

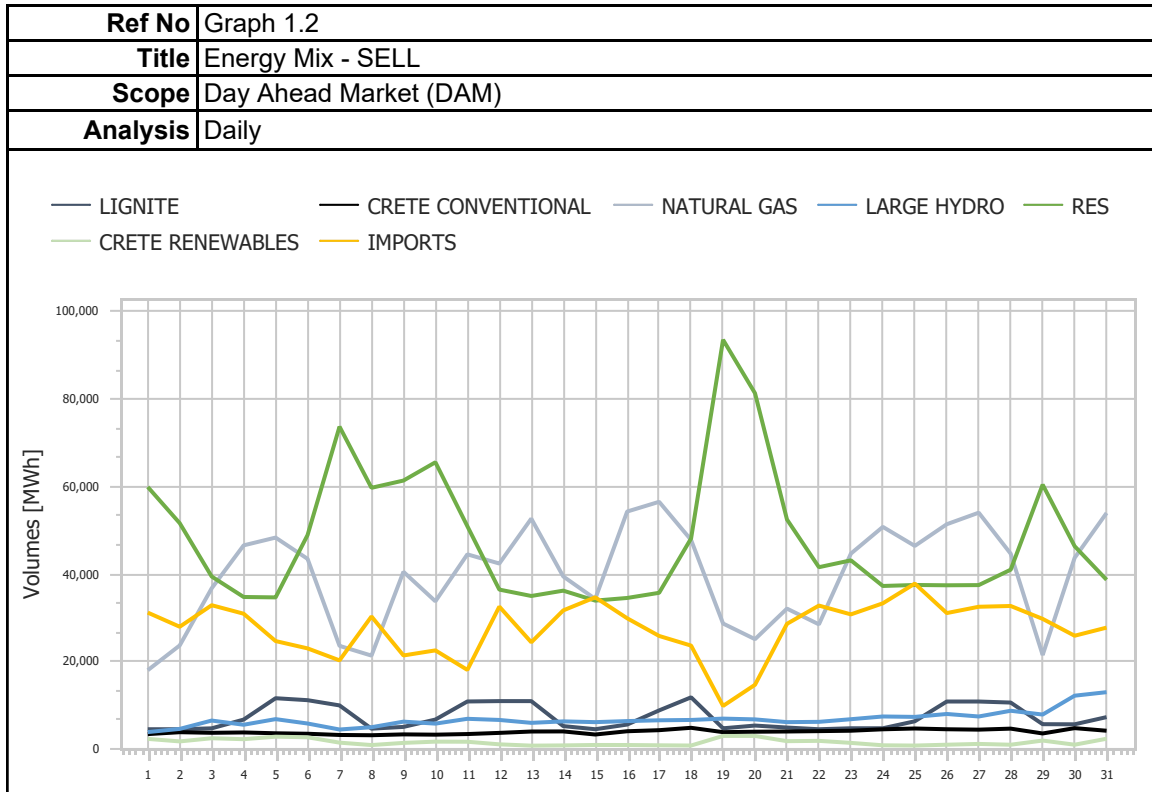
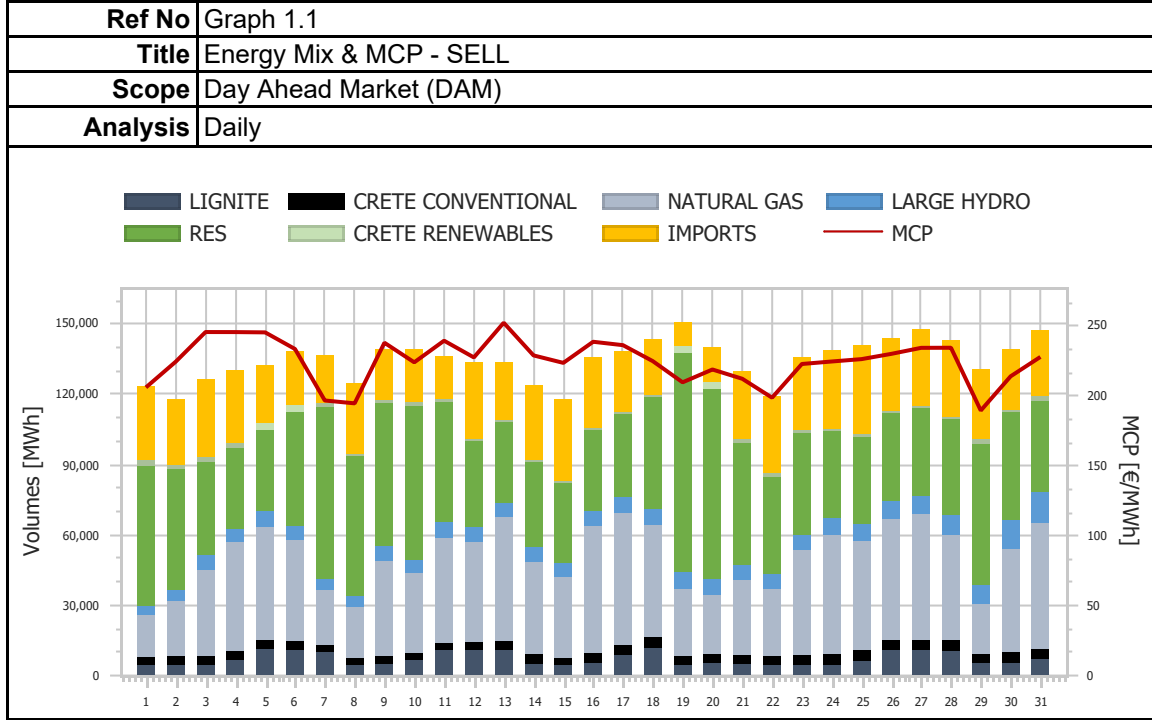
Market Monitoring Report

Monthly - Public - 2

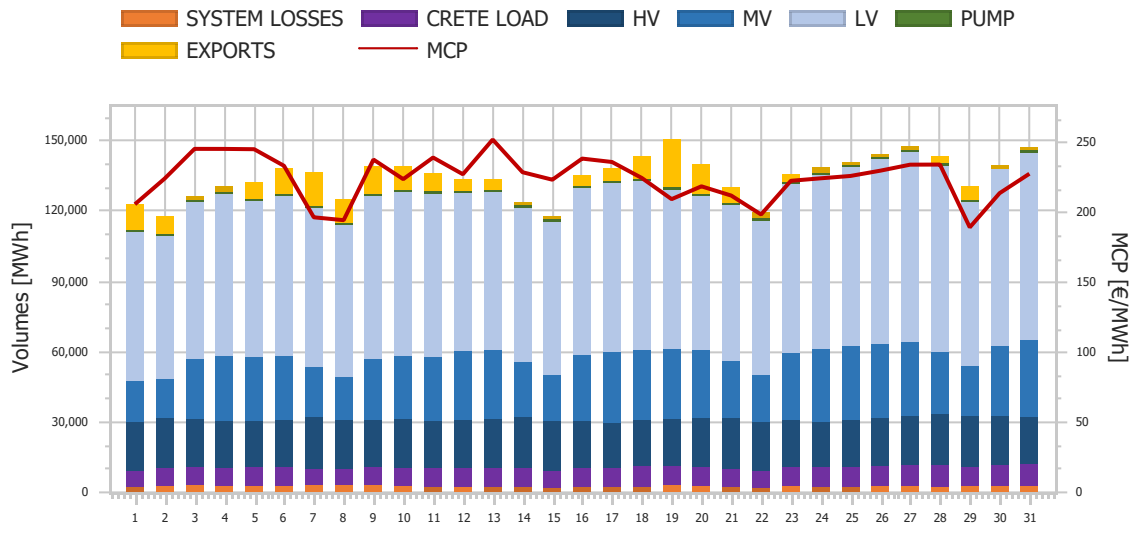
05-2022



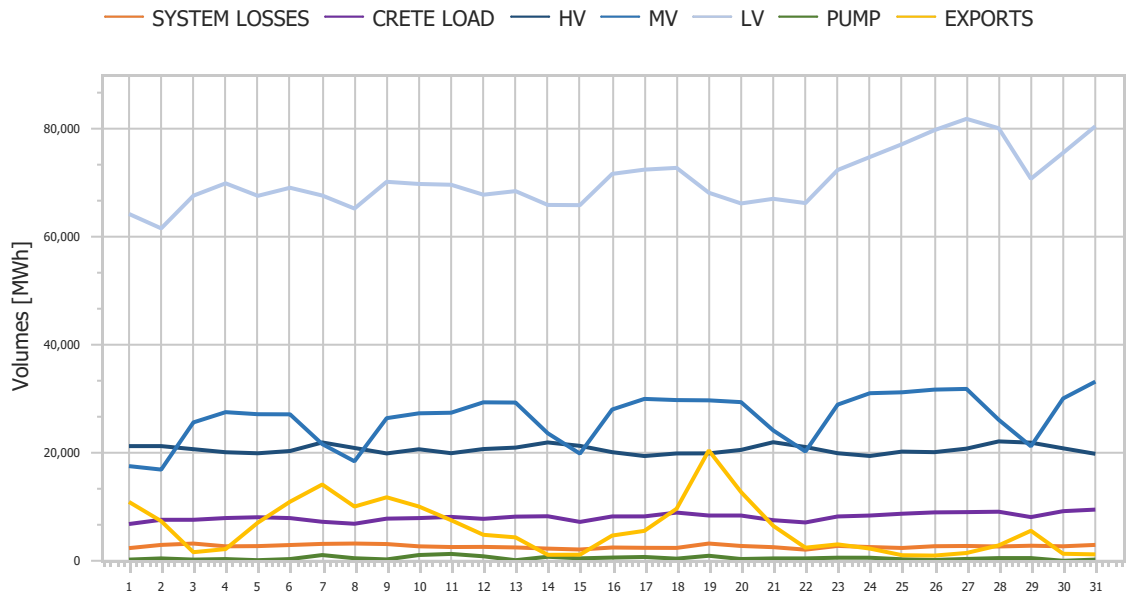
1. Day Ahead Market (DAM)



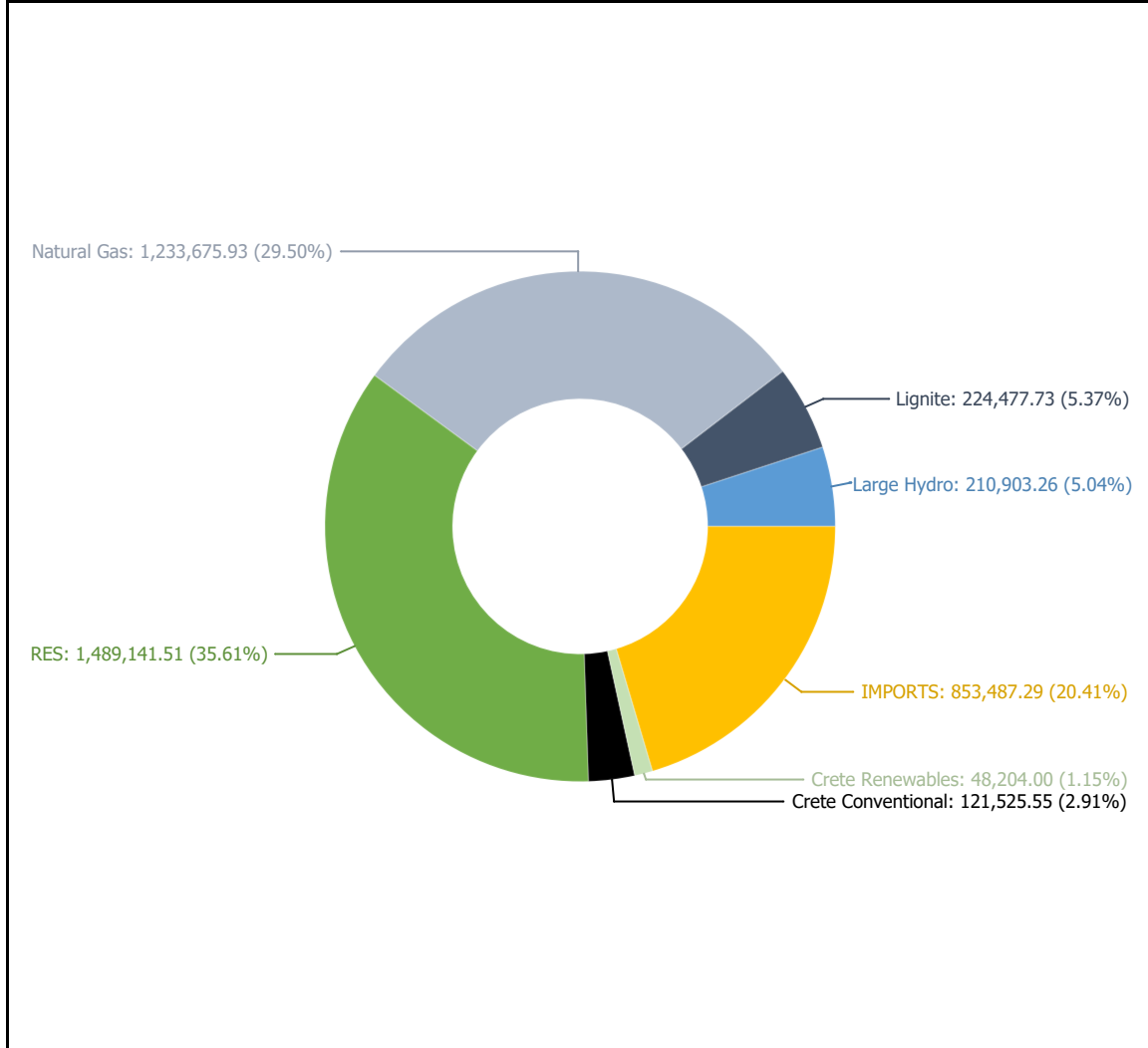
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Title	Energy Mix & MCP - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily



