

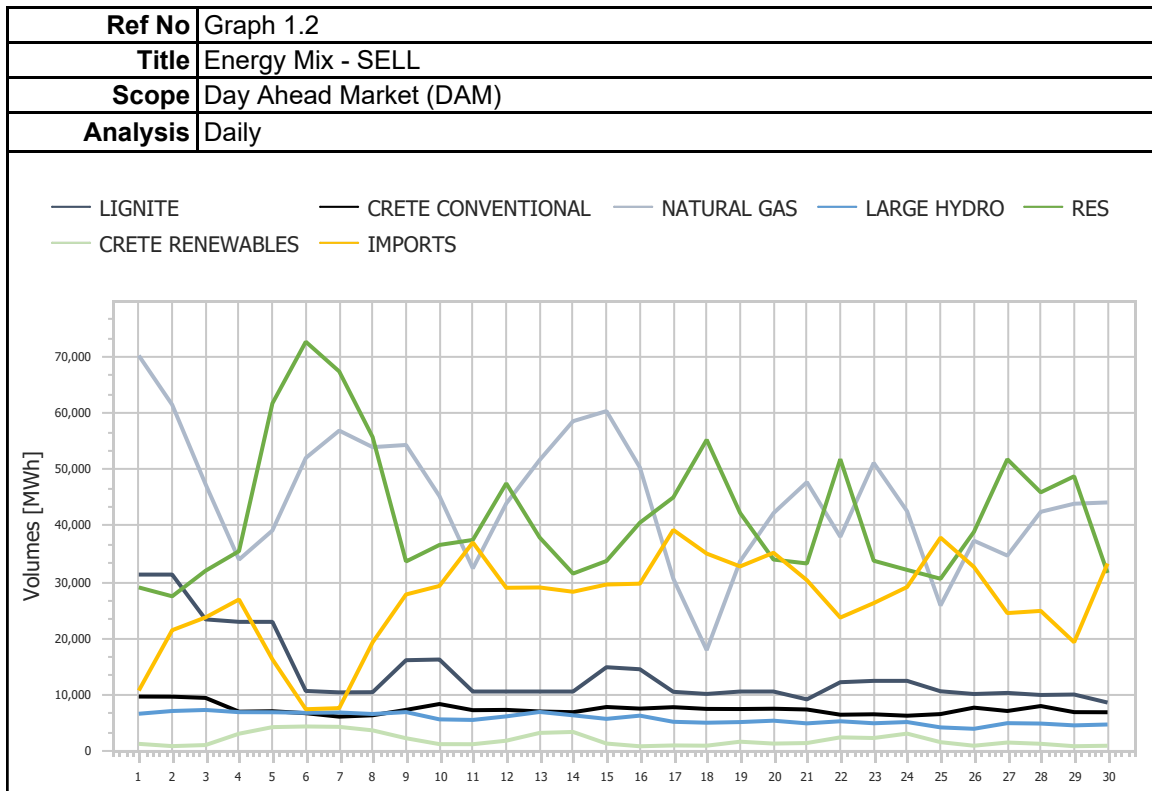
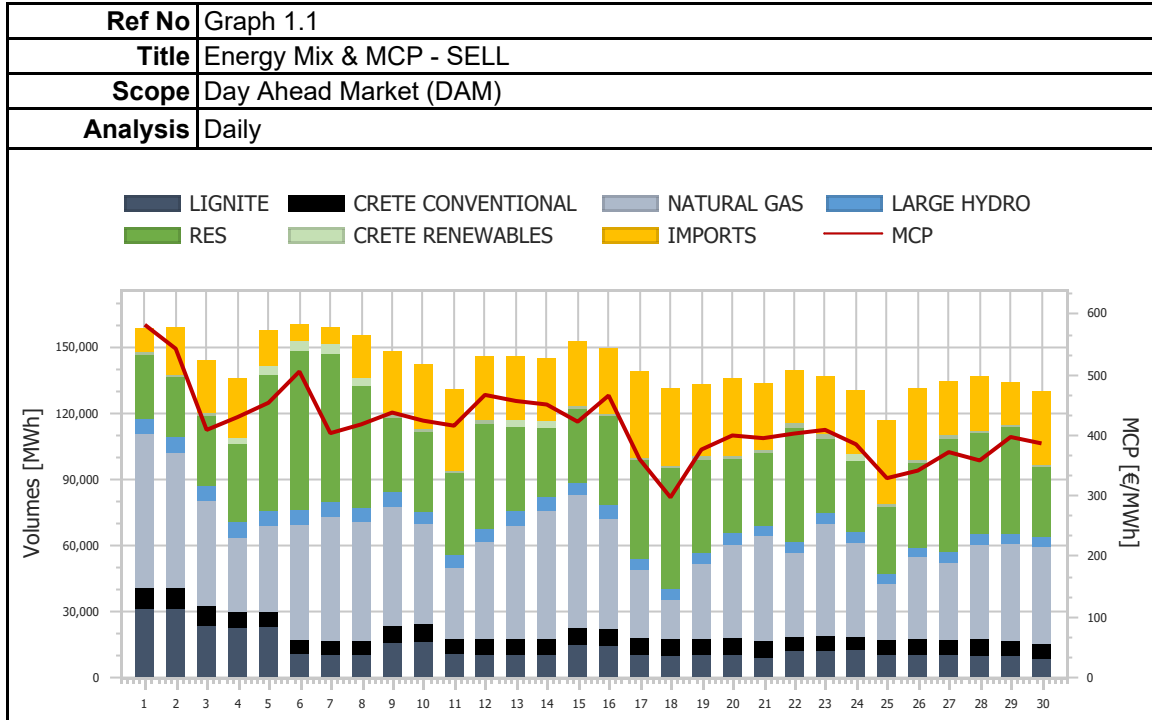
Market Monitoring Report

Monthly - Public - 2

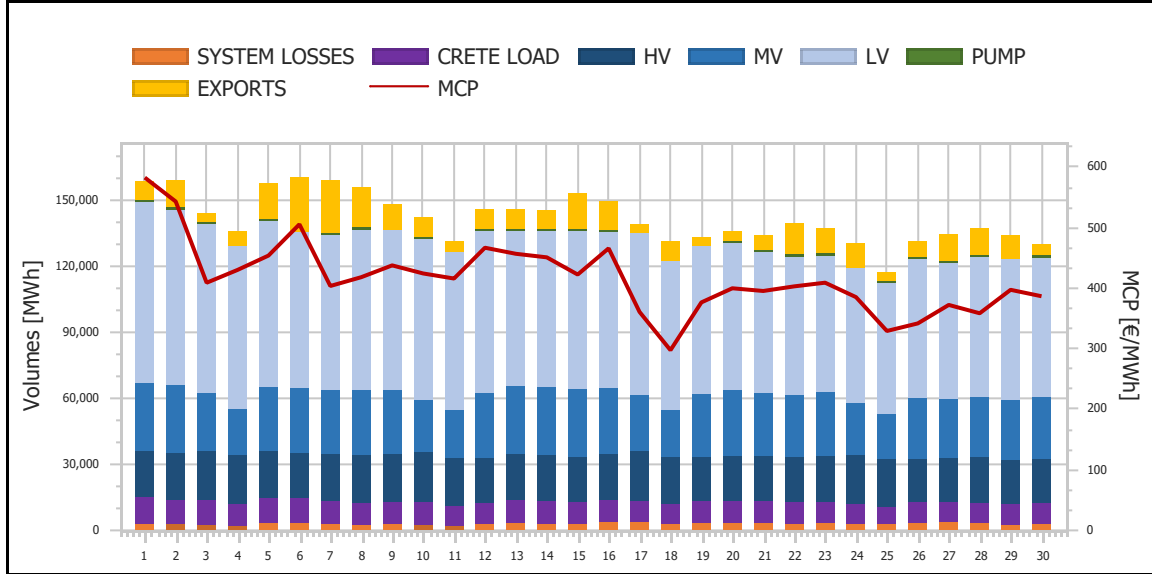
09-2022



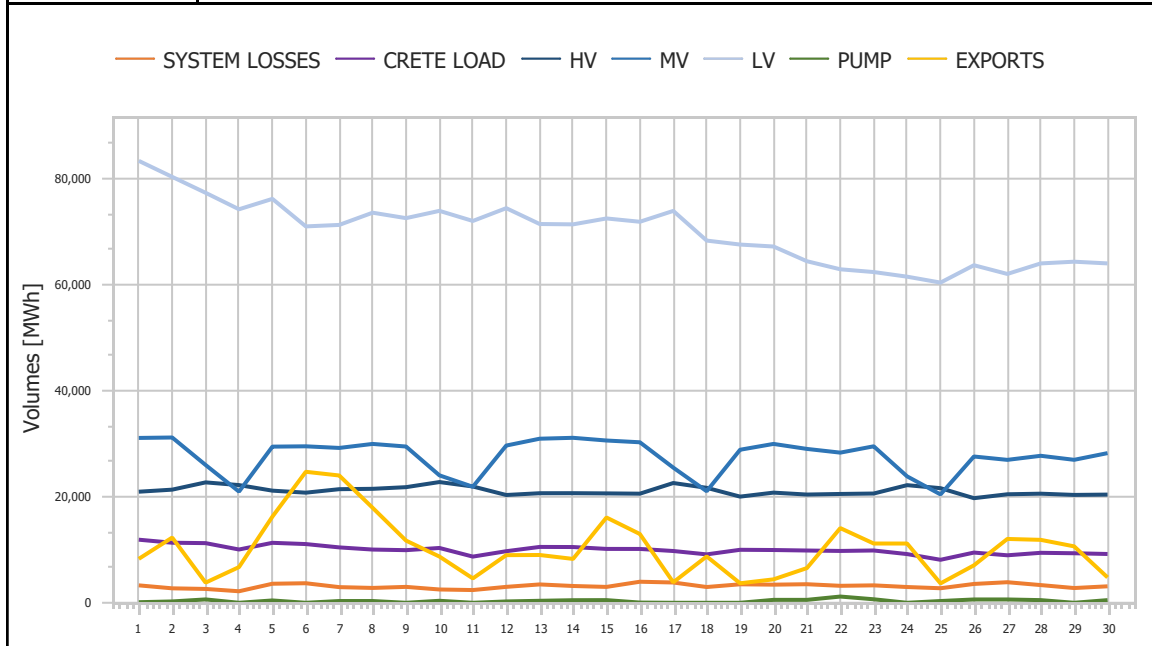
1. Day Ahead Market (DAM)



