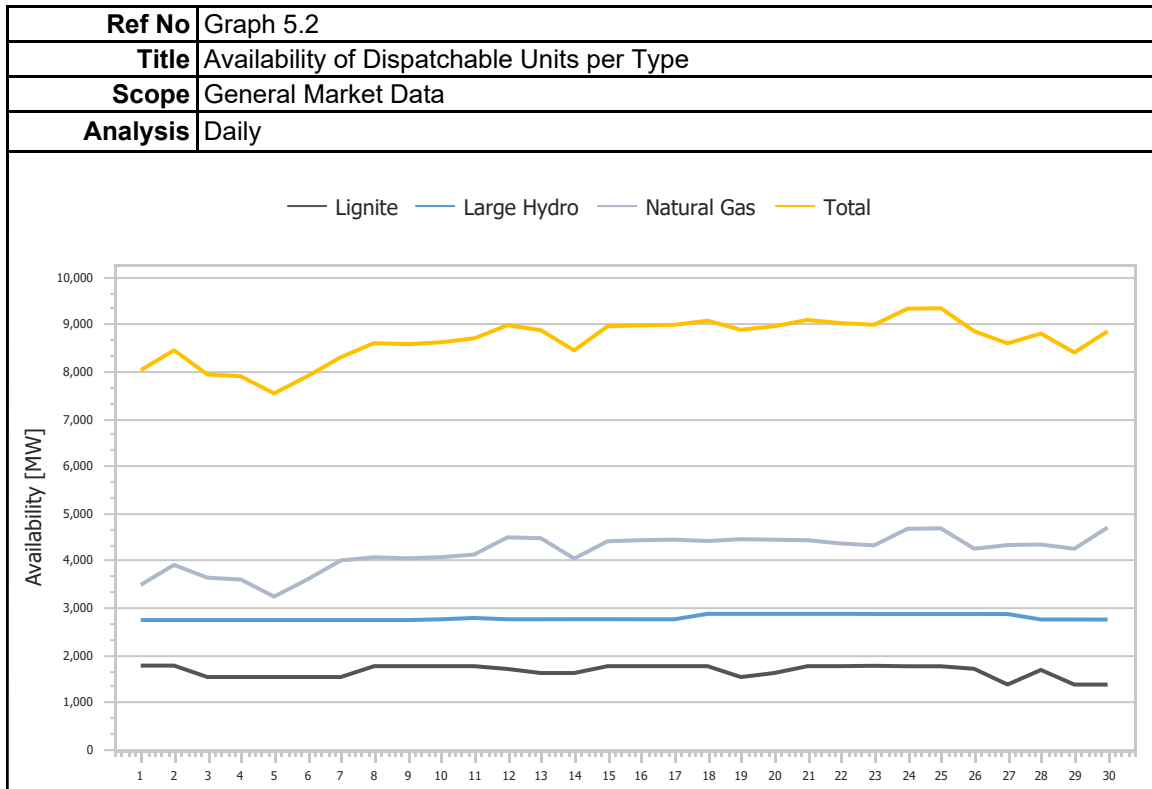
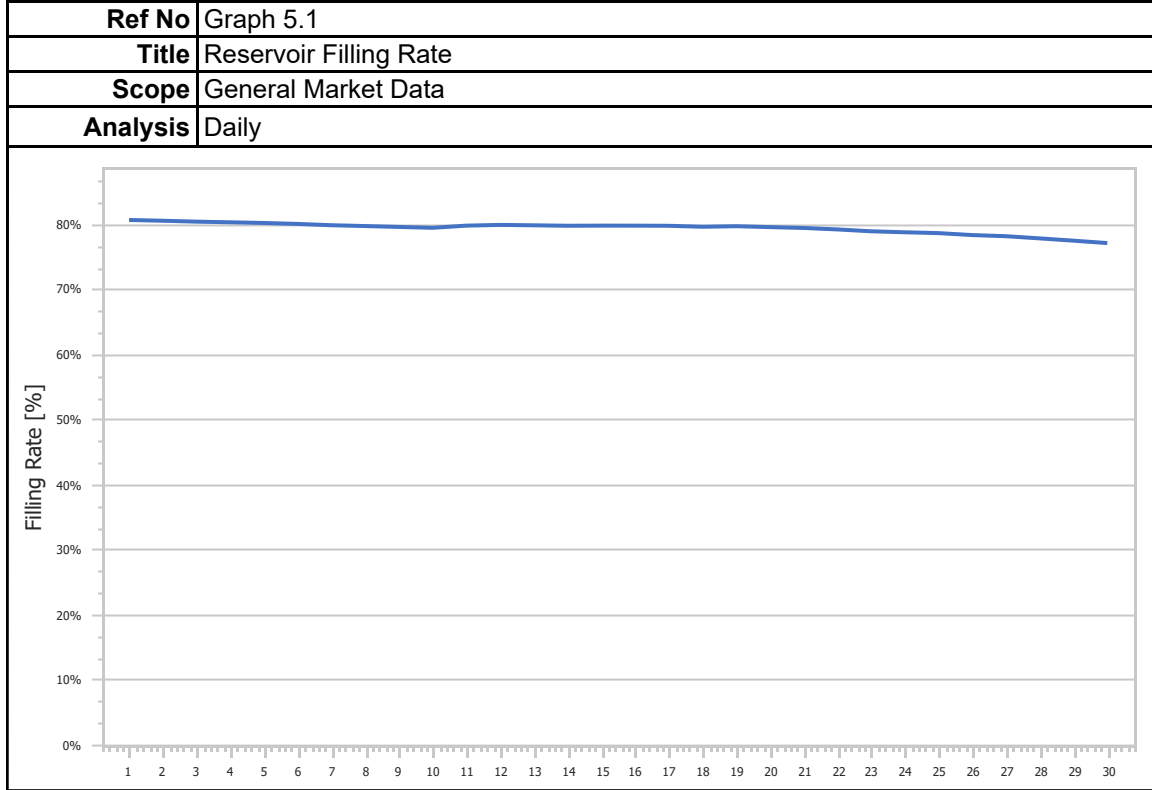
Ref No	Graph 4.7
Title	mFRR Down Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