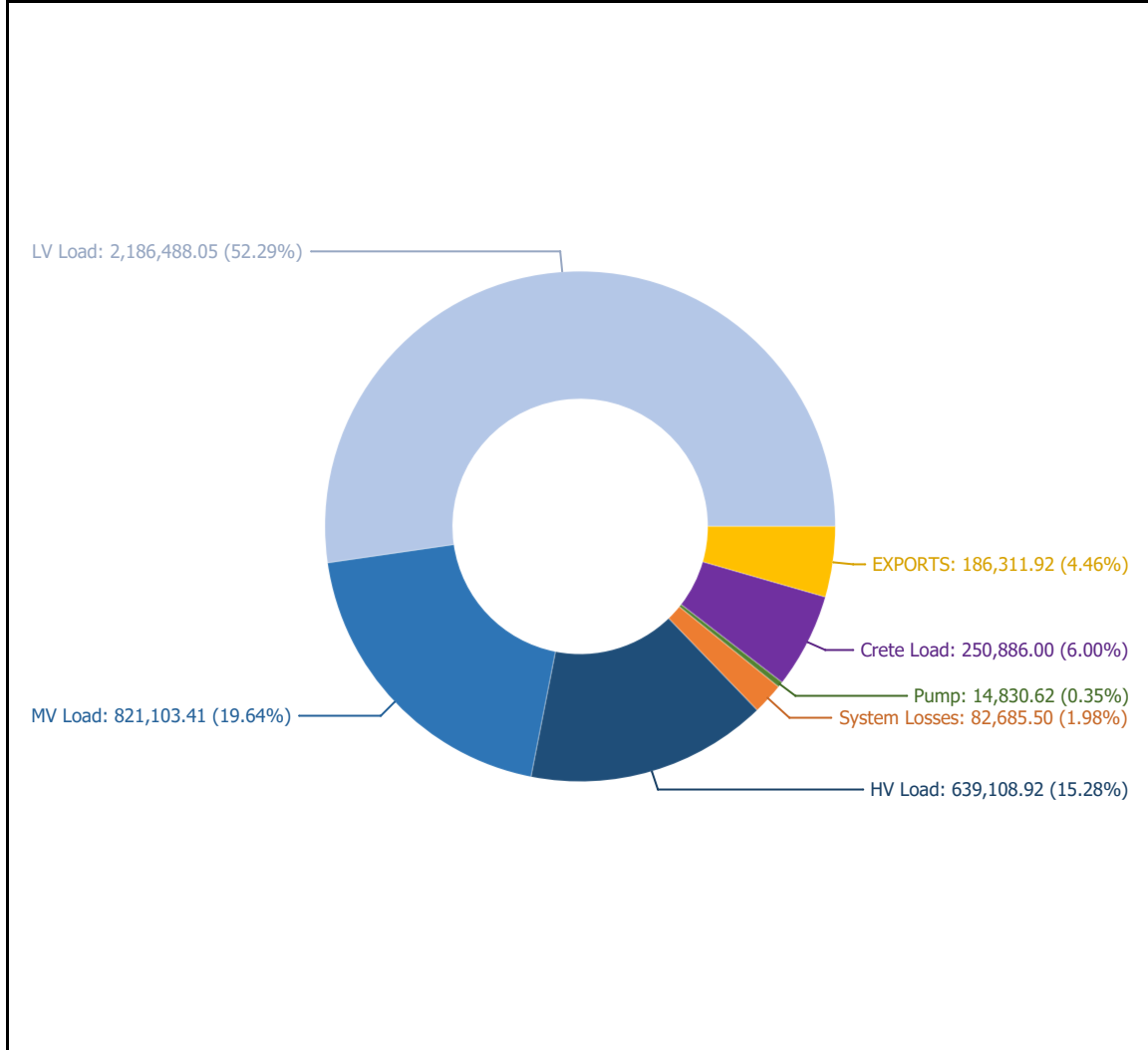
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Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily

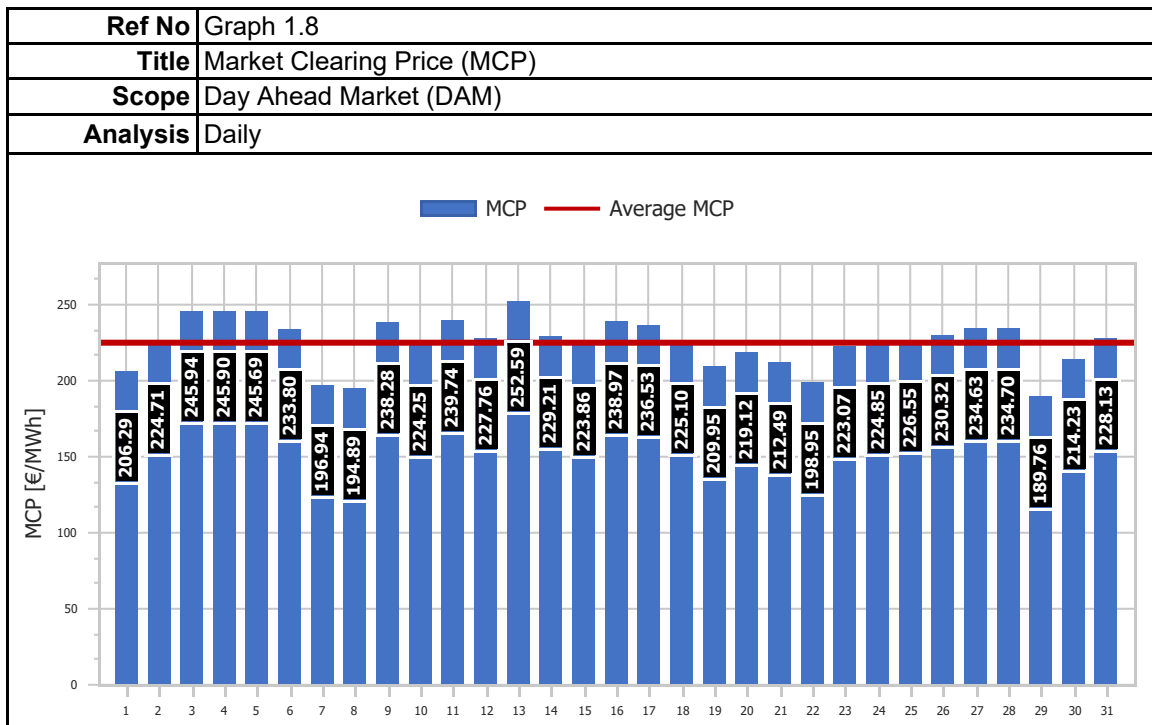
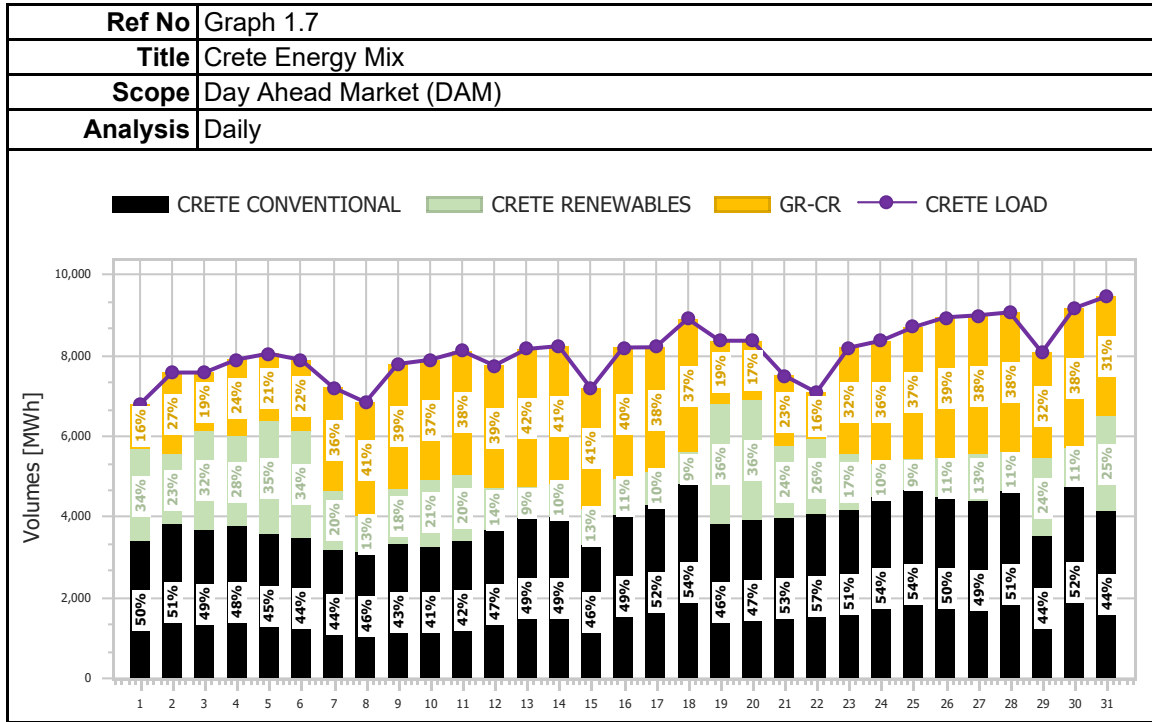


Ref No	Graph 1.5
Title	Energy Mix - SELL
Scope	Day Ahead Market (DAM)
Analysis	Daily

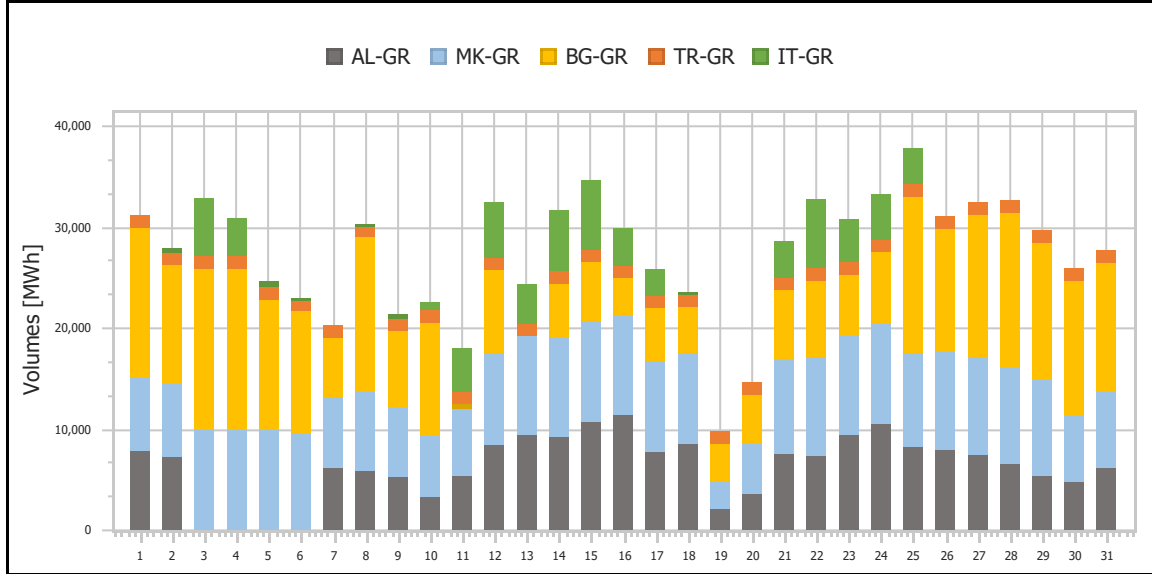


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Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily

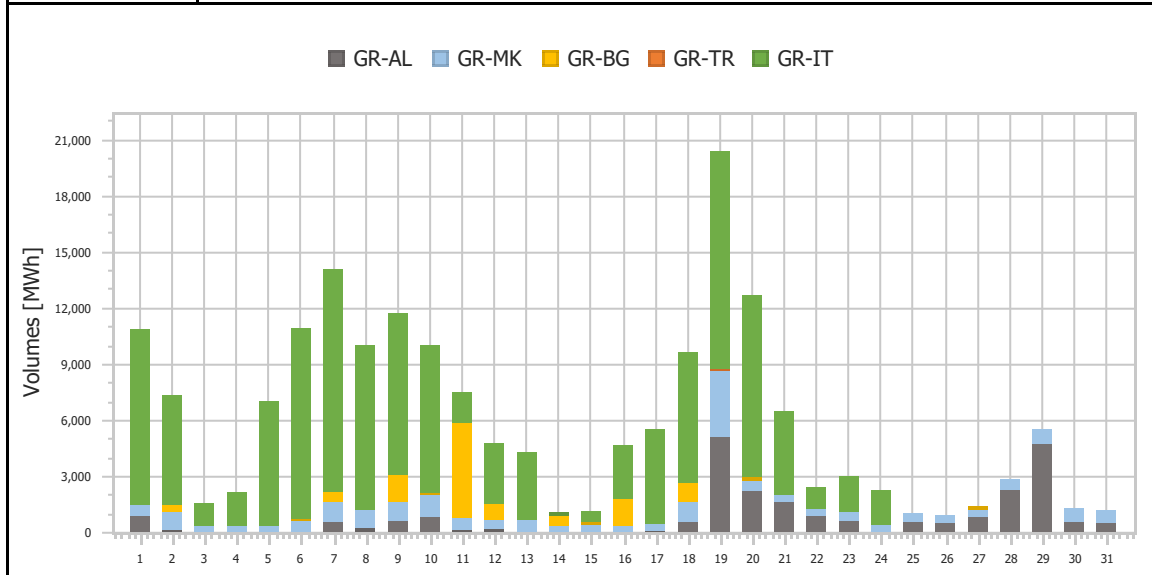




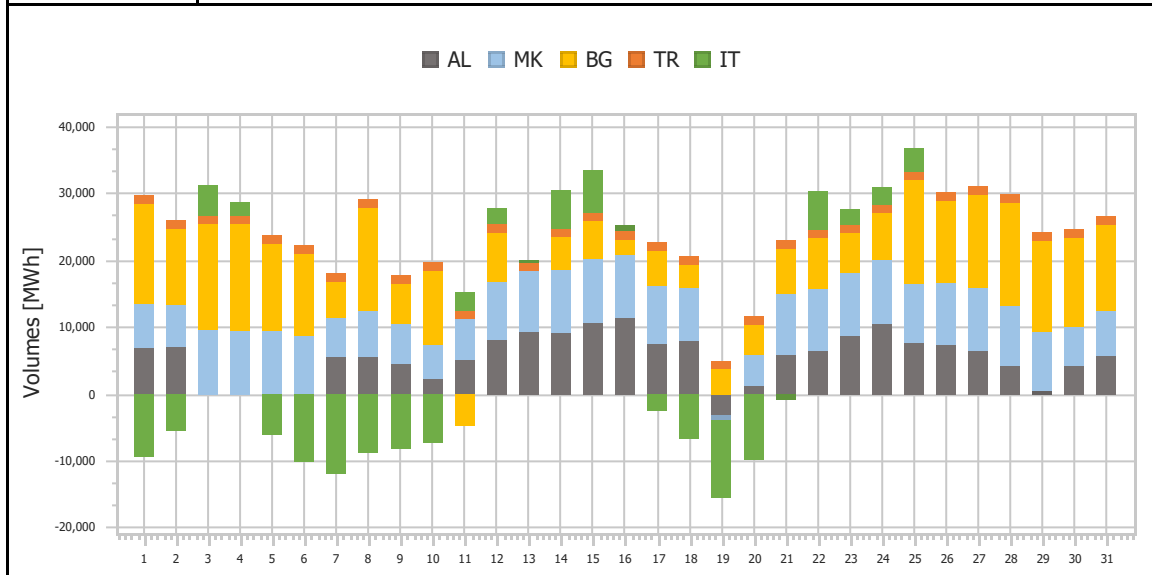
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Title	Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