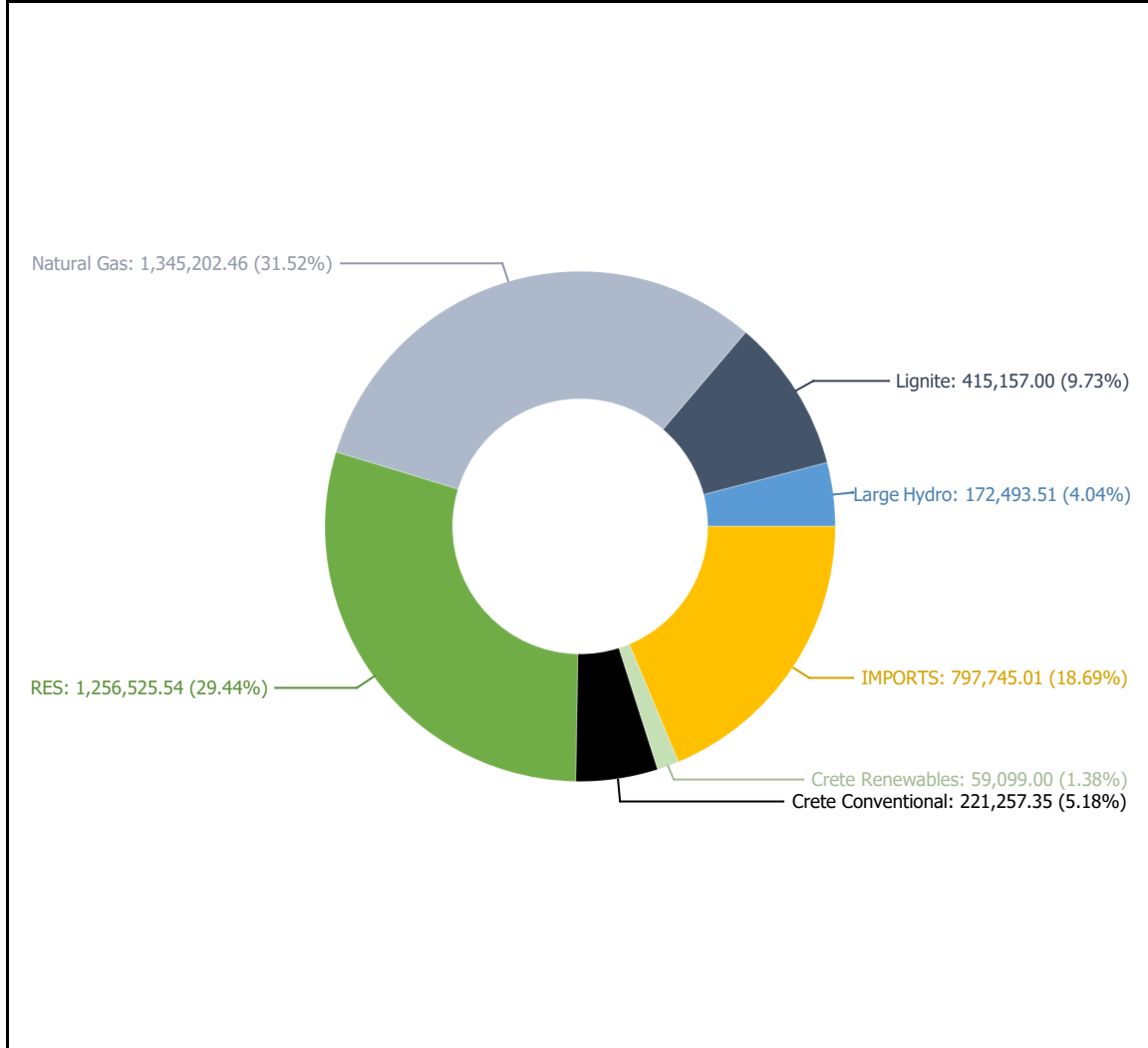
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Title	Energy Mix & MCP - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily



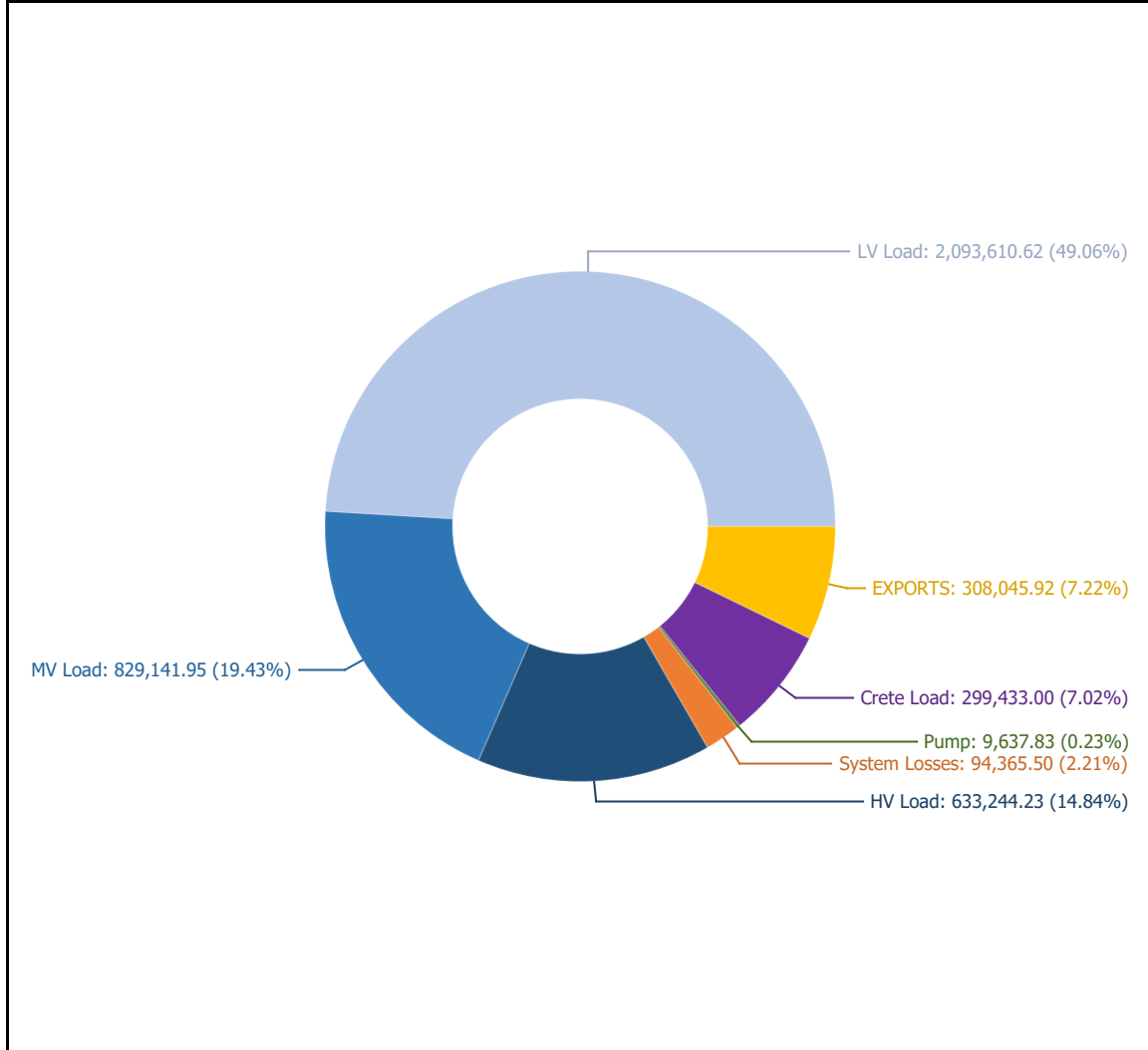
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Scope	Day Ahead Market (DAM)
Analysis	Daily