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	508,438.555	10.27%	135,968,447.28€	11.09%	
Crete Conventional	140,229.500	2.83%	34,768,795.00€	2.83%	
Natural Gas	1,816,622.183	36.70%	477,362,515.77€	38.92%	
Large Hydro	277,267.284	5.60%	74,835,235.08€	6.10%	
RES	1,579,713.010	31.91%	361,598,406.84€	29.48%	
Crete Renewables	83,748.000	1.69%	20,032,738.73€	1.63%	
Imports	543,985.140	10.99%	121,868,864.27€	9.94%	
Total	4,950,003.668	100.00%	1,226,435,002.96€	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	-	4,950,003.67	508,438.56	140,229.50	1,816,622.18	277,267.28	1,579,713.01	83,748.00	543,985.14	
Average	240.49	165,000.12	16,947.95	4,674.32	60,554.07	9,242.24	52,657.10	2,791.60	18,132.84	
Min	131.80	124,987.18	4,512.00	3,662.50	22,074.87	7,133.00	34,473.84	1,061.00	4,629.70	
Min day	12	12	12	14	12	14	8	9	20	
Max	364.54	205,170.99	33,575.00	6,561.00	93,920.97	11,277.42	83,386.33	3,958.00	33,953.70	
Max day	28	30	23	30	30	27	3	29	6	
Spread	232.74	80,183.81	29,063.00	2,898.50	71,846.10	4,144.42	48,912.49	2,897.00	29,324.00	
Standard Deviation	53.76	20,431.80	9,595.57	700.86	20,136.85	976.28	11,504.18	850.53	8,063.31	

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	95,965.500	1.94%	23,918,267.20€	1.95%
Crete Load	299,386.000	6.05%	73,469,983.44€	5.99%
HV Load	622,512.329	12.58%	148,692,982.94€	12.12%
MV Load	963,185.305	19.46%	236,124,189.95€	19.25%
LV Load	2,570,237.174	51.92%	638,069,880.25€	52.03%
PUMP	13,691.964	0.28%	2,578,516.31€	0.21%
Exports	385,025.920	7.78%	103,581,336.17€	8.45%
Total	4,950,004.190	100.00%	1,226,435,156.27€	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	-	4,950,004.19	95,965.50	299,386.00	622,512.33	963,185.30	2,570,237.17	13,691.96	385,025.92
Average	240.49	165,000.14	3,198.85	9,979.53	20,750.41	32,106.18	85,674.57	570.50	12,834.20
Min	131.80	124,987.11	2,376.00	8,255.00	19,577.64	21,910.17	65,348.14	239.74	1,481.26
Min day	12	12	12	19	28	12	12	23	11
Max	364.54	205,171.05	4,287.50	11,492.00	22,075.02	38,447.21	103,106.93	1,175.00	29,006.60
Max day	28	30	30	27	4	30	24	3	30
Spread	232.74	80,183.94	1,911.50	3,237.00	2,497.38	16,537.04	37,758.79	935.26	27,525.34
Standard Deviation	53.76	20,431.81	538.02	810.91	709.49	4,474.73	10,407.14	259.96	8,411.93

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	1,230,734.310	68.56%	9,619,152.17€	85.18%
FCR	120,626.100	6.72%	1,404,059.60€	12.43%
mFRR	443,850.000	24.72%	269,531.72€	2.39%
Total	1,795,210.410	100.00%	11,292,743.49€	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	322,343.040	40.76%	272,763.70€	34.64%
FCR	121,656.810	15.38%	200,909.15€	25.52%
mFRR	346,786.870	43.85%	313,735.87€	39.84%
Total	790,786.720	100.00%	787,408.72€	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	93,753.700	45.83%	28,566,352.15€	45.97%	
mFRR	110,813.940	54.17%	33,578,048.21€	54.03%	
Total	204,567.640	100.00%	62,144,400.36€	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	84,220.000	34.91%	7,022,372.12€	30.91%	
mFRR	157,012.970	65.09%	15,697,178.51€	69.09%	
Total	241,232.970	100.00%	22,719,550.63€	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	4,950,003.67	98.71%
IDMA1	34,436.36	0.69%
IDMA2	39,001.57	0.78%
IDMA3	28,074.66	0.56%
IDM (Total)	101,512.60	2.02%
Balancing Energy (Up)	204,567.64	4.08%
Balancing Energy (Dn)	241,232.97	4.81%
Balancing Energy (Total)	-36,665.33	-0.73%
Total	5,014,850.93	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	1,226,435,002.96€	94.04%
IDMA1	8,671,349.35€	0.66%
IDMA2	10,053,739.13€	0.77%
IDMA3	7,496,314.61€	0.57%
IDM (Total)	26,221,403.09€	2.01%
Balancing Capacity (Up)	11,292,743.49€	0.87%
Balancing Capacity (Dn)	787,408.72€	0.06%
Balancing Capacity (Total)	12,080,152.20€	0.93%
Balancing Energy (Up)	62,144,400.36€	4.77%
Balancing Energy (Dn)	22,719,550.63€	1.74%
Balancing Energy (Total)	39,424,849.73€	3.02%
Balancing Market (Total)	51,505,001.93€	3.95%
Total	1,304,161,407.98€	100.00%