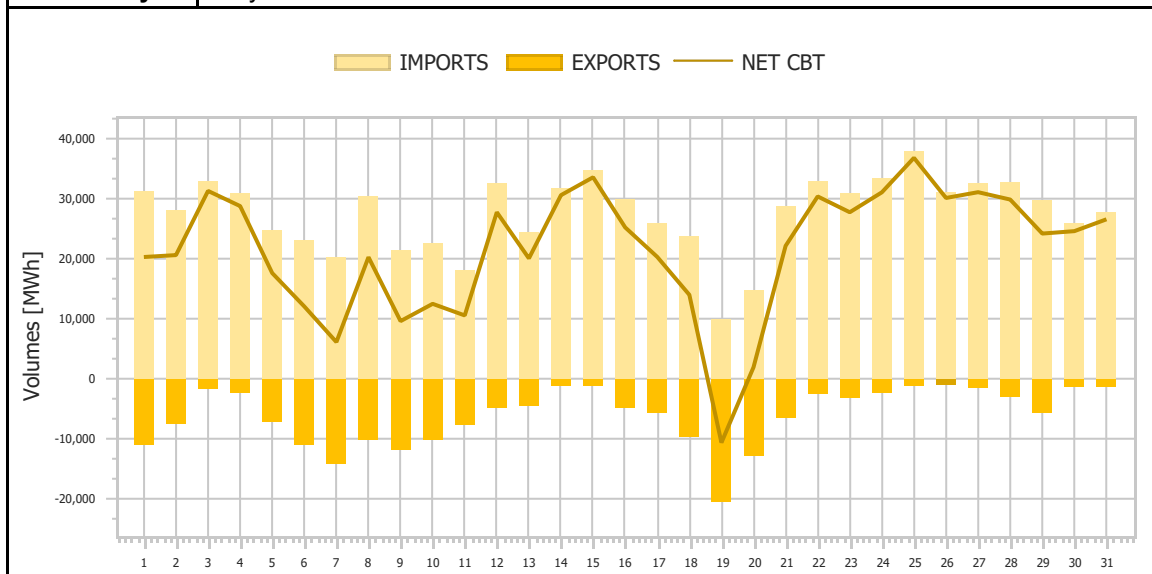
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Title	Exports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



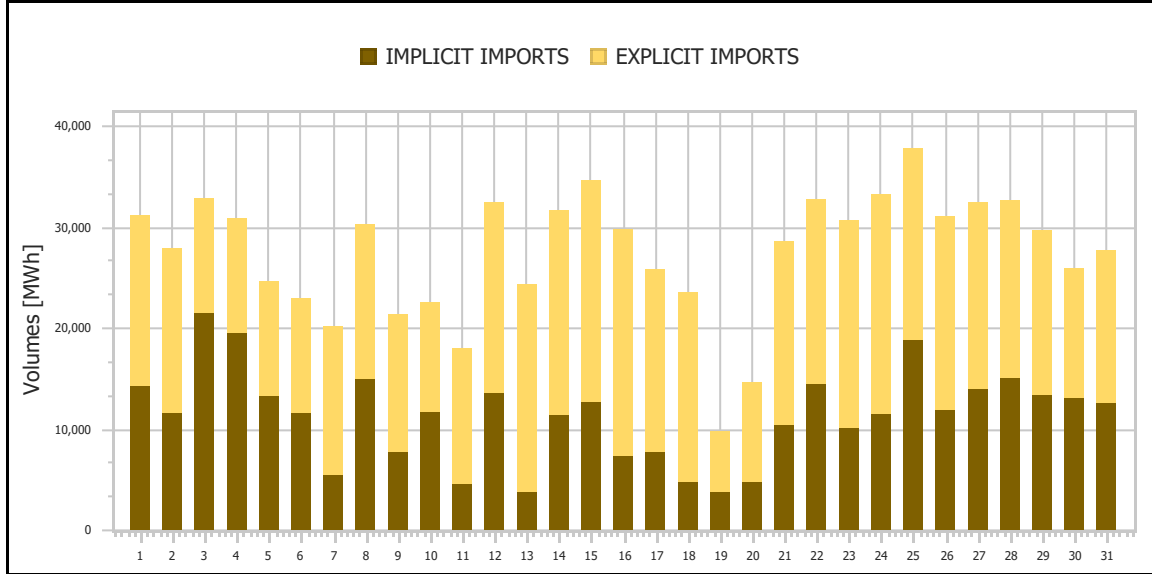
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Title	Net Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



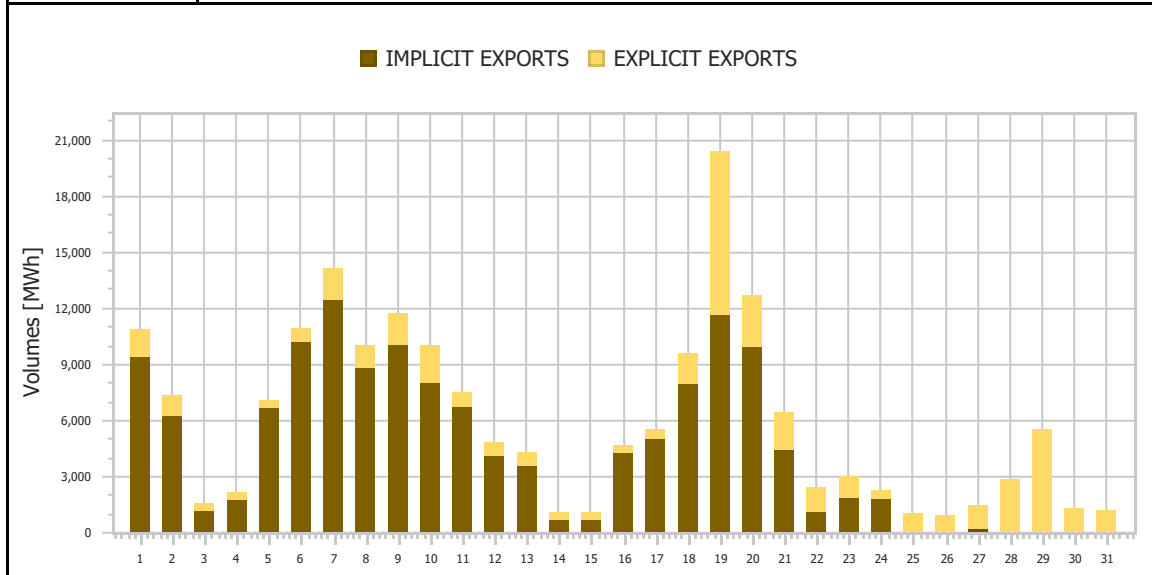
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Title	Total Imports & Exports
Scope	Day Ahead Market (DAM)
Analysis	Daily

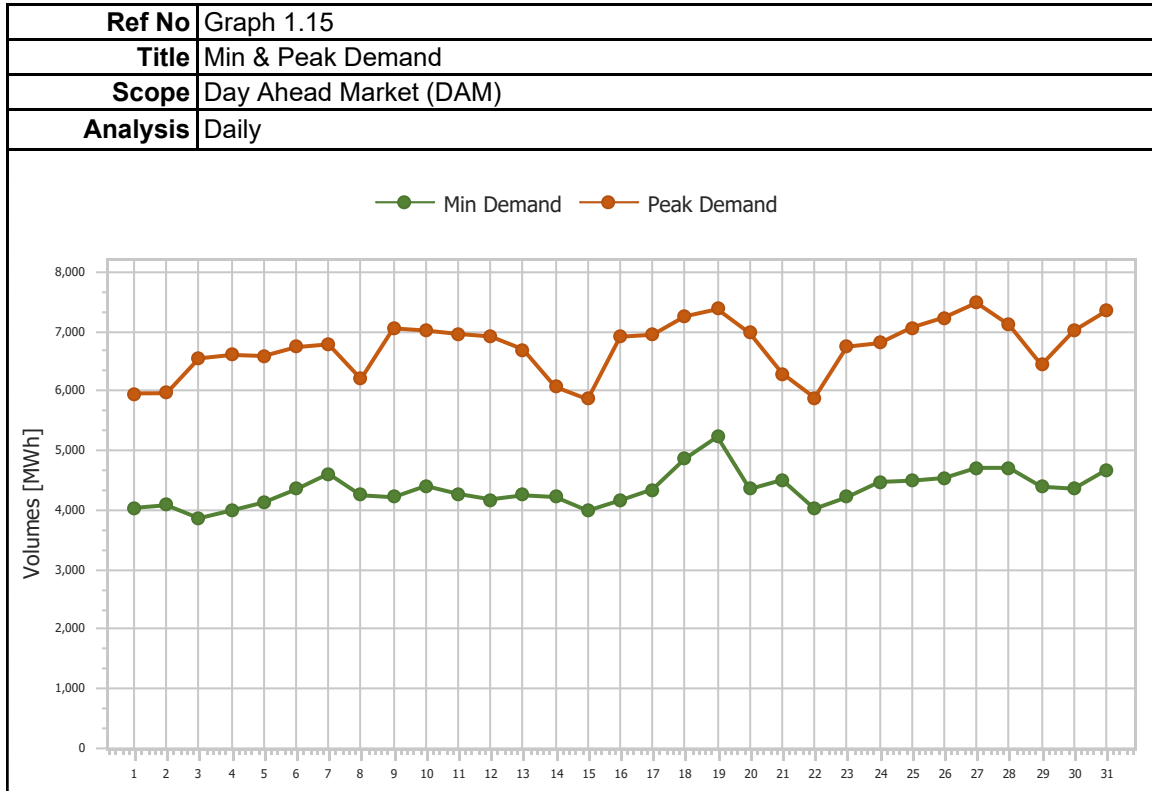


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Title	Imports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Daily

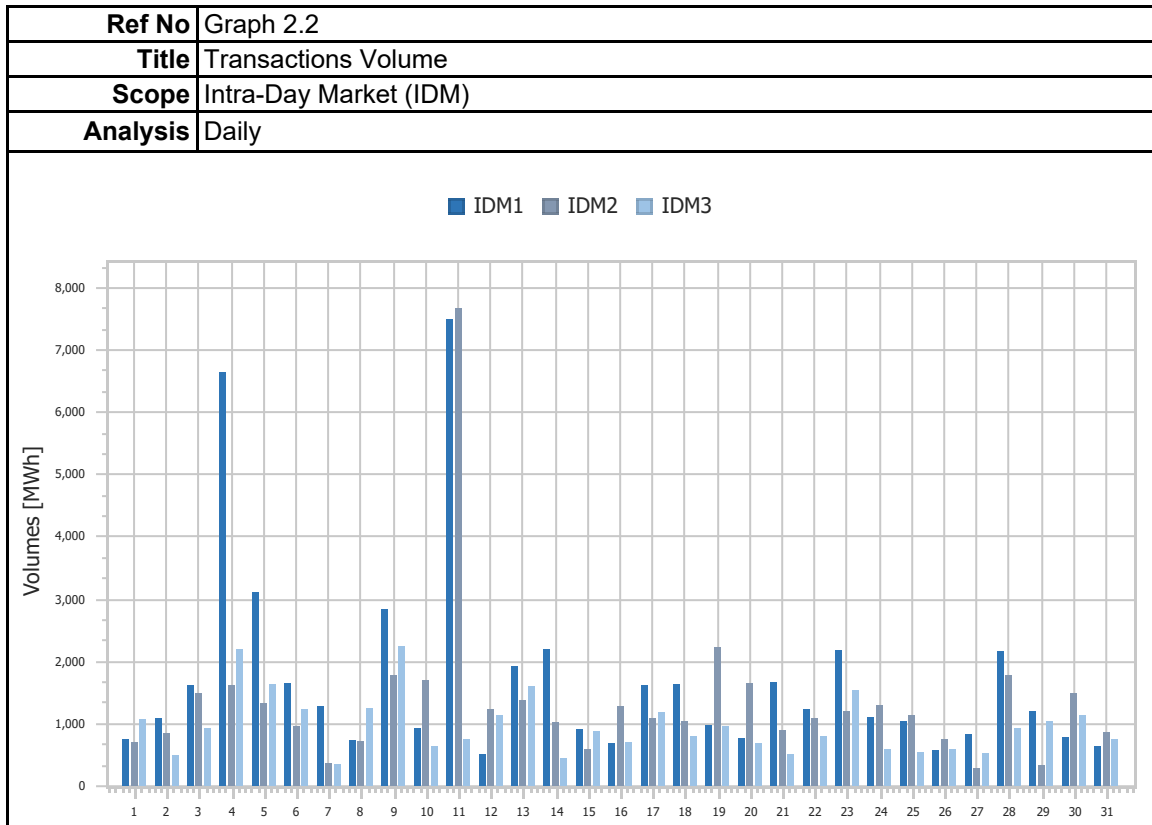
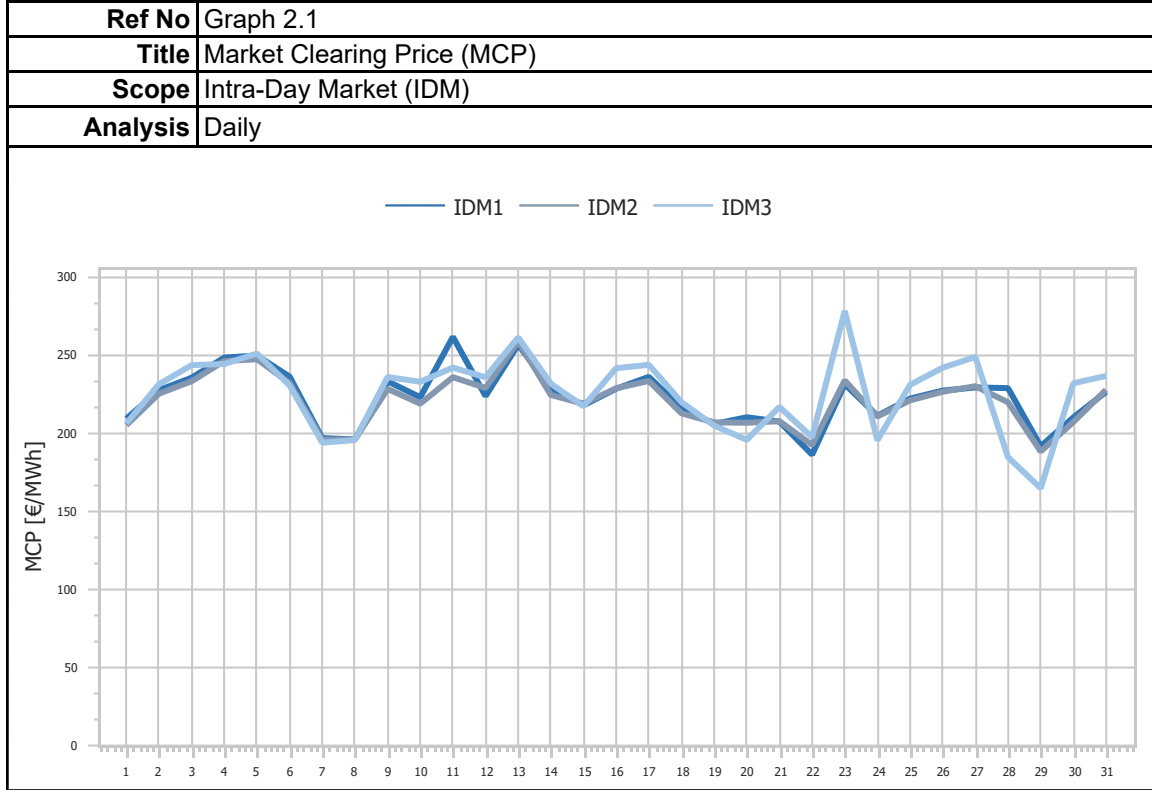