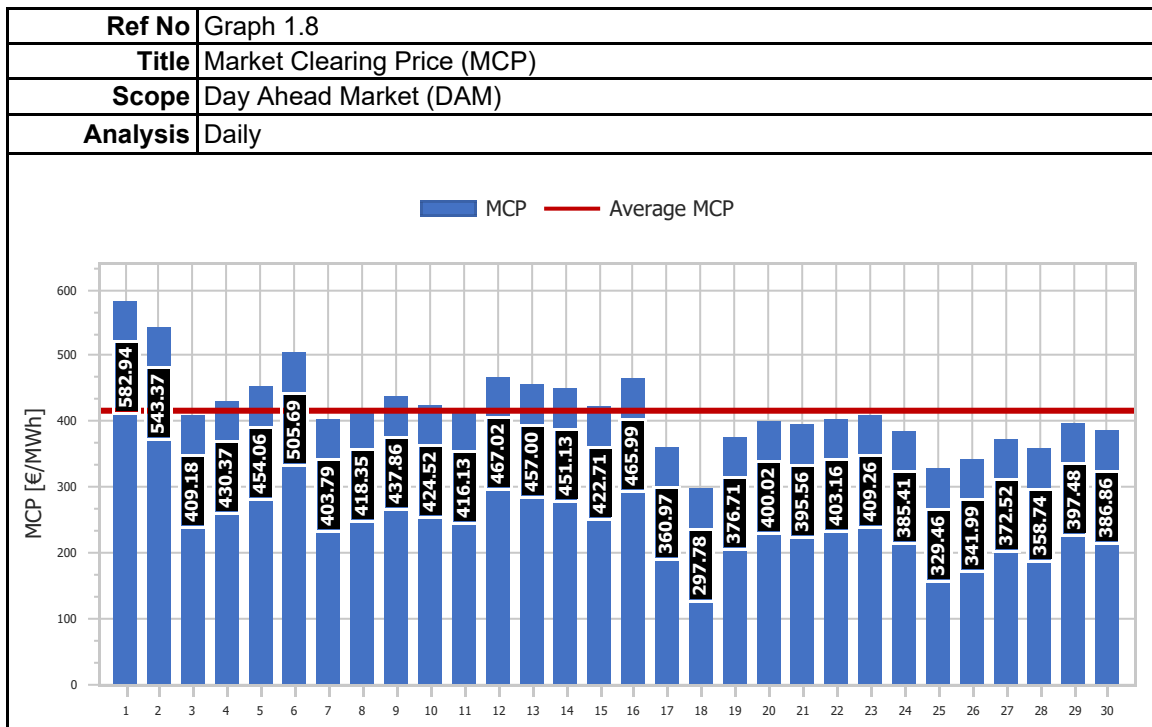
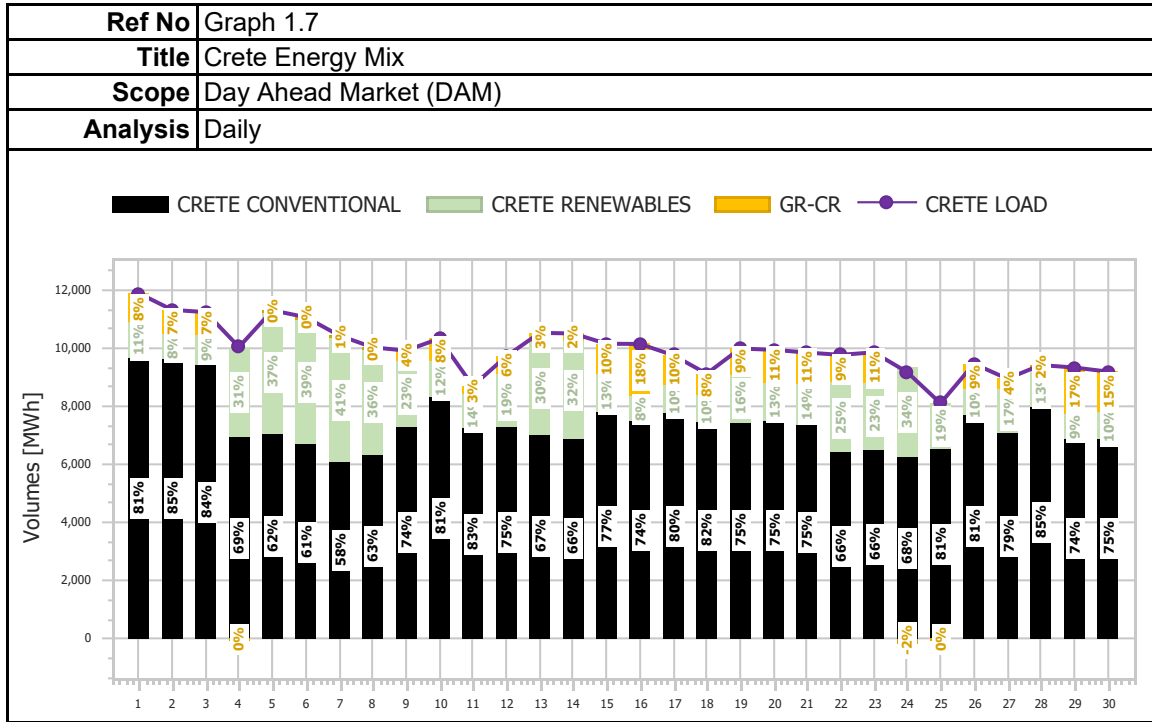


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Scope	Day Ahead Market (DAM)
Analysis	Daily

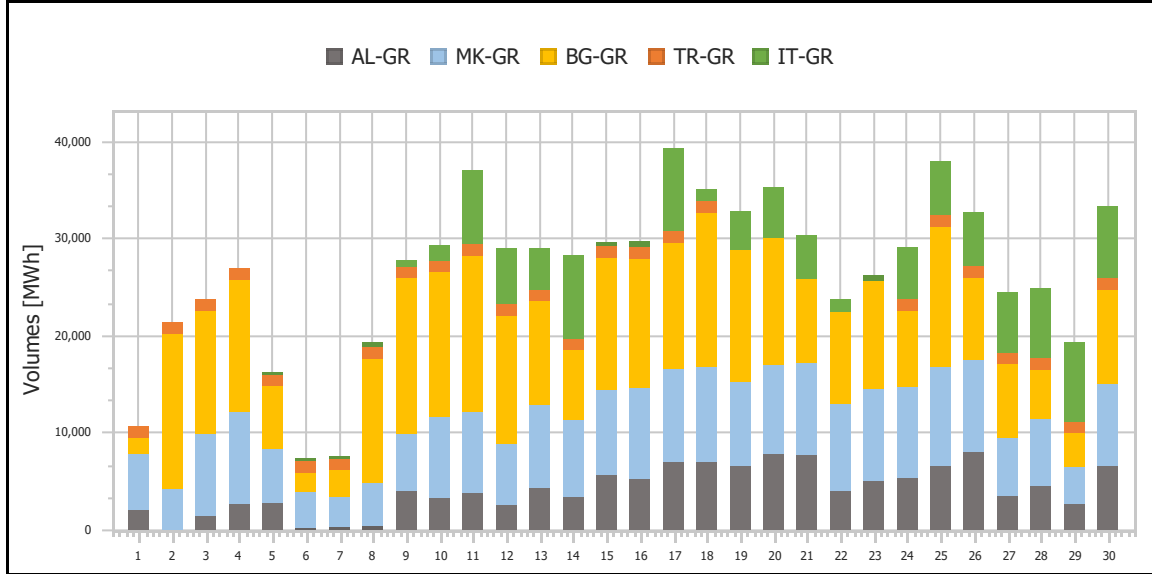


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Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily

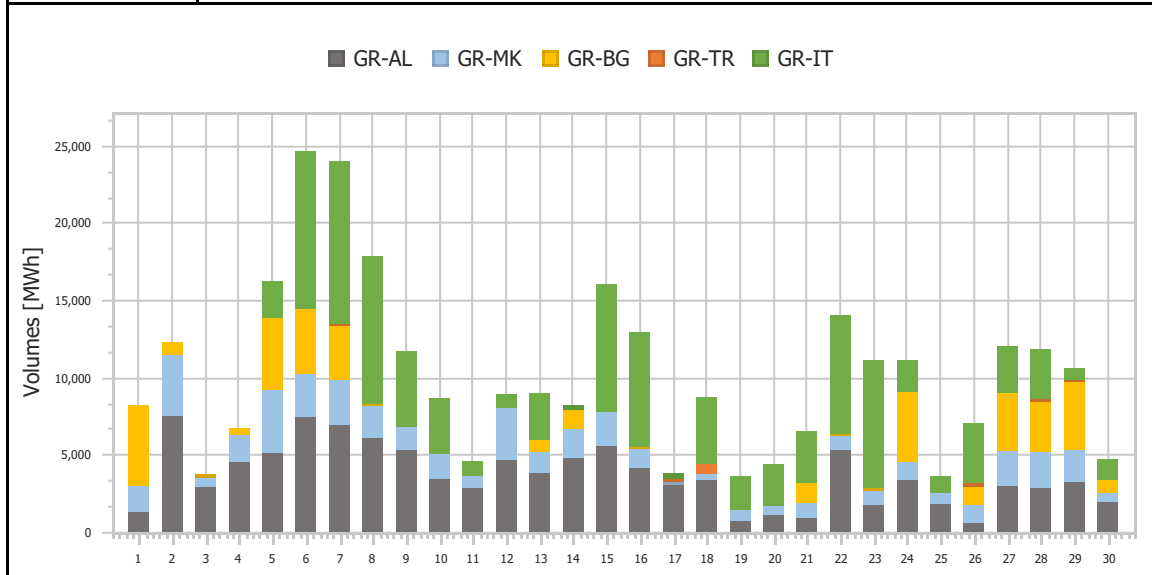




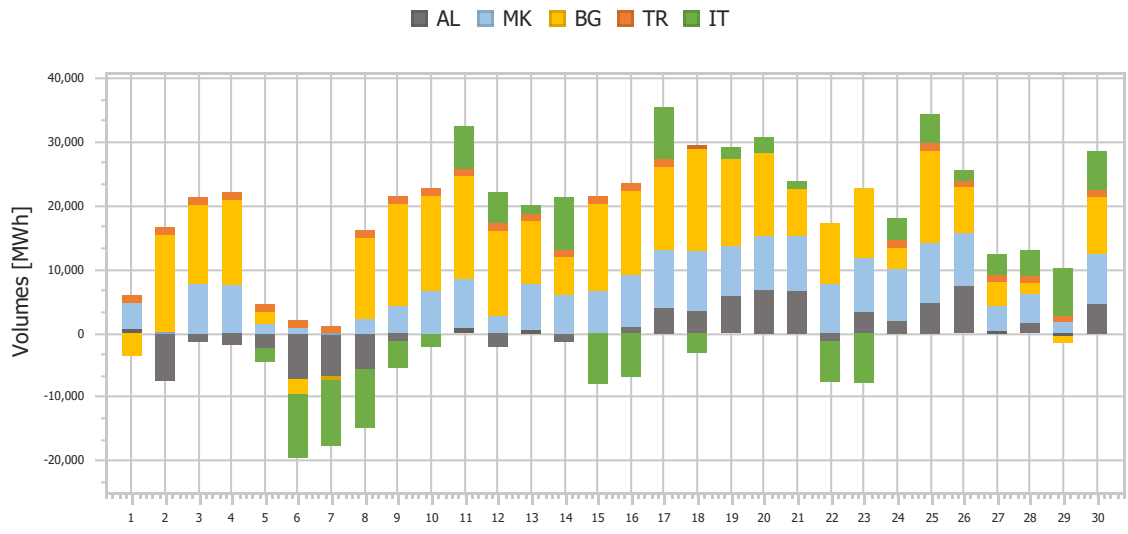
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Title	Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



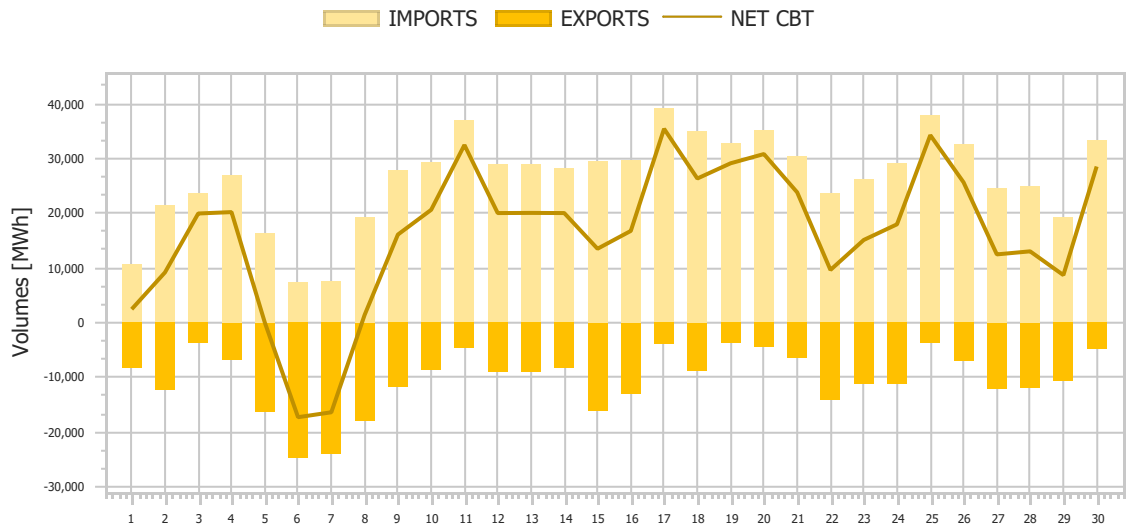
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Title	Exports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



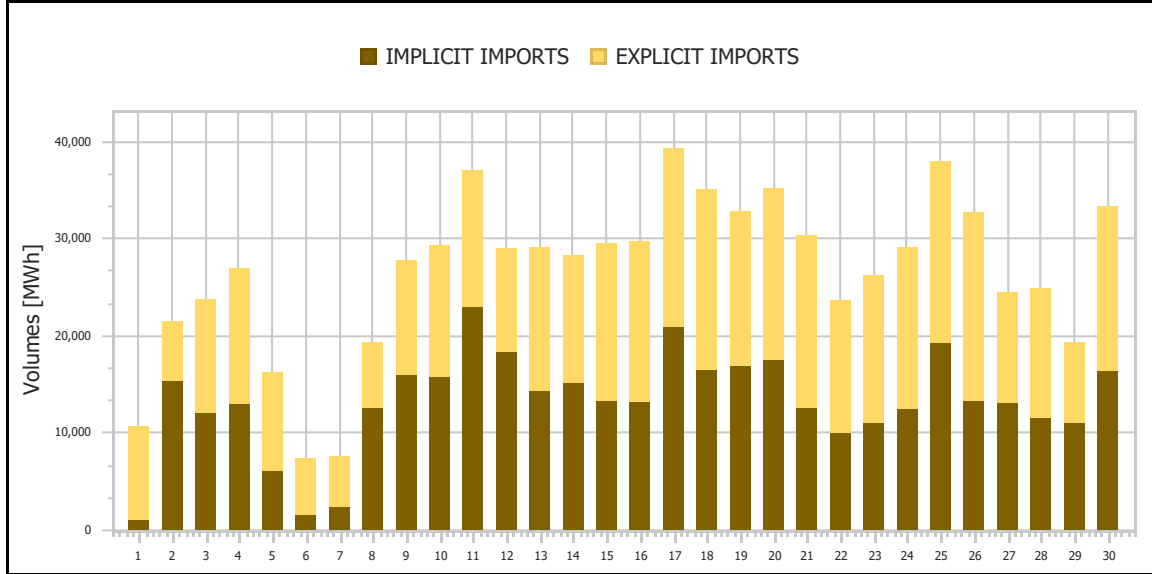
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Title	Net Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



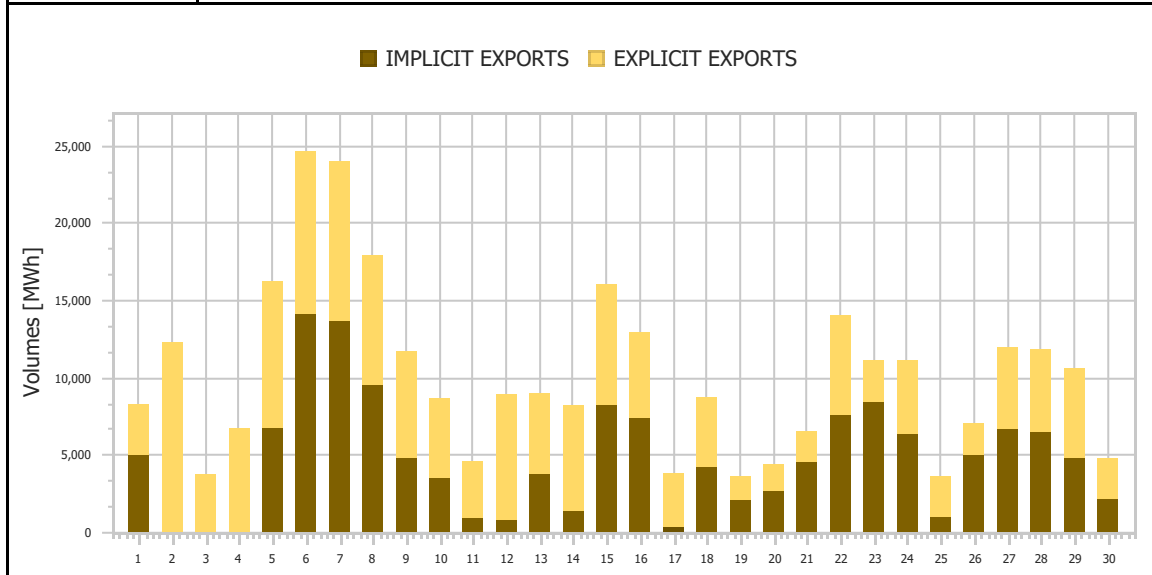
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Title	Total Imports & Exports
Scope	Day Ahead Market (DAM)
Analysis	Daily

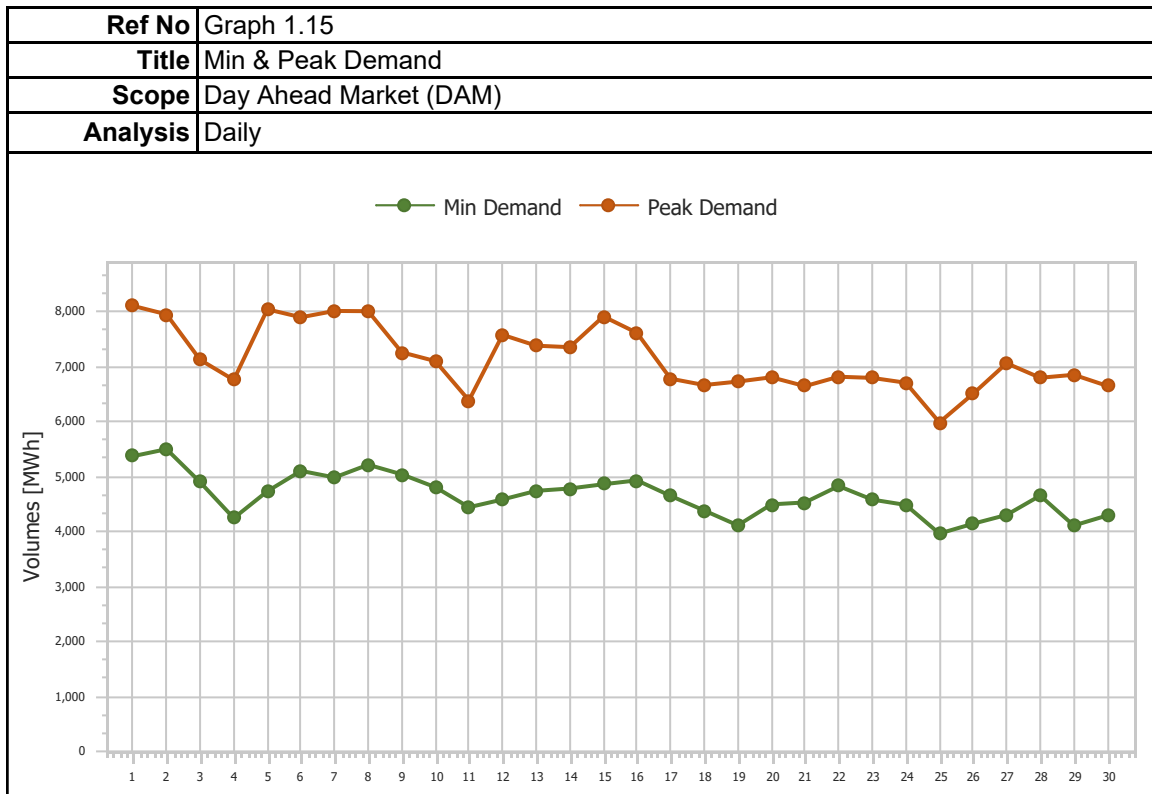


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Title	Imports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Daily