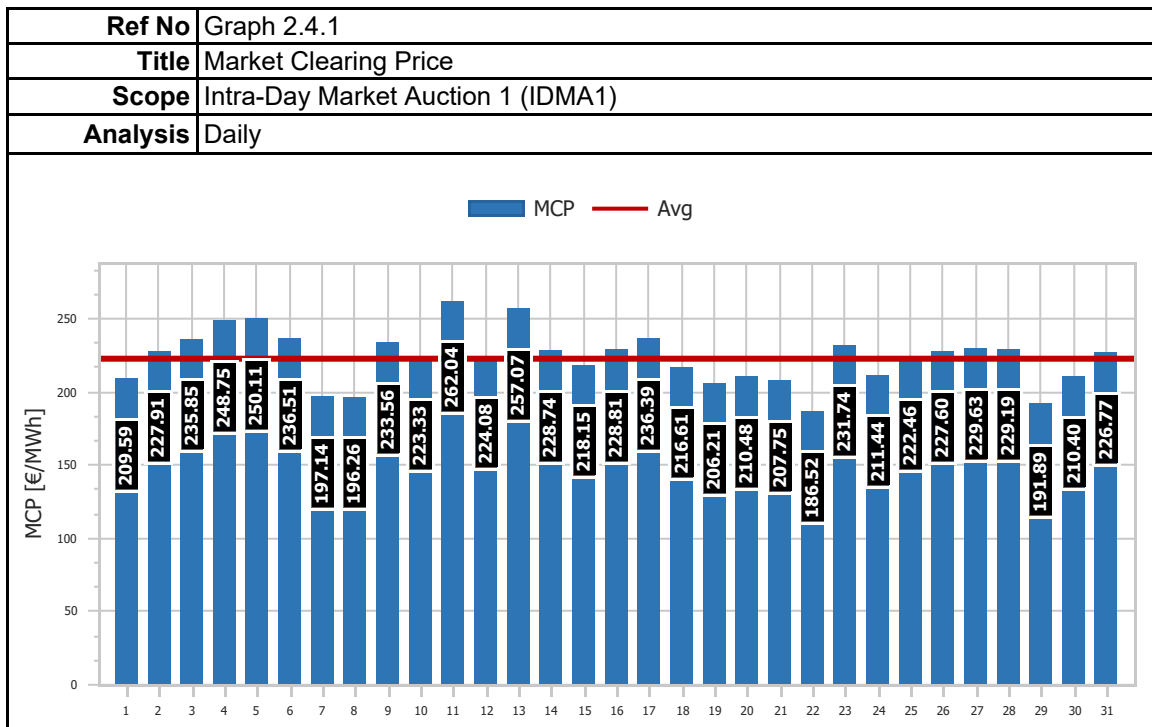
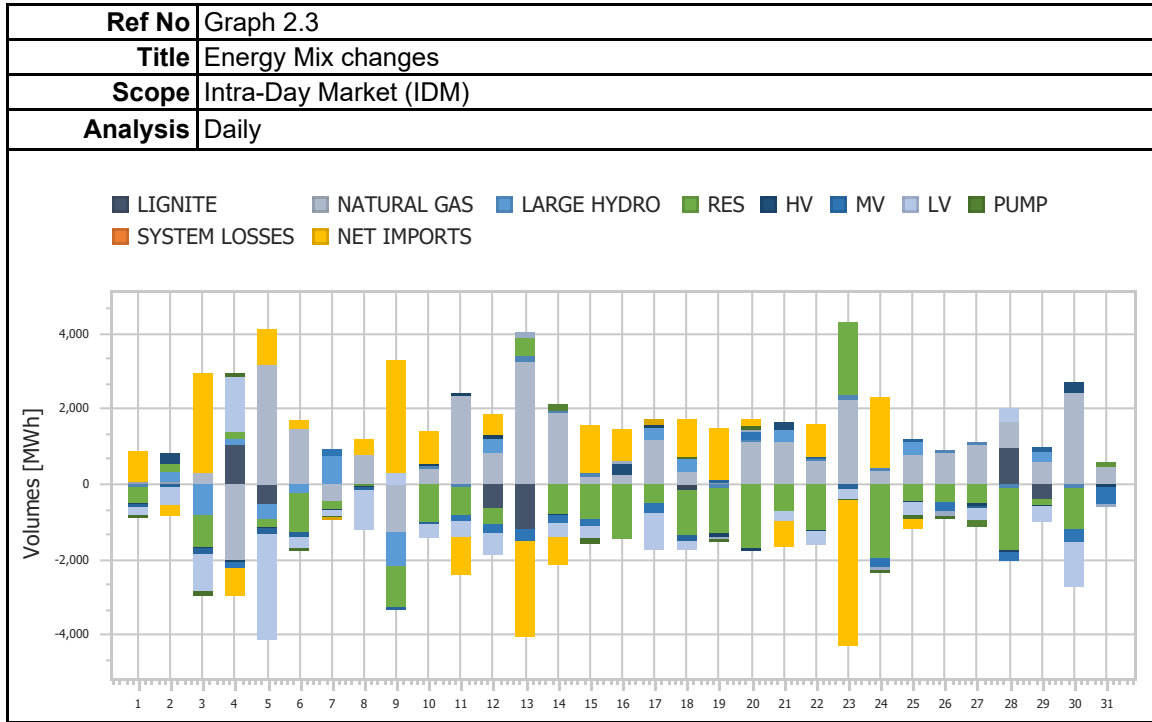
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Title	Exports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Monthly



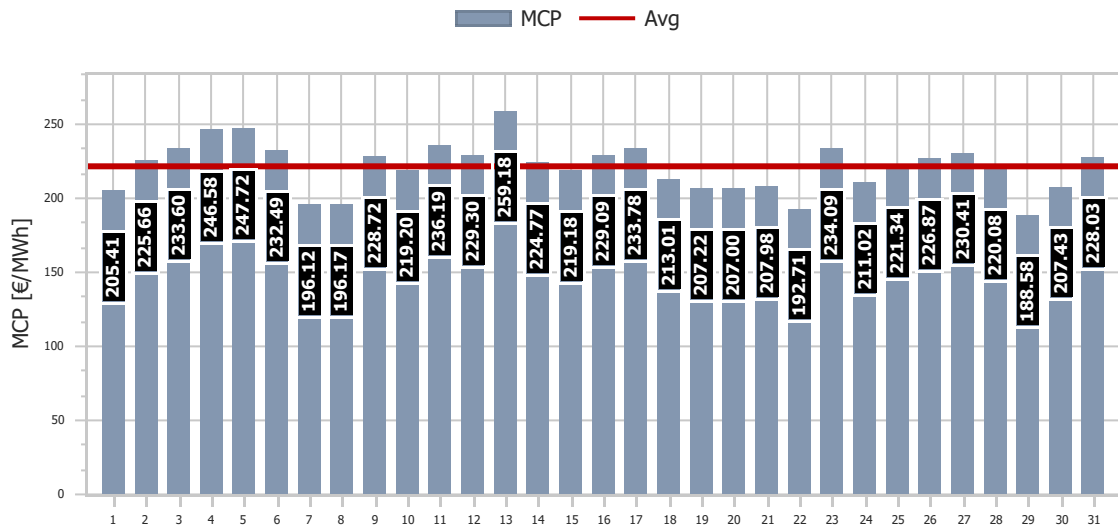


2. Intra-Day Market (IDM)

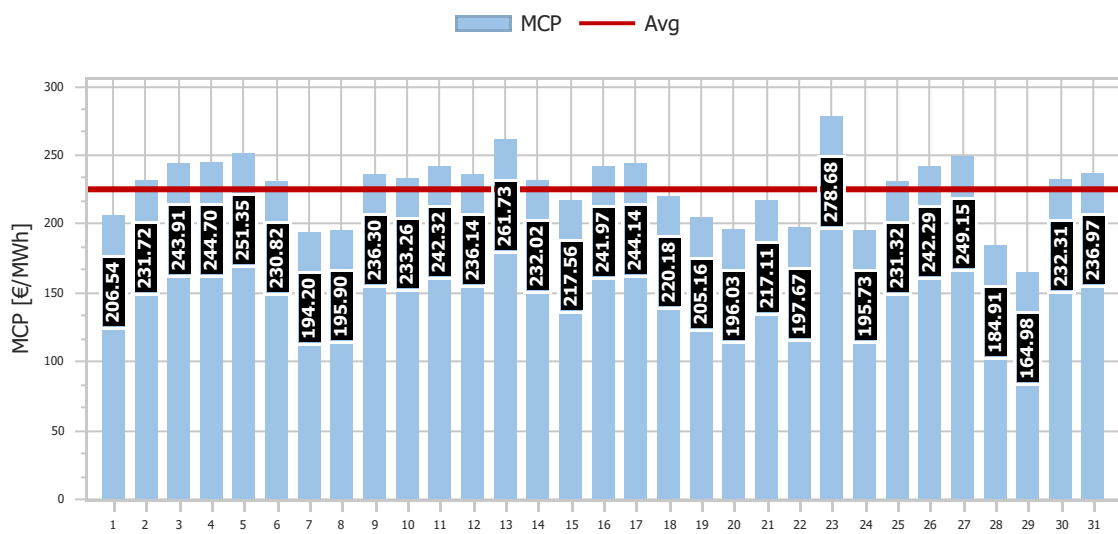




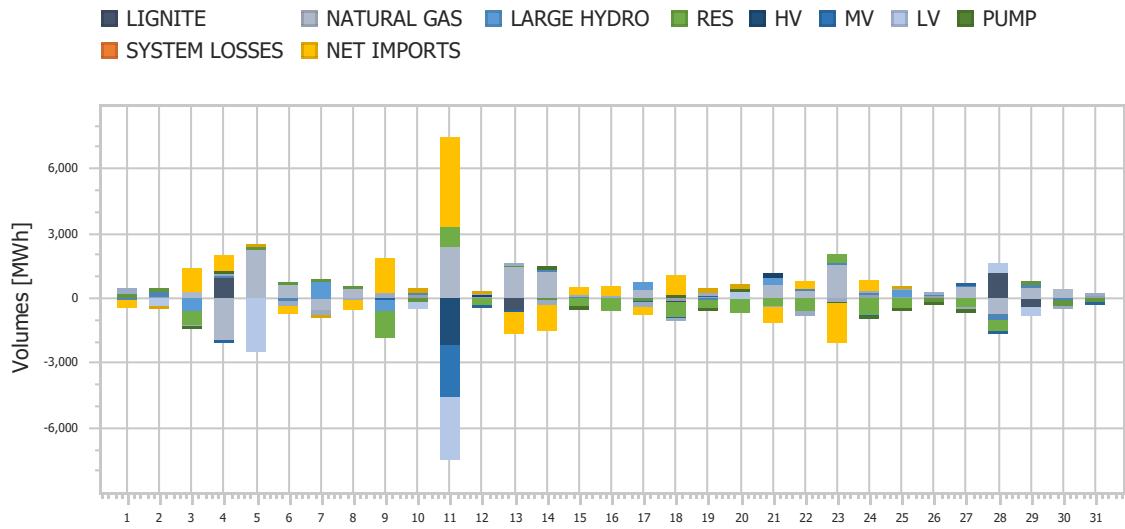
Ref No	Graph 2.4.2
Title	Market Clearing Price
Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



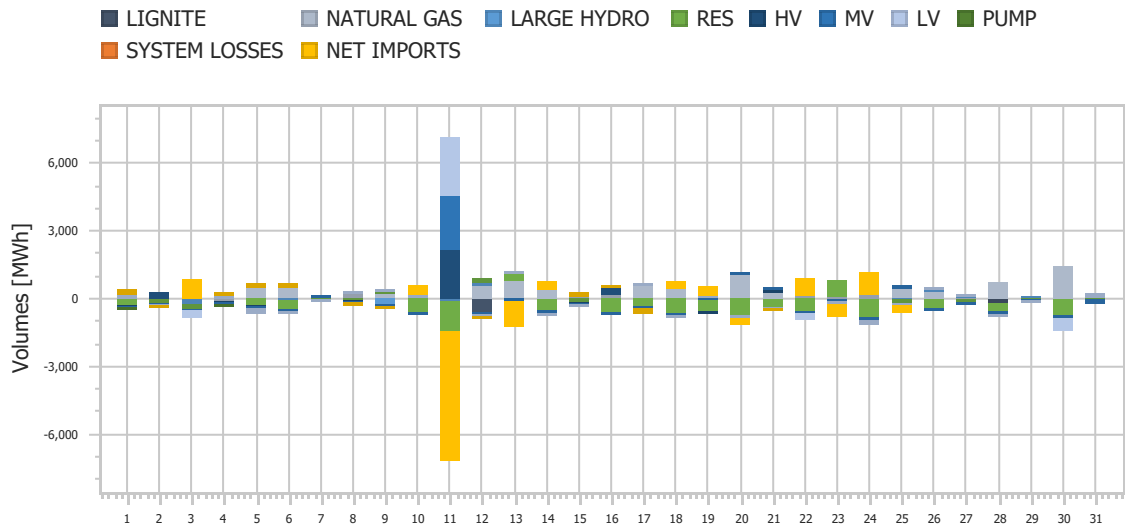
Ref No	Graph 2.4.3
Title	Market Clearing Price
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily