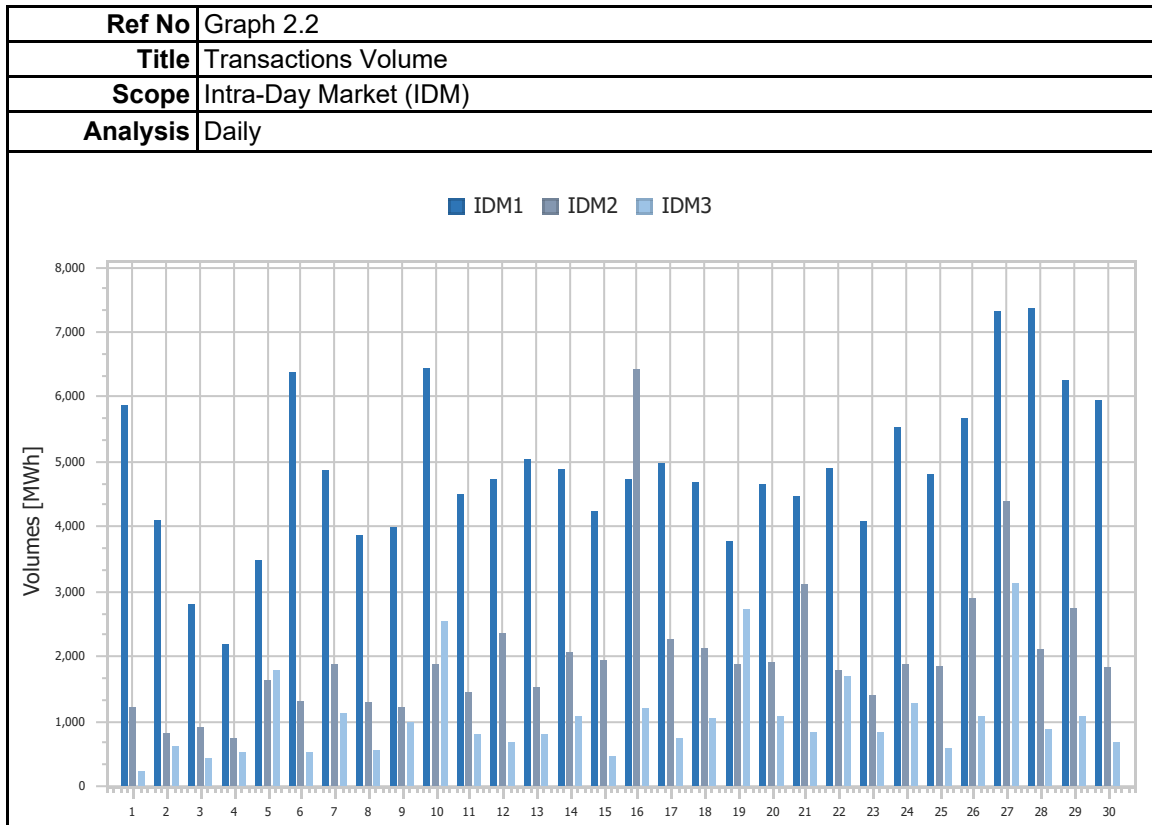
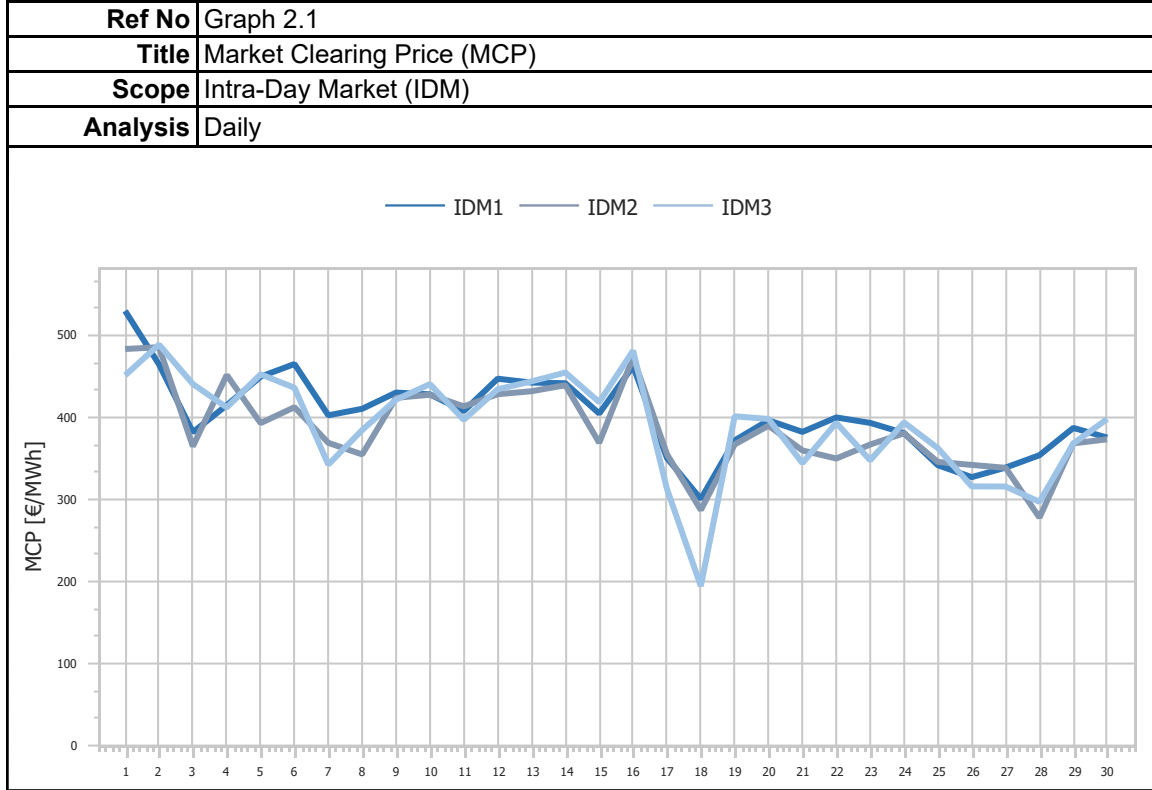


Ref No	Graph 1.14
Title	Exports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Monthly