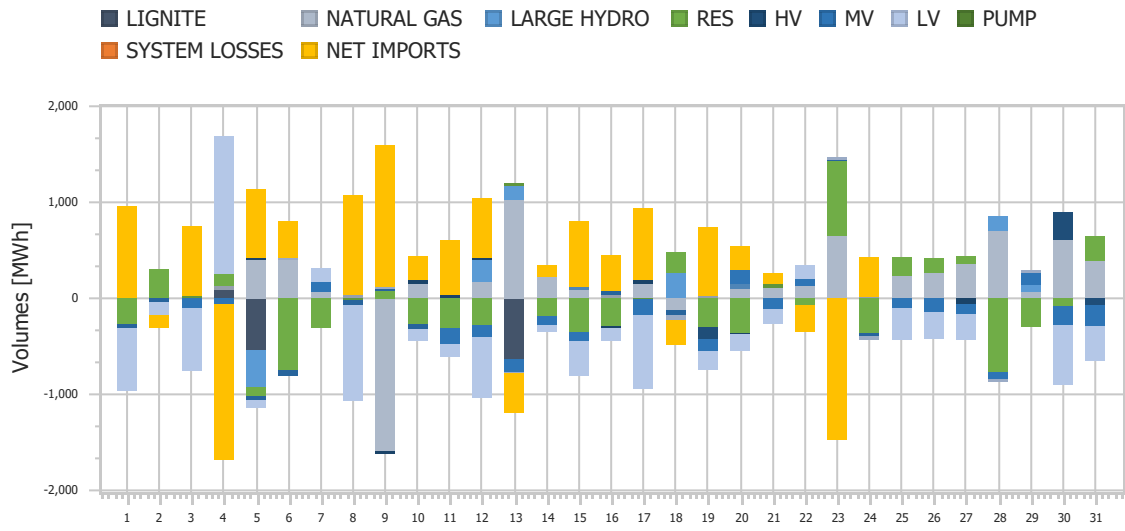
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Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 1 (IDMA1)
Analysis	Daily



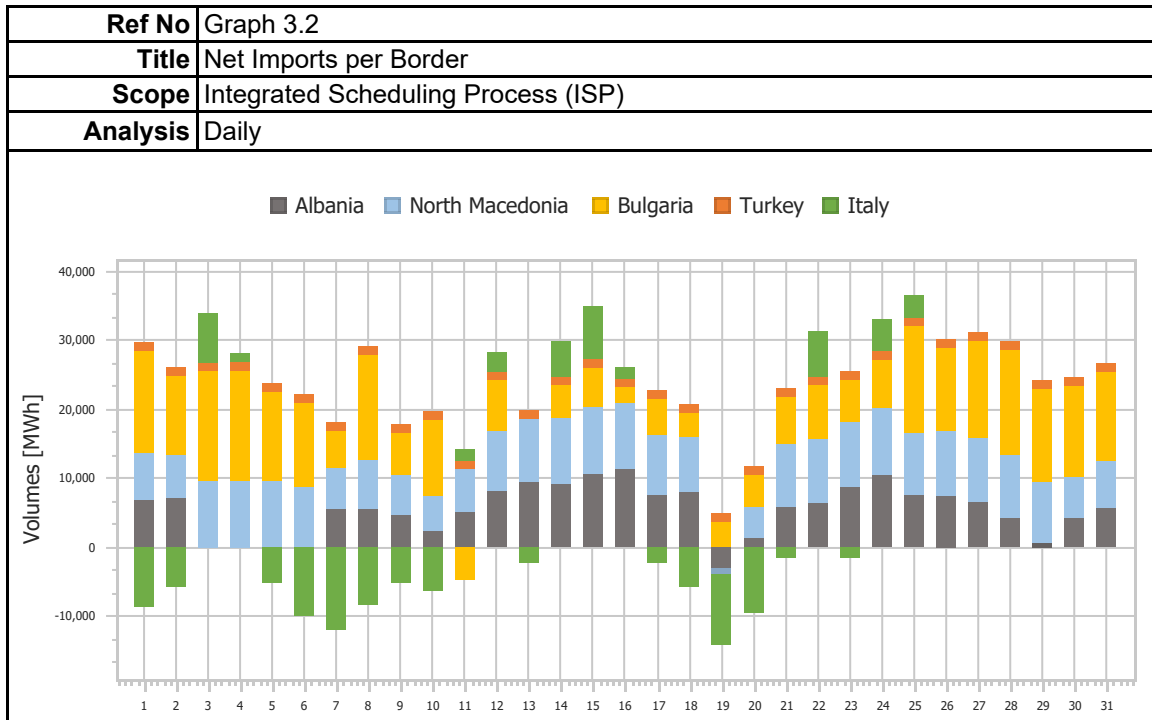
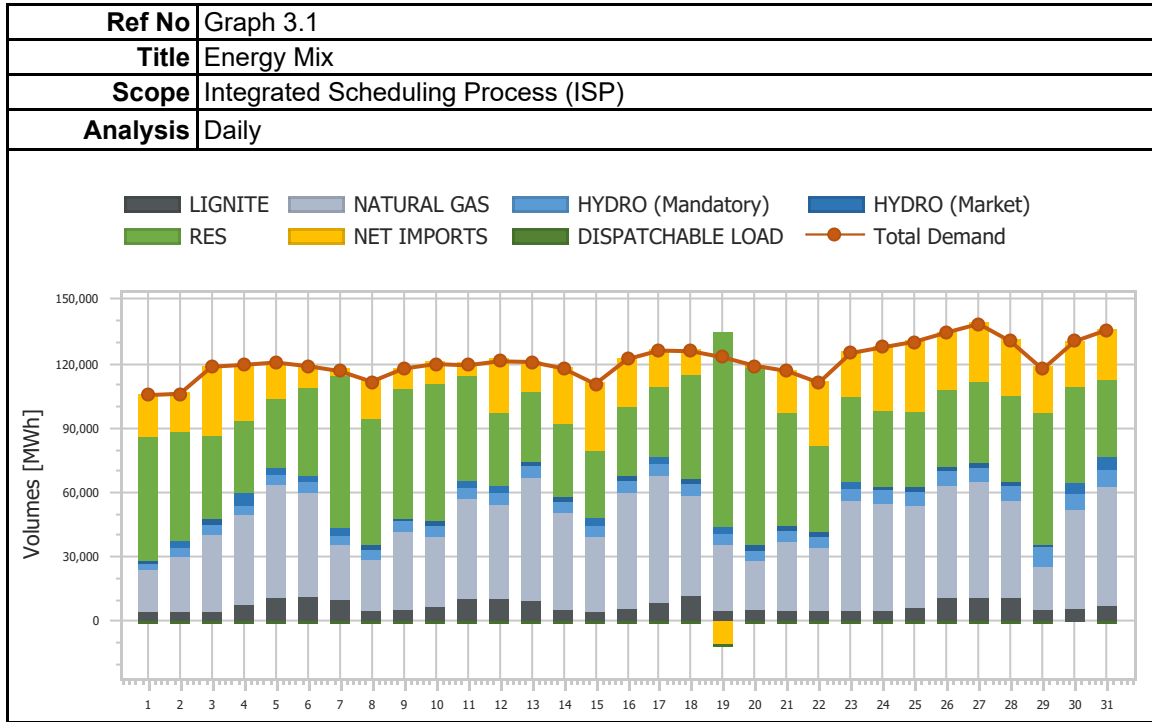
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Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



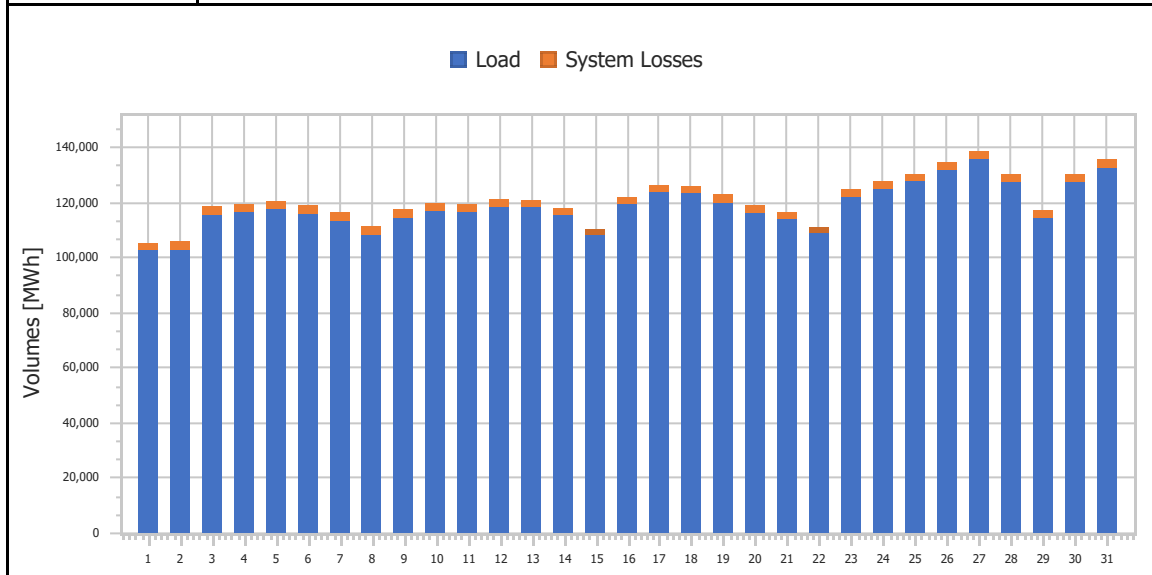
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Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily



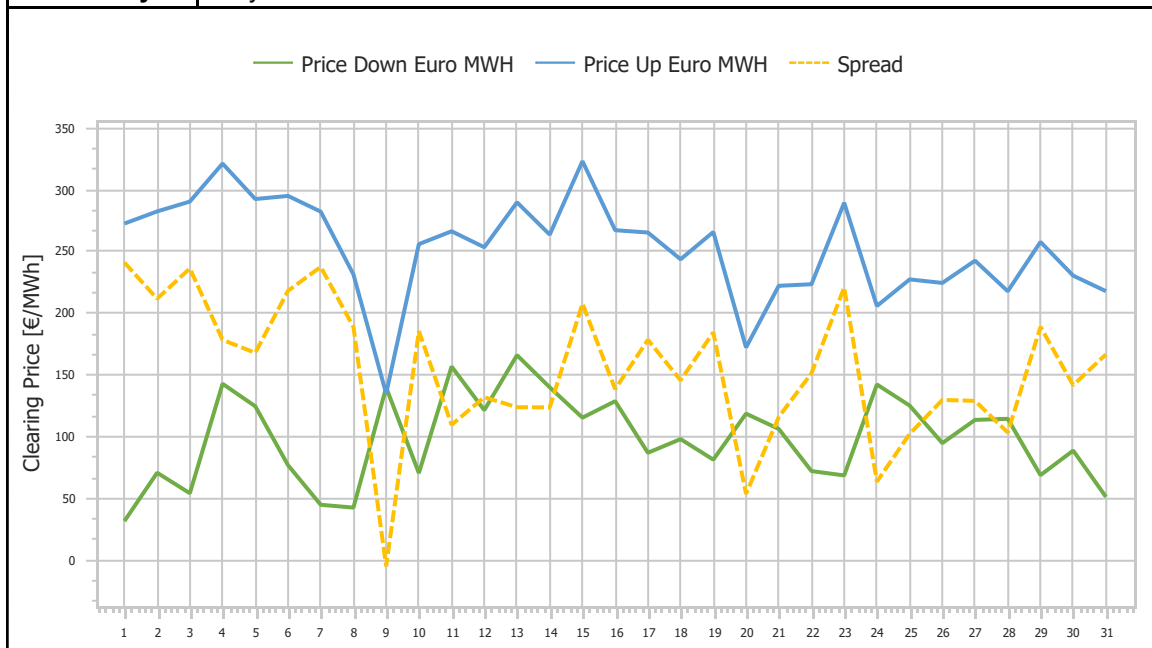
3. Integrated Scheduling Process (ISP)



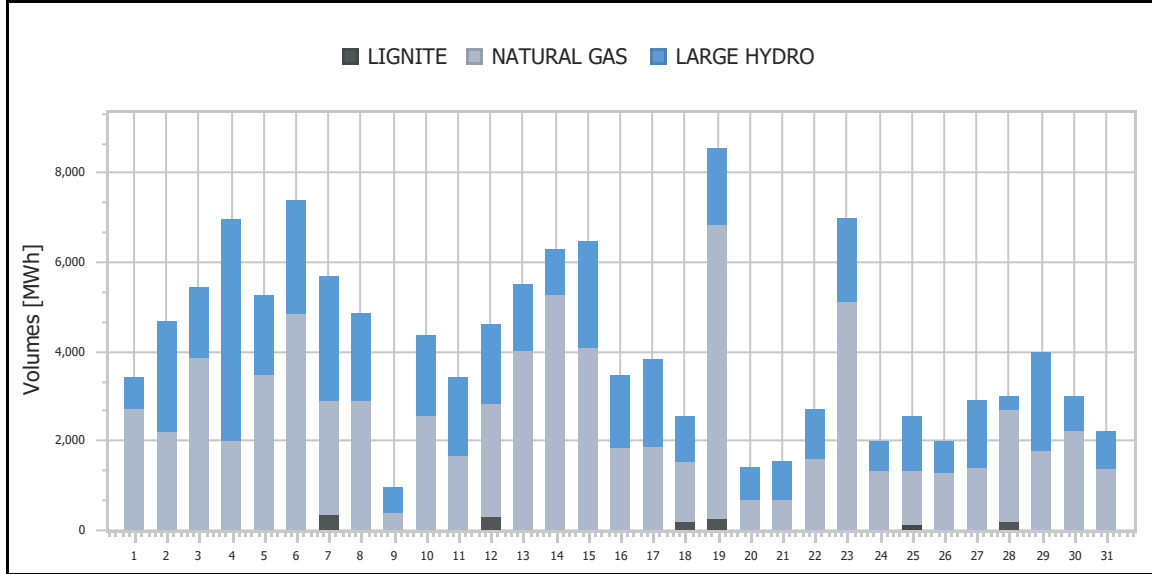
Ref No	Graph 3.3
Title	Demand & System Losses
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



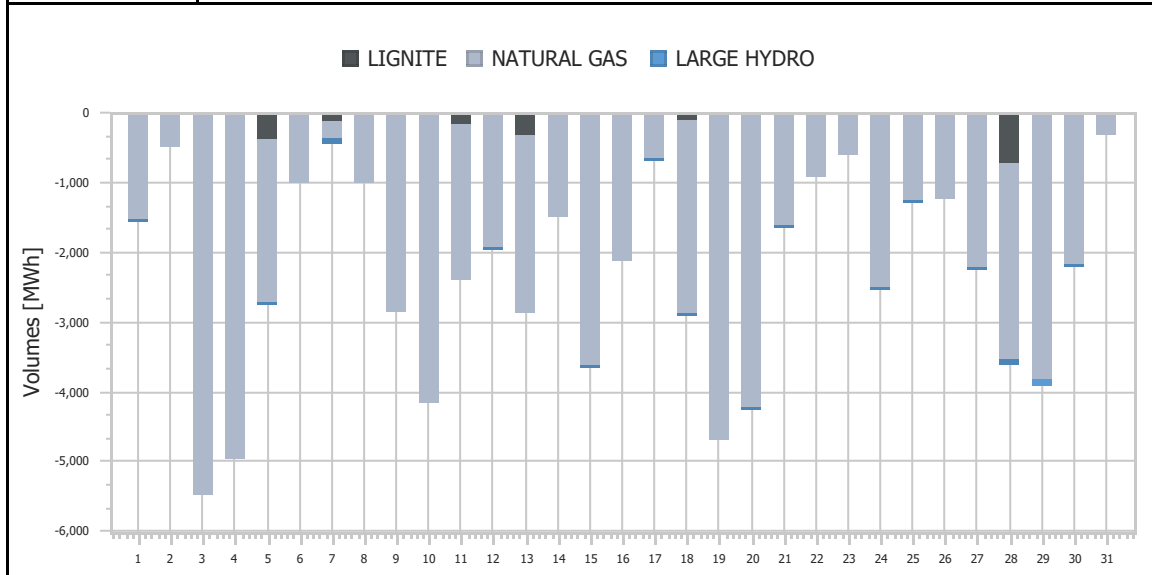
Ref No	Graph 3.4
Title	Clearing Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