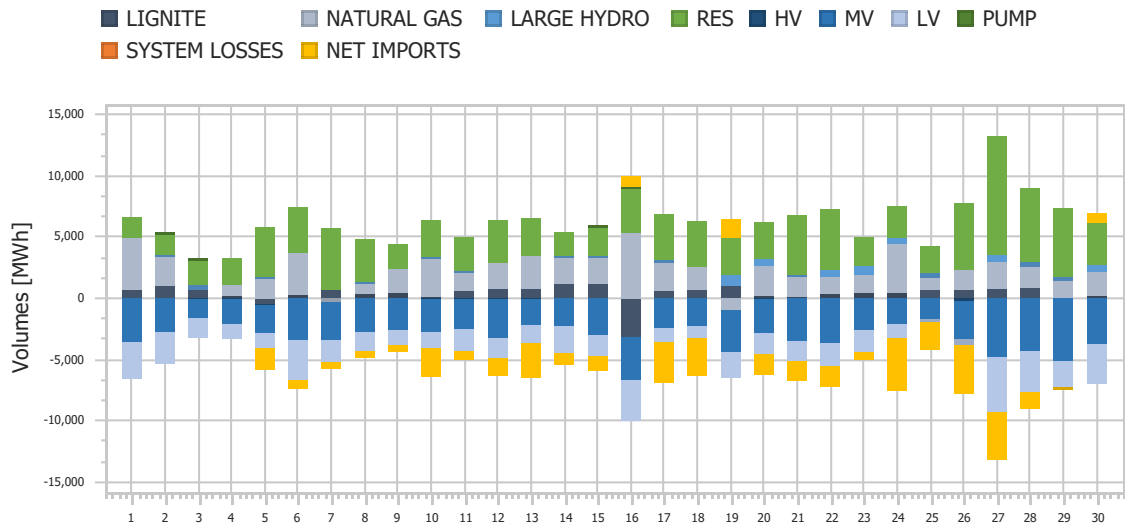




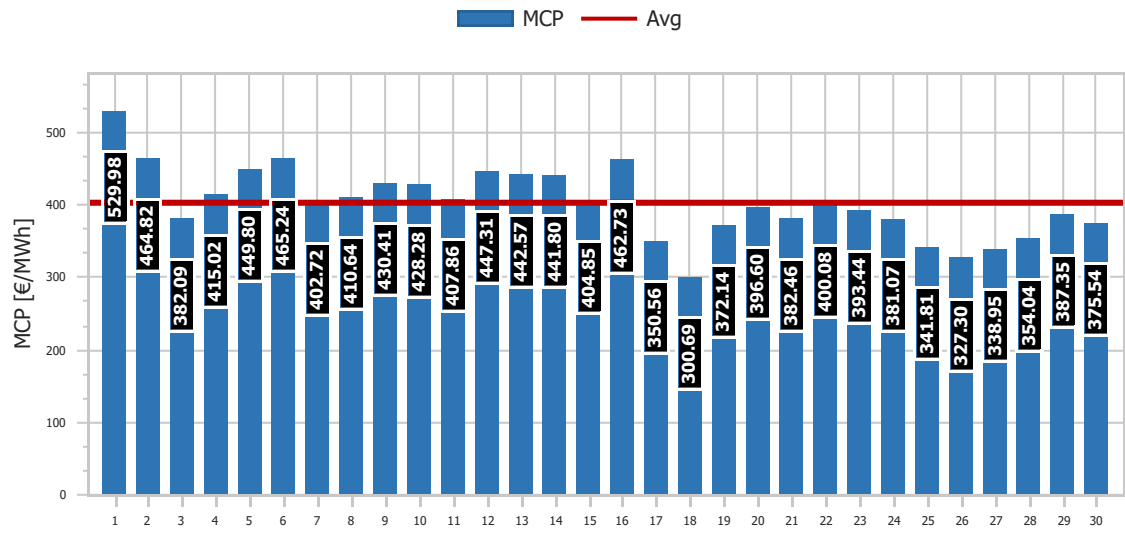
2. Intra-Day Market (IDM)



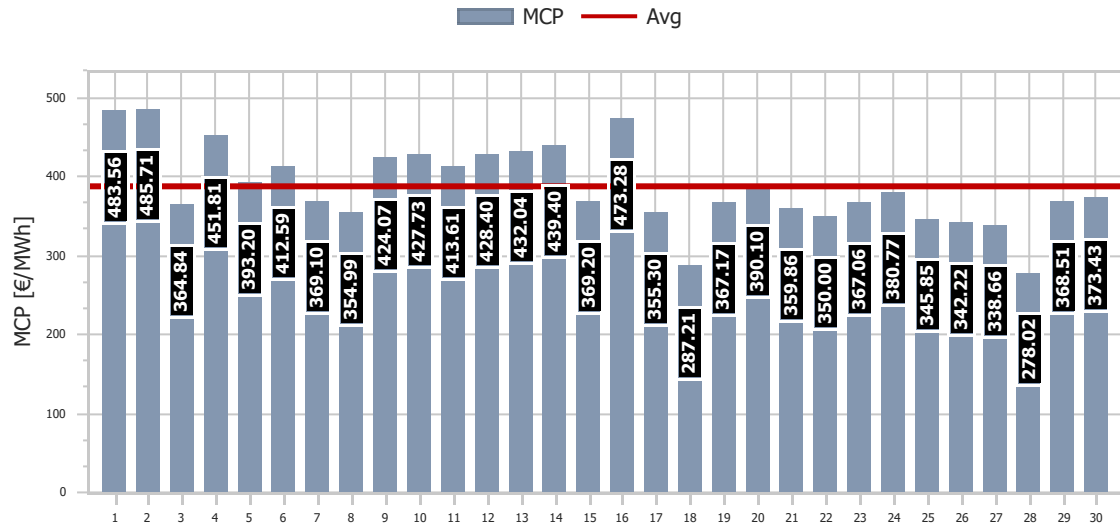
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Title	Energy Mix changes
Scope	Intra-Day Market (IDM)
Analysis	Daily



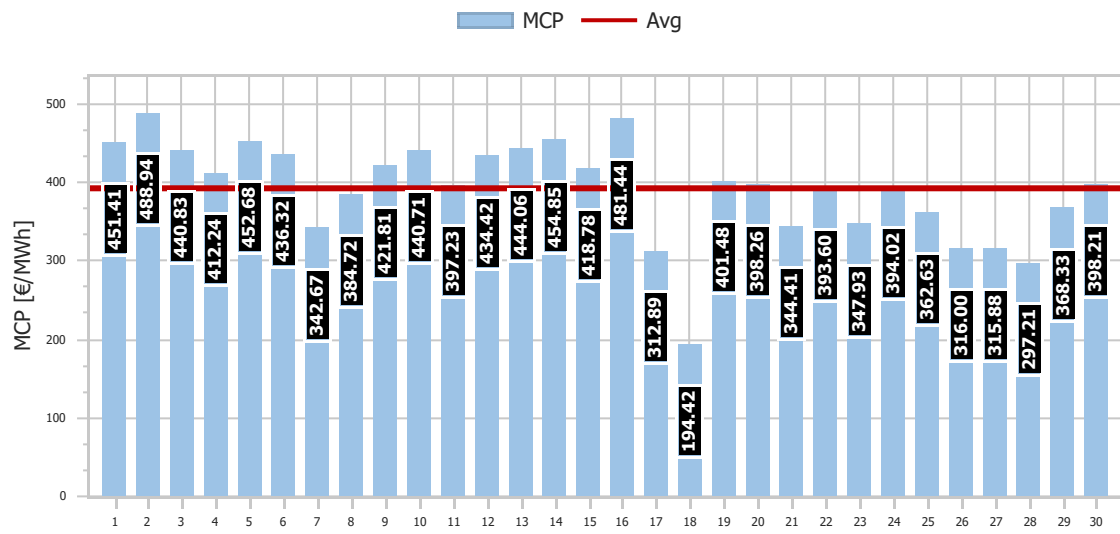
Ref No	Graph 2.4.1
Title	Market Clearing Price
Scope	Intra-Day Market Auction 1 (IDMA1)
Analysis	Daily



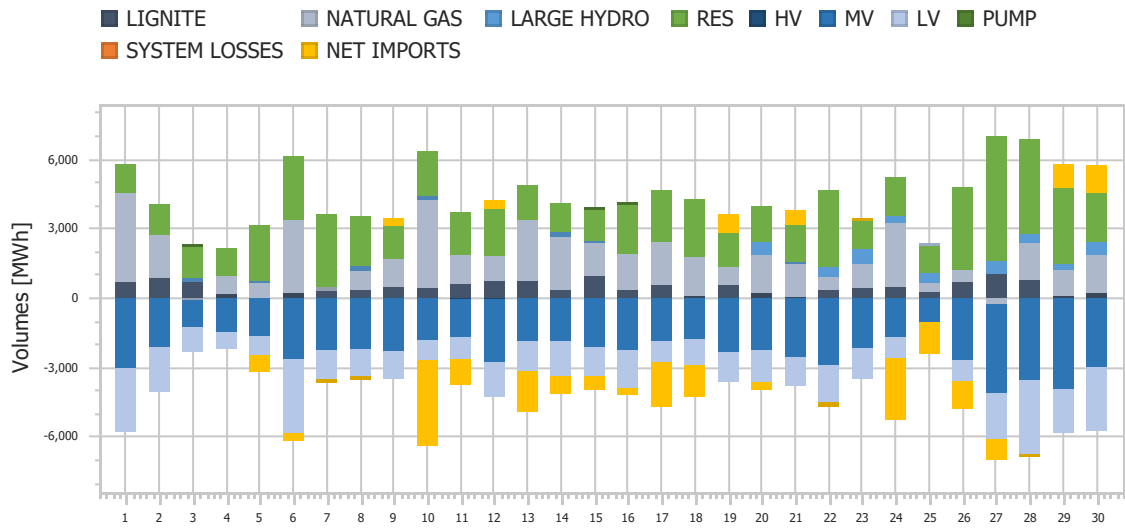
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Title	Market Clearing Price
Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



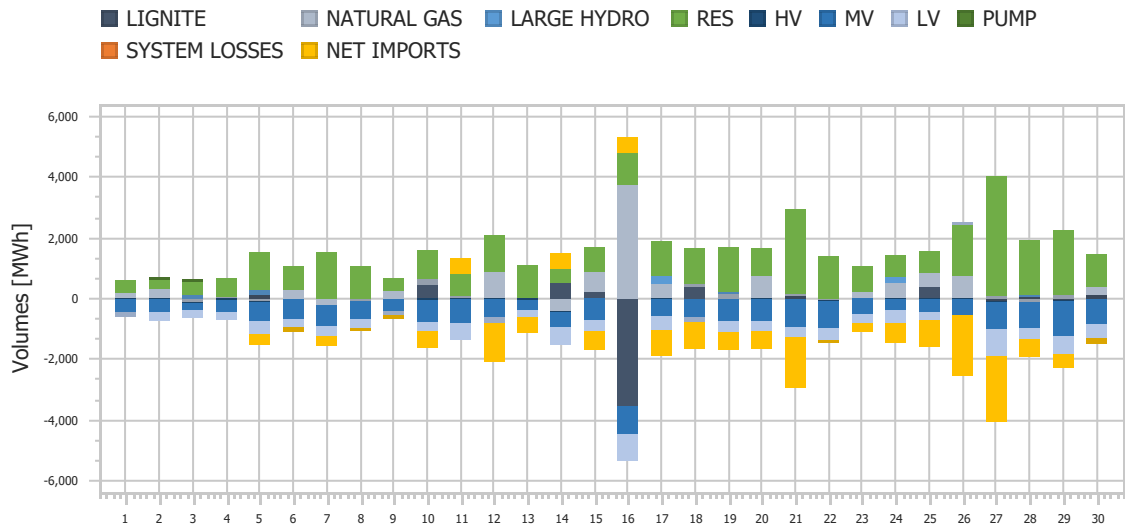
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Title	Market Clearing Price
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily



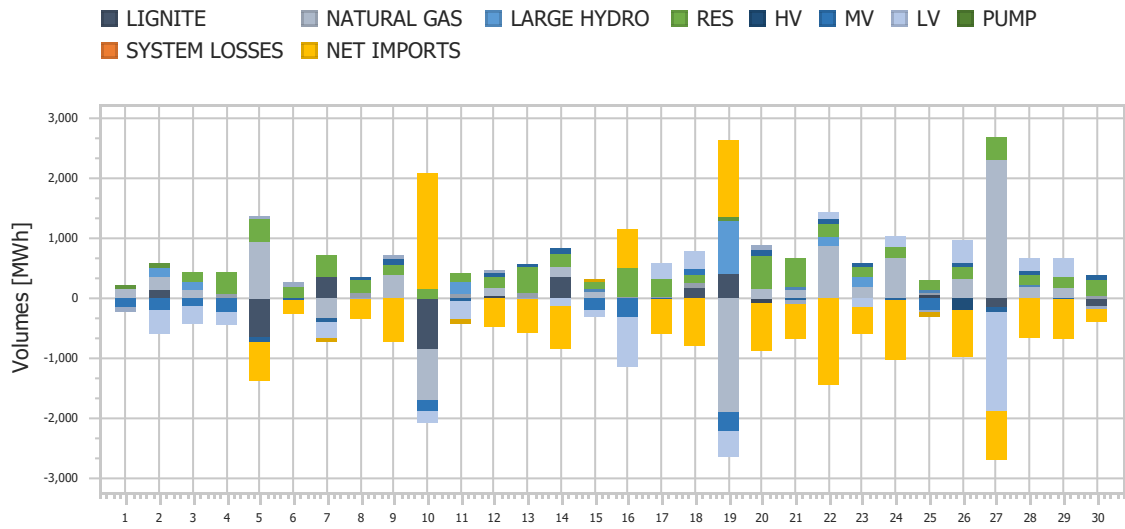
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Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 1 (IDMA1)
Analysis	Daily



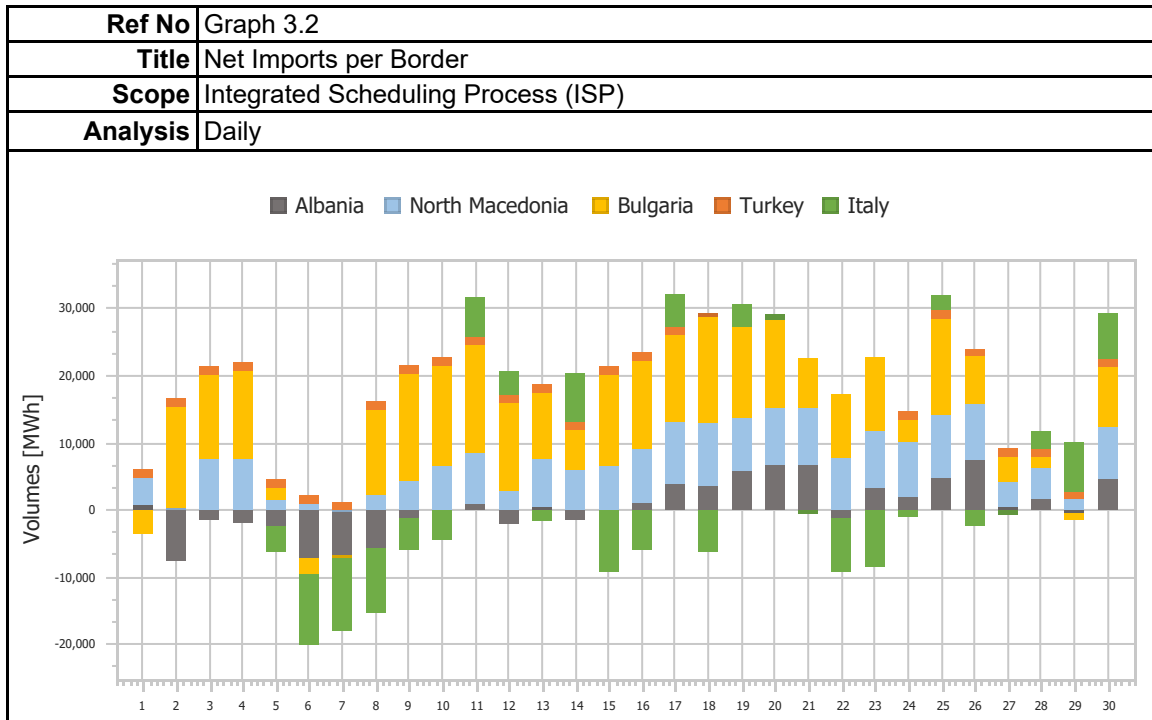
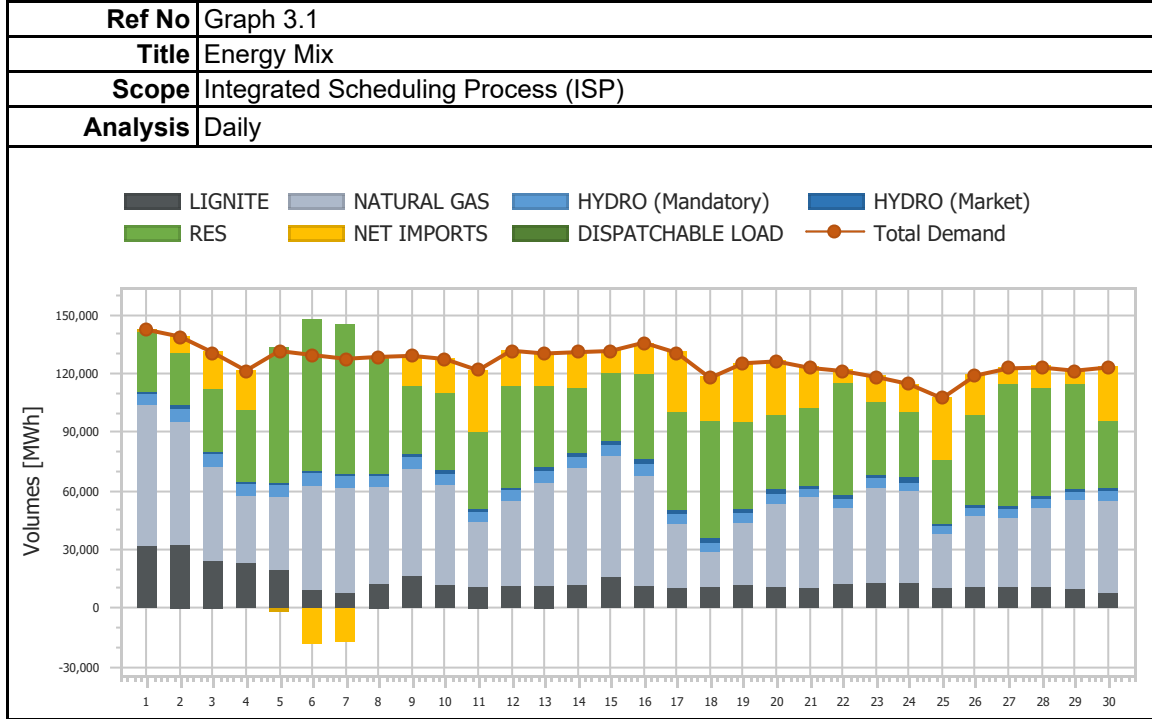
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Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



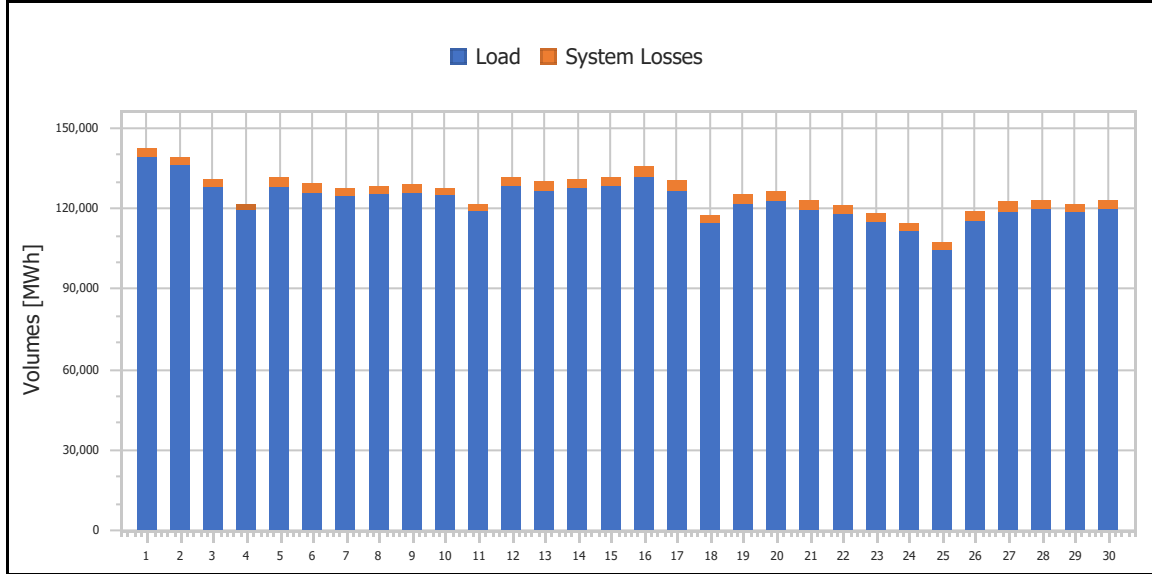
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Title	IDM Energy Mix Changes
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily