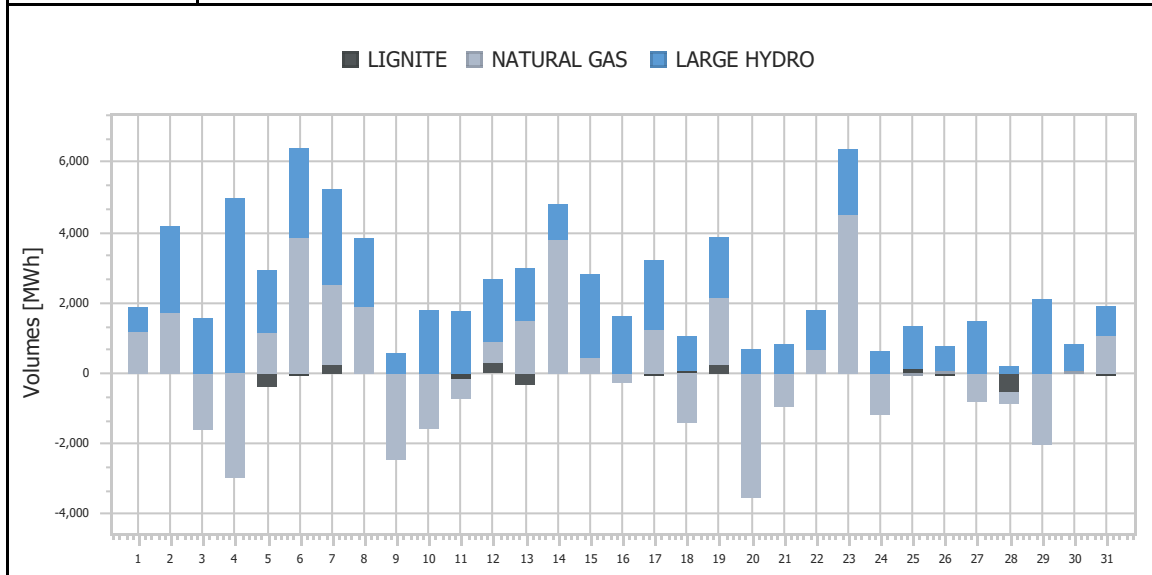
Ref No	Graph 3.5
Title	Upward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



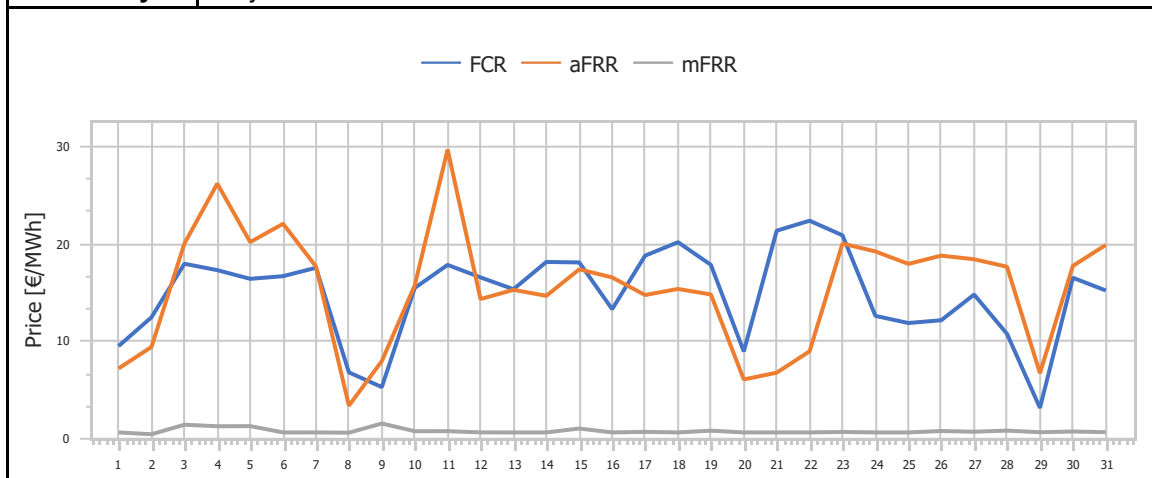
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Title	Downward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



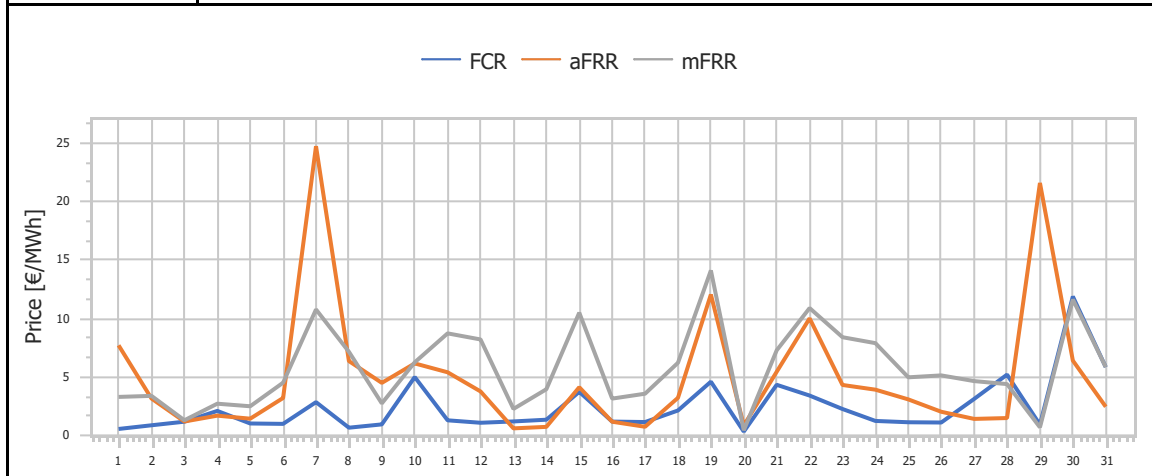
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Title	Net Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



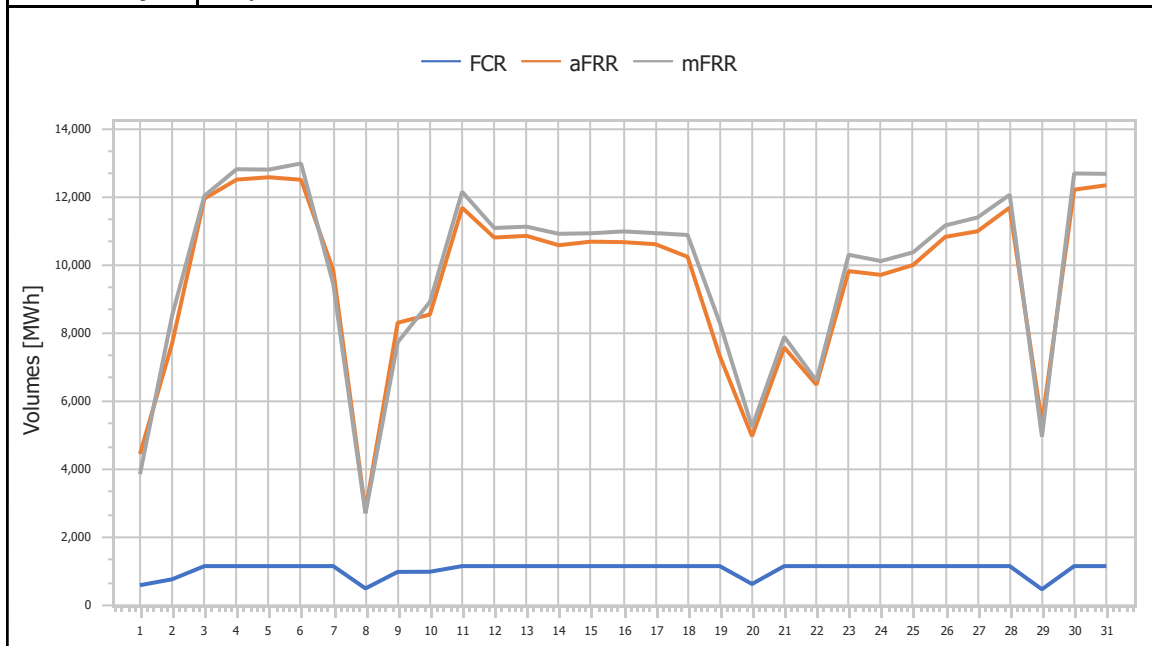
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Title	Upward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



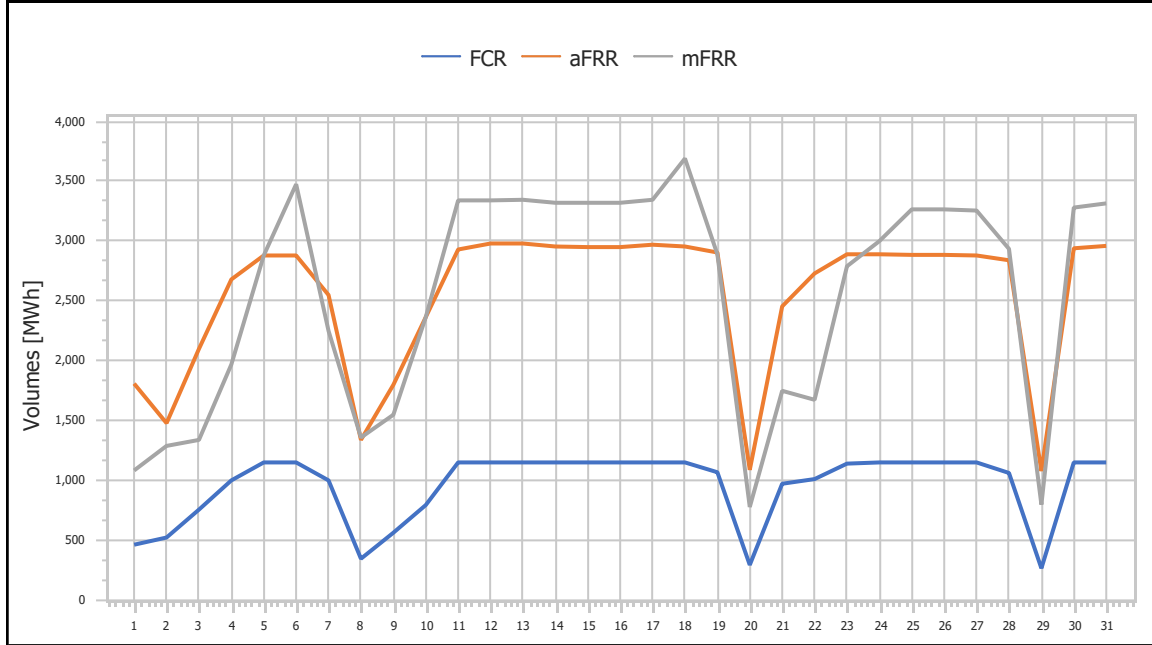
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Title	Downward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



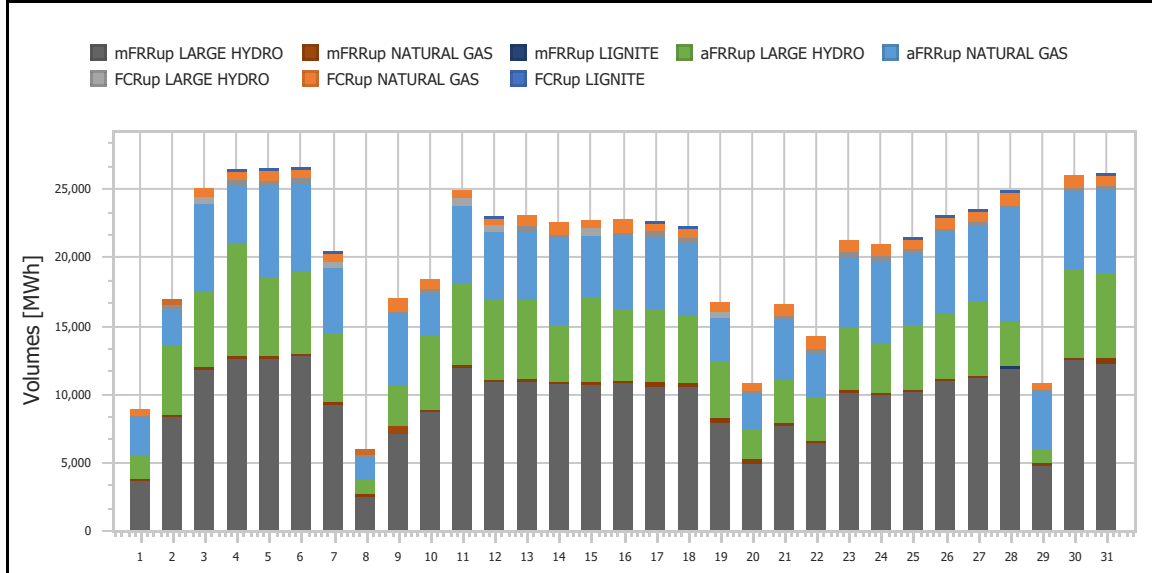
Ref No	Graph 3.10
Title	Upward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

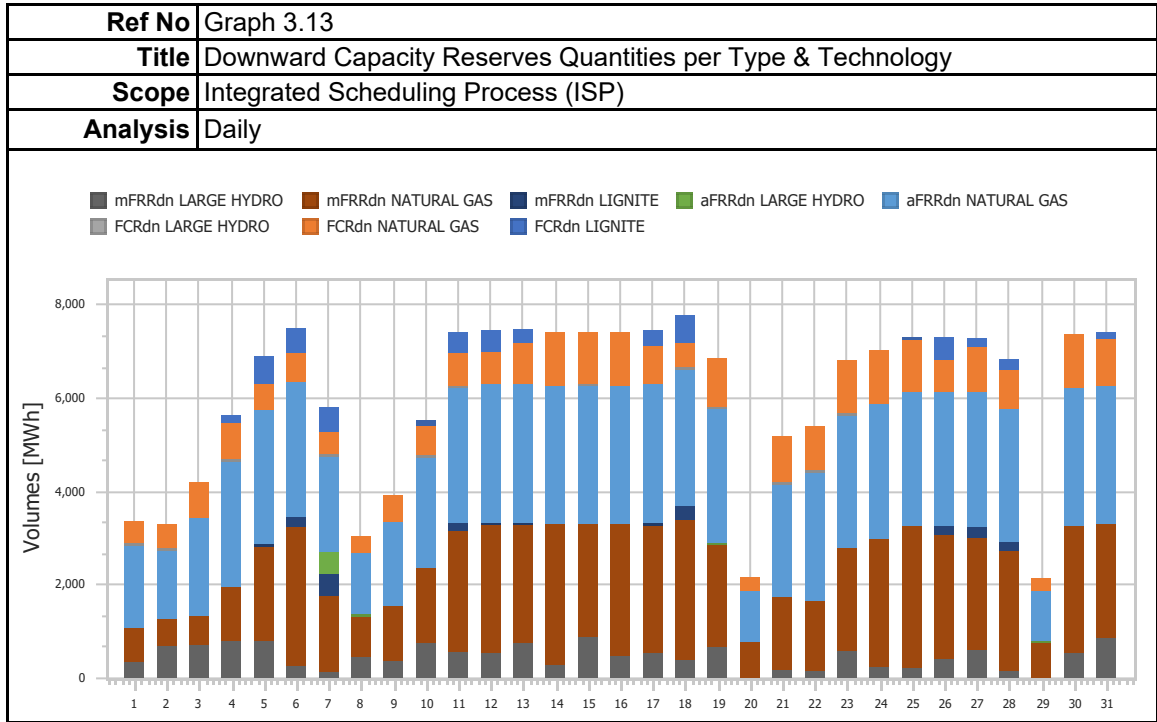


Ref No	Graph 3.11
Title	Downward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

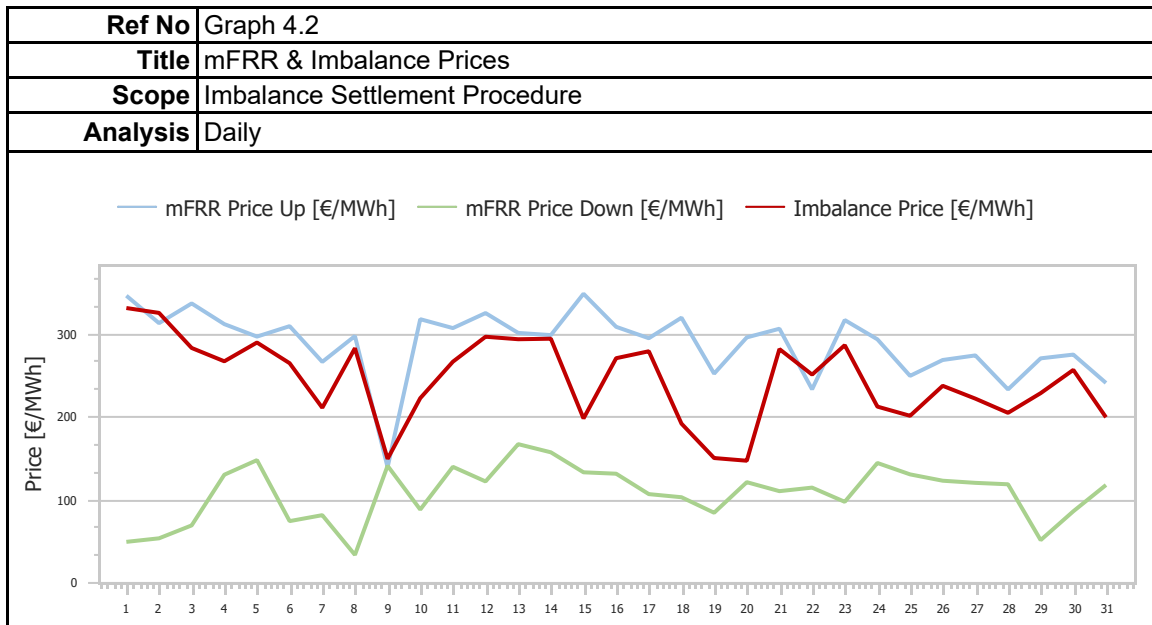
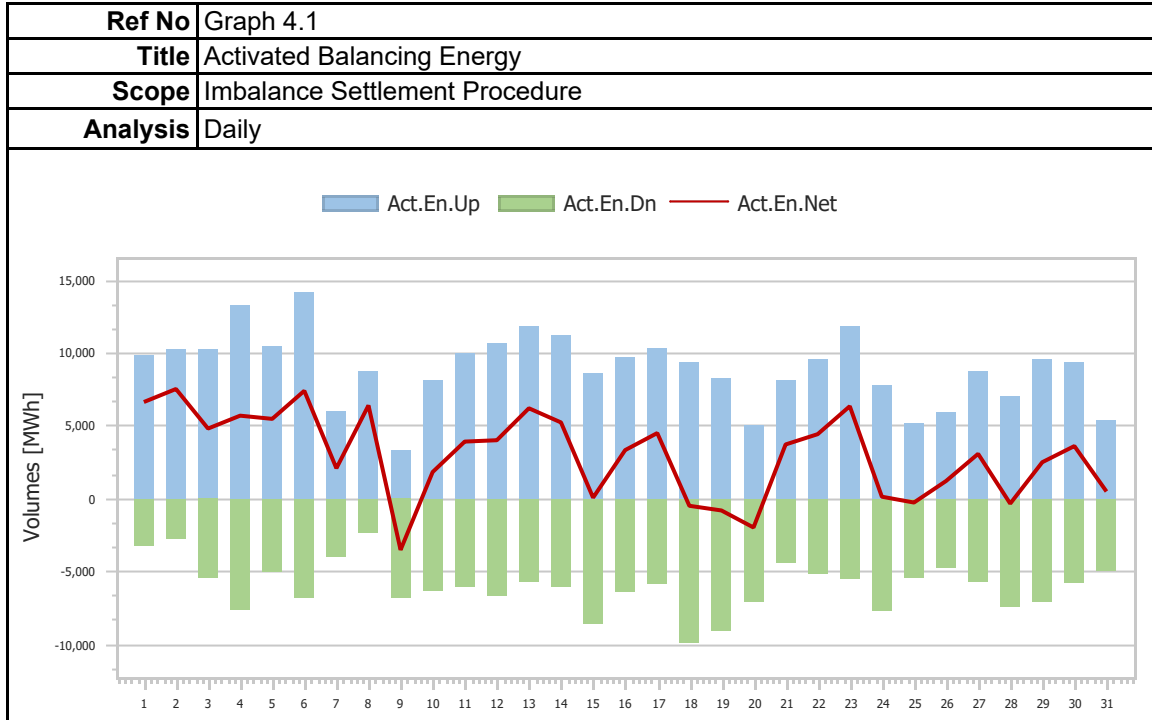


Ref No	Graph 3.12
Title	Upward Capacity Reserves Volumes per Technology
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

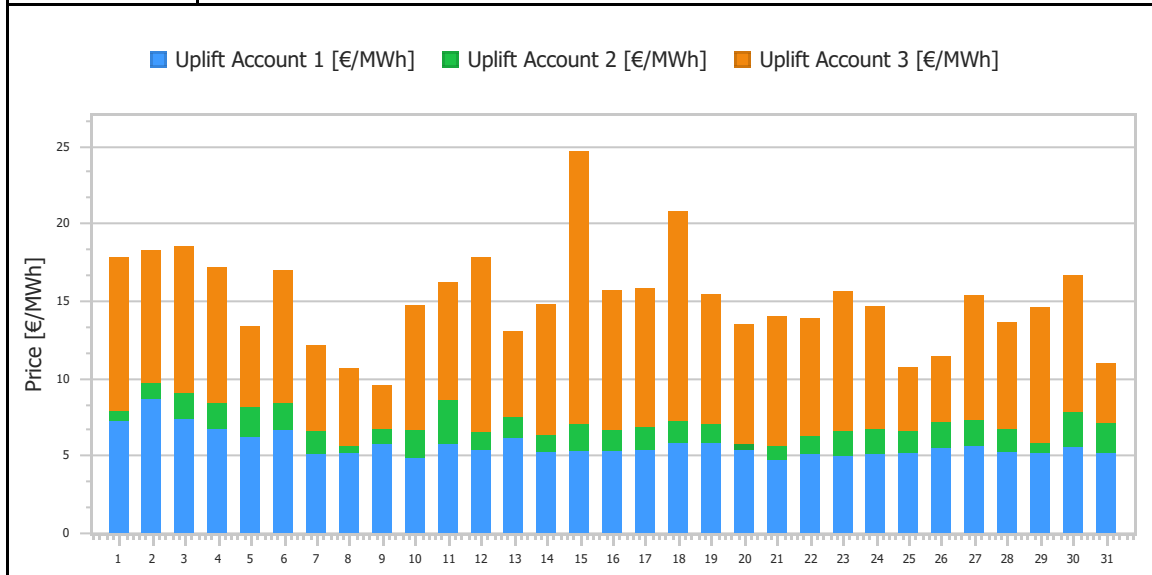




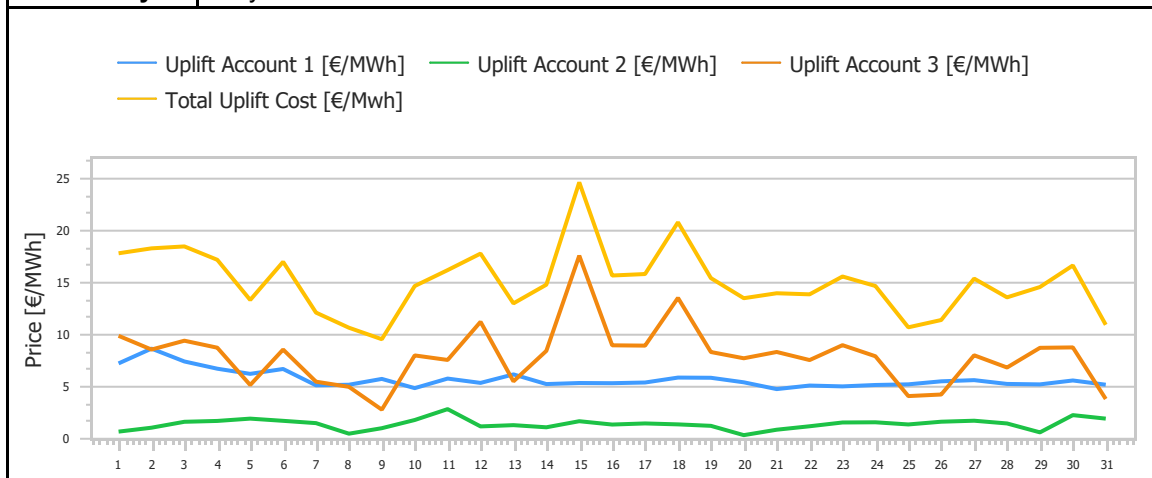
4. Imbalance Settlement Procedure



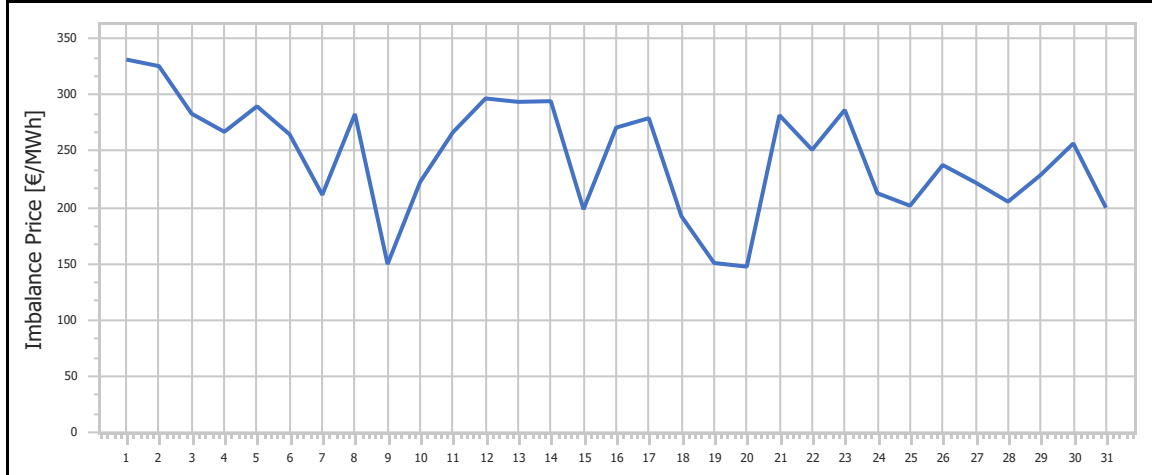
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



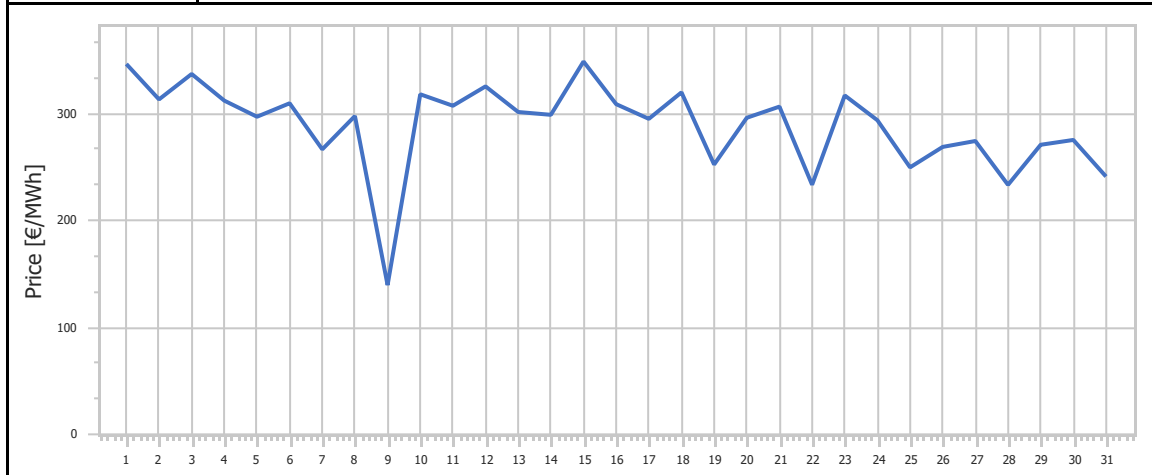
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



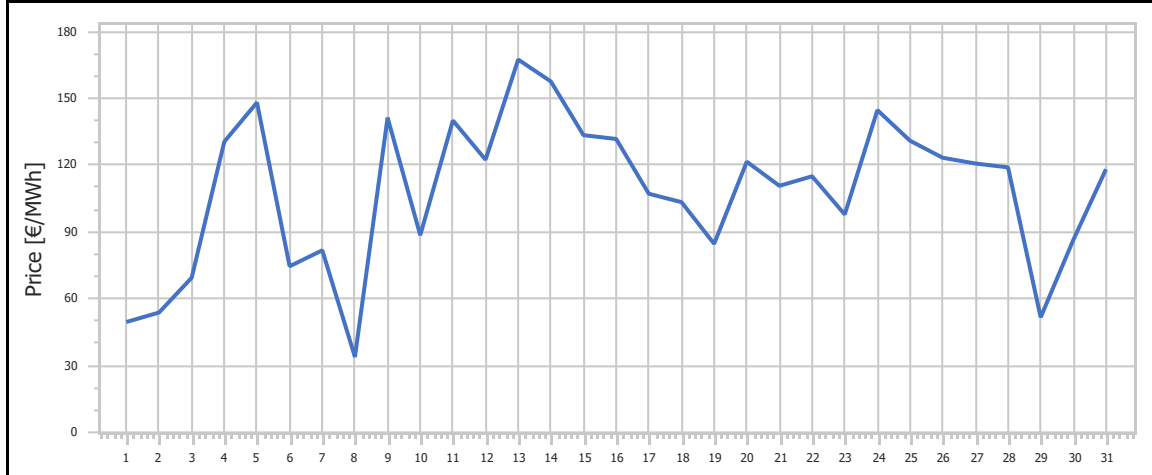
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Title	Imbalance Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



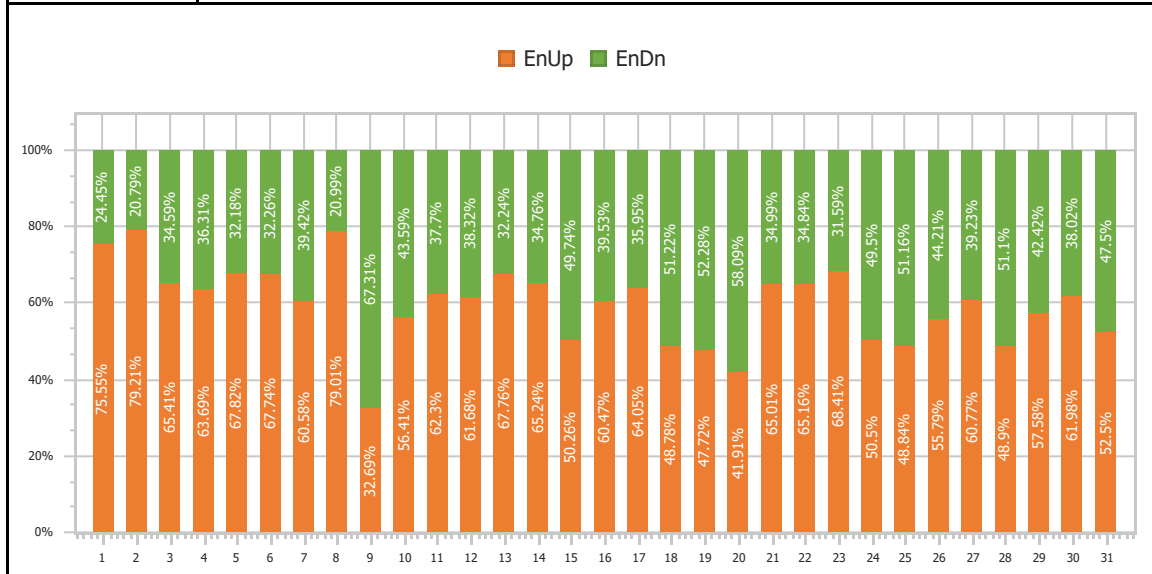
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Title	mFRR Up Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



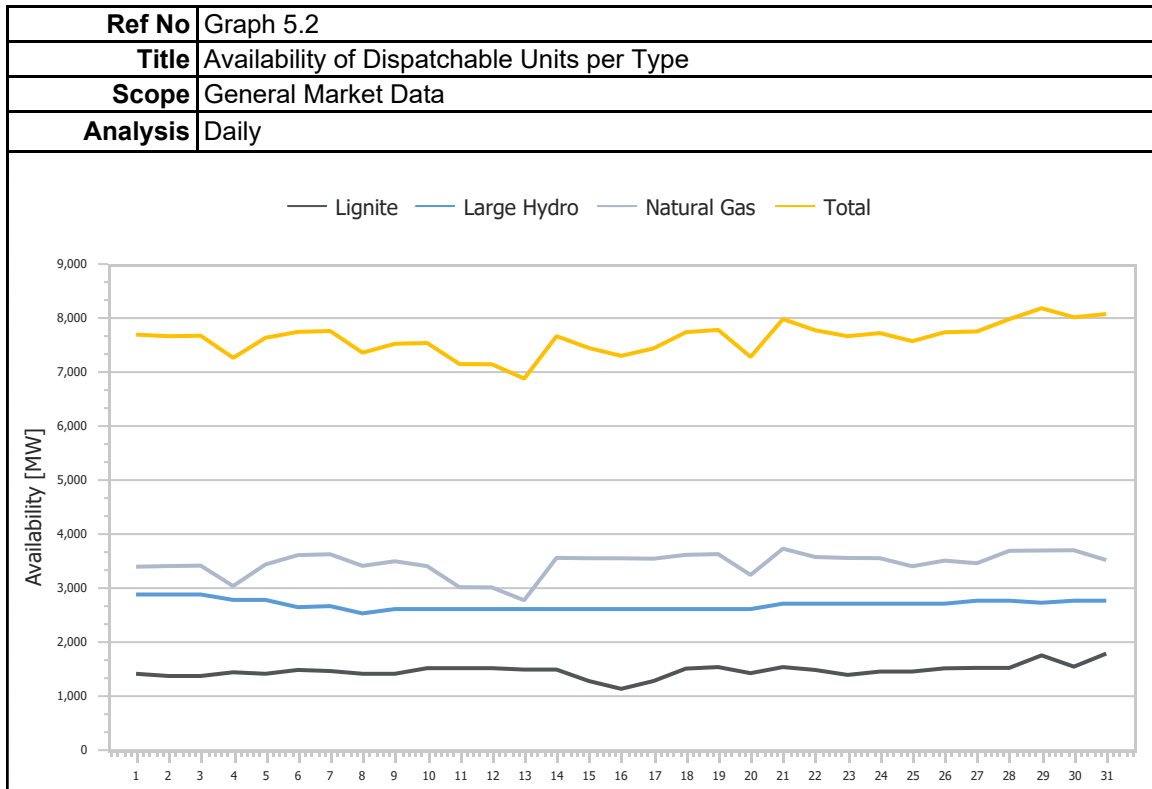
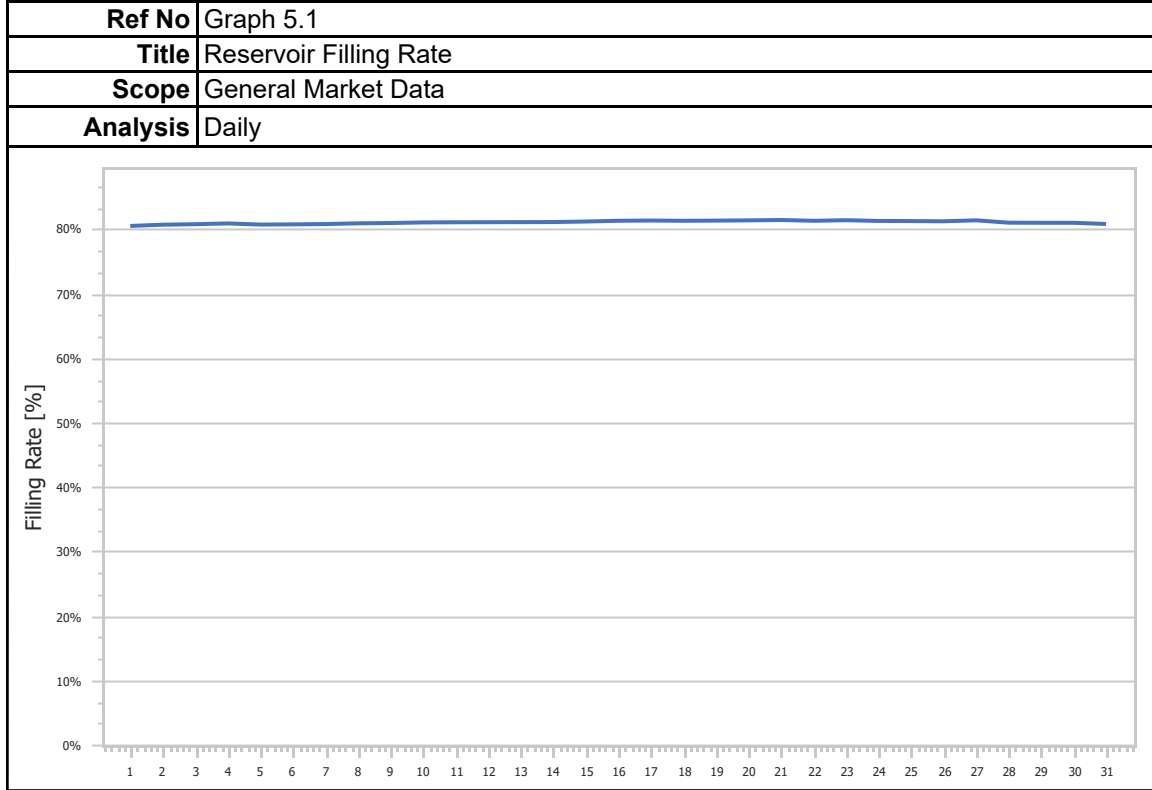
Ref No	Graph 4.7
Title	mFRR Down Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



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	224,477.734	5.37%	51,659,242.38€	5.47%
Crete Conventional	121,525.550	2.91%	27,681,007.32€	2.93%
Natural Gas	1,233,675.930	29.50%	289,793,890.55€	30.68%
Large Hydro	210,903.257	5.04%	52,579,881.57€	5.57%
RES	1,489,141.507	35.61%	319,989,430.74€	33.88%
Crete Renewables	48,204.000	1.15%	10,583,757.33€	1.12%
Imports	853,487.290	20.41%	192,139,061.06€	20.34%
Total	4,181,415.265	100.00%	944,426,270.95€	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	-	4,181,415.26	224,477.73	121,525.55	1,233,675.93	210,903.26	1,489,141.51	48,204.00	853,487.29
Average	225.07	134,884.36	7,241.22	3,920.18	39,796.00	6,803.33	48,036.82	1,554.97	27,531.85
Min	189.76	117,789.37	4,512.00	3,139.50	18,010.02	3,857.54	33,933.49	759.00	9,837.48
Min day	29	15	1	8	1	1	15	13	19
Max	252.59	150,612.11	11,810.00	4,838.00	56,527.86	12,990.00	93,595.40	2,978.00	37,821.14
Max day	13	19	18	18	17	31	19	19	25
Spread	62.84	32,822.74	7,298.00	1,698.50	38,517.84	9,132.46	59,661.91	2,219.00	27,983.66
Standard Deviation	15.68	8,601.50	2,735.60	485.59	11,250.73	1,827.92	14,885.02	714.13	6,092.61

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	82,685.500	1.98%	18,696,813.86€	1.98%
Crete Load	250,886.000	6.00%	56,781,510.94€	6.01%
HV Load	639,108.916	15.28%	143,490,822.91€	15.19%
MV Load	821,103.413	19.64%	185,722,221.04€	19.67%
LV Load	2,186,488.049	52.29%	495,646,473.16€	52.48%
PUMP	14,830.617	0.35%	2,844,377.25€	0.30%
Exports	186,311.920	4.46%	41,243,800.32€	4.37%
Total	4,181,414.416	100.00%	944,426,019.50€	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	-	4,181,414.42	82,685.50	250,886.00	639,108.92	821,103.41	2,186,488.05	14,830.62	186,311.92
Average	225.07	134,884.34	2,667.27	8,093.10	20,616.42	26,487.21	70,531.87	494.35	6,010.06
Min	189.76	117,789.41	2,061.50	6,805.00	19,385.36	16,879.57	61,525.92	110.00	961.00
Min day	29	15	22	1	17	2	2	13	26
Max	252.59	150,612.13	3,192.00	9,474.00	22,095.96	33,157.20	81,796.92	1,270.00	20,425.04
Max day	13	19	19	31	28	31	27	11	19
Spread	62.84	32,822.72	1,130.50	2,669.00	2,710.60	16,277.63	20,271.01	1,160.00	19,464.04
Standard Deviation	15.68	8,601.51	302.11	670.93	769.39	4,442.26	5,050.19	291.79	4,757.80

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	1,136,801.610	71.85%	3,650,780.82€	82.55%
FCR	115,811.600	7.32%	579,795.17€	13.11%
mFRR	329,543.580	20.83%	191,879.31€	4.34%
Total	1,582,156.780	100.00%	4,422,455.31€	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	310,587.030	42.58%	321,406.21€	30.54%
FCR	116,451.830	15.96%	93,870.76€	8.92%
mFRR	302,387.480	41.46%	637,260.40€	60.55%
Total	729,426.340	100.00%	1,052,537.36€	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	95,310.810	34.25%	29,709,240.92€	34.16%	
mFRR	182,996.380	65.75%	57,269,491.41€	65.84%	
Total	278,307.190	100.00%	86,978,732.33€	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	87,360.610	47.41%	8,889,189.63€	44.04%	
mFRR	96,908.060	52.59%	11,296,121.24€	55.96%	
Total	184,268.670	100.00%	20,185,310.86€	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	4,181,415.26	95.02%
IDMA1	52,839.19	1.20%
IDMA2	41,934.60	0.95%
IDMA3	30,262.94	0.69%
IDM (Total)	125,036.73	2.84%
Balancing Energy (Up)	278,307.19	6.32%
Balancing Energy (Dn)	184,268.67	4.19%
Balancing Energy (Total)	94,038.52	2.14%
Total	4,400,490.52	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	944,426,270.95€	90.32%
IDMA1	12,497,671.94€	1.20%
IDMA2	9,414,892.12€	0.90%
IDMA3	7,040,883.07€	0.67%
IDM (Total)	28,953,447.13€	2.77%
Balancing Capacity (Up)	4,422,455.31€	0.42%
Balancing Capacity (Dn)	1,052,537.36€	0.10%
Balancing Capacity (Total)	5,474,992.66€	0.52%
Balancing Energy (Up)	86,978,732.33€	8.32%
Balancing Energy (Dn)	20,185,310.86€	1.93%
Balancing Energy (Total)	66,793,421.47€	6.39%
Balancing Market (Total)	72,268,414.13€	6.91%
Total	1,045,648,132.21€	100.00%