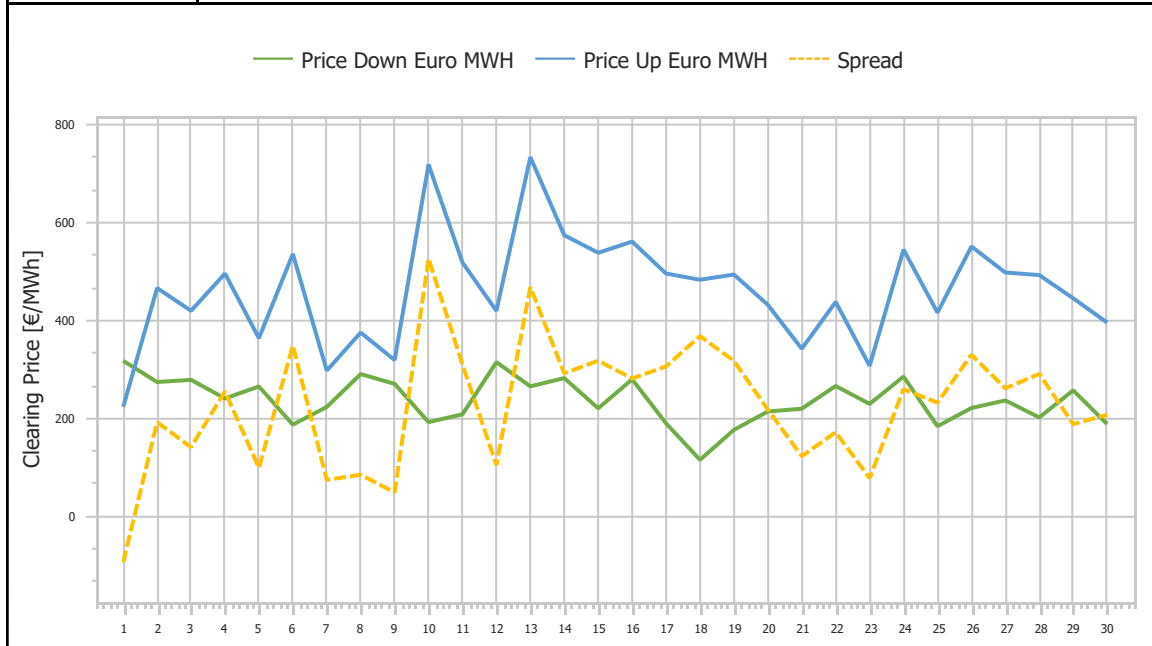
3. Integrated Scheduling Process (ISP)



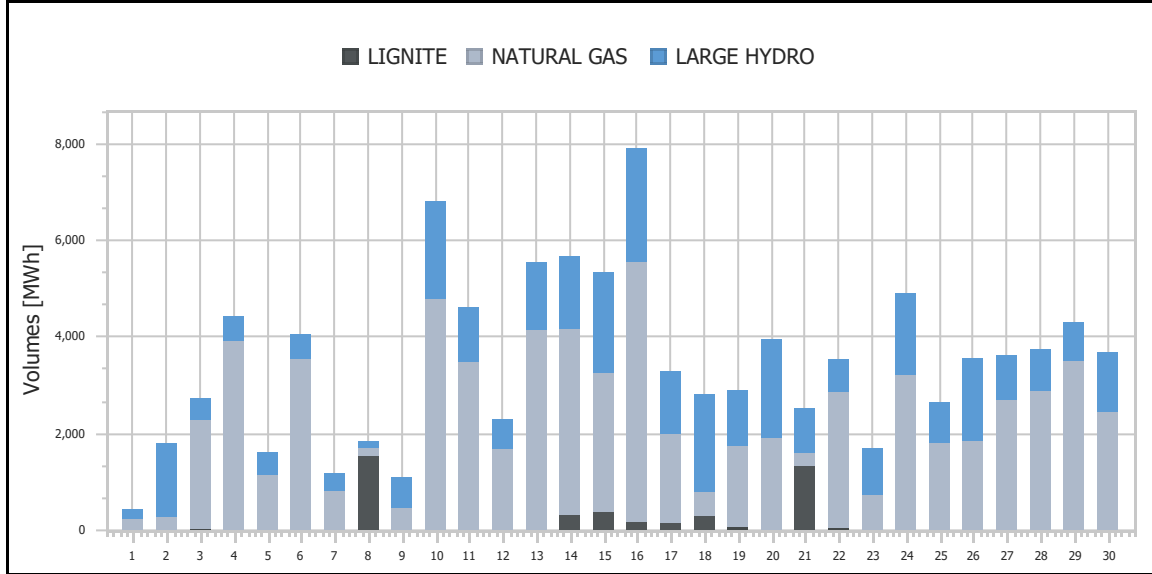
Ref No	Graph 3.3
Title	Demand & System Losses
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



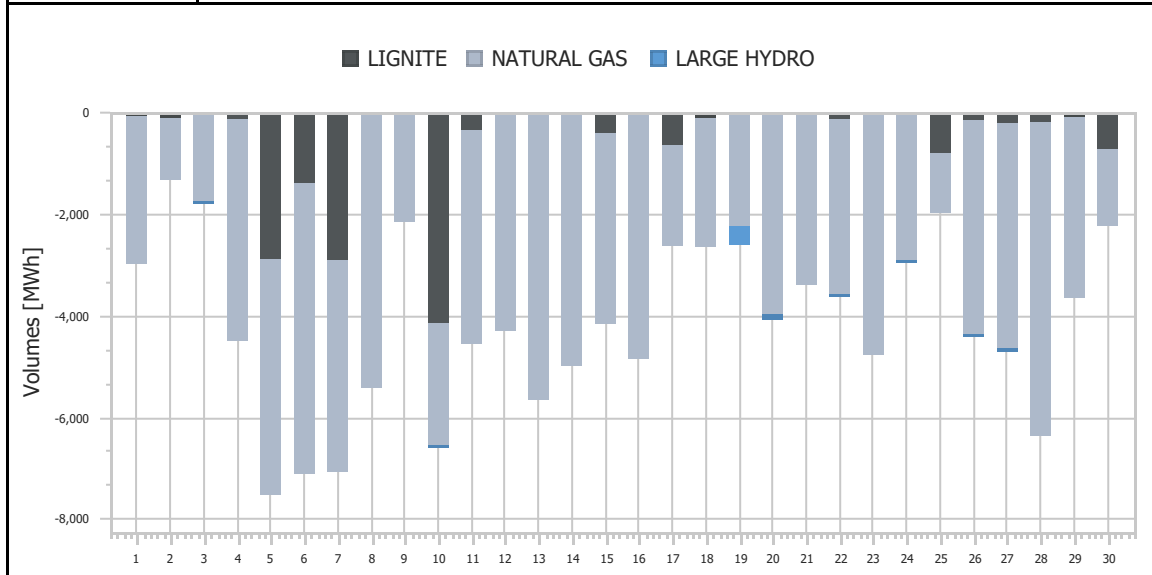
Ref No	Graph 3.4
Title	Clearing Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



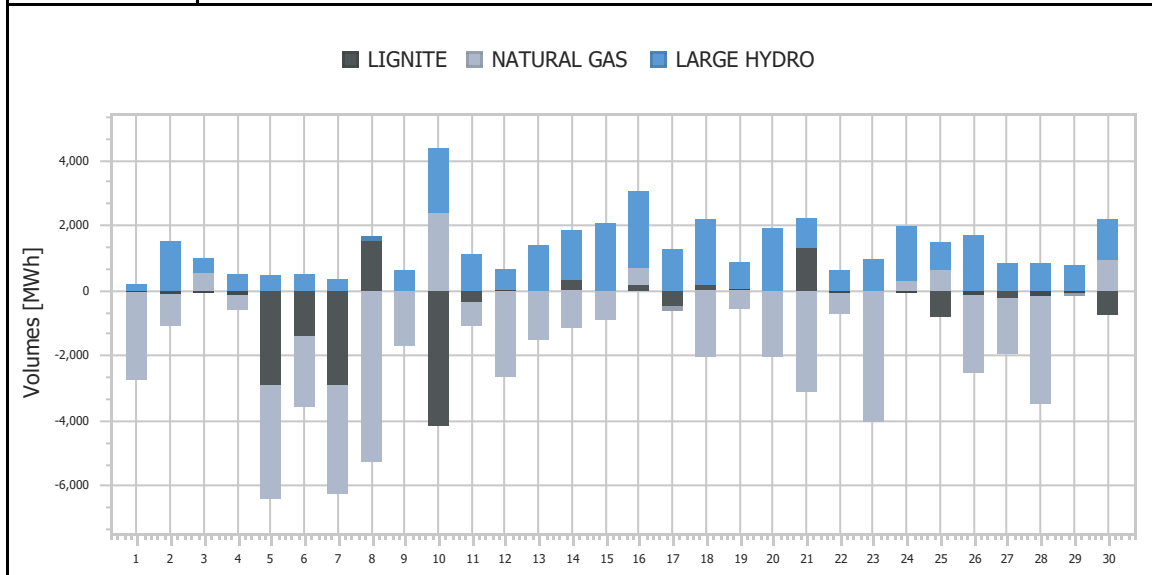
Ref No	Graph 3.5
Title	Upward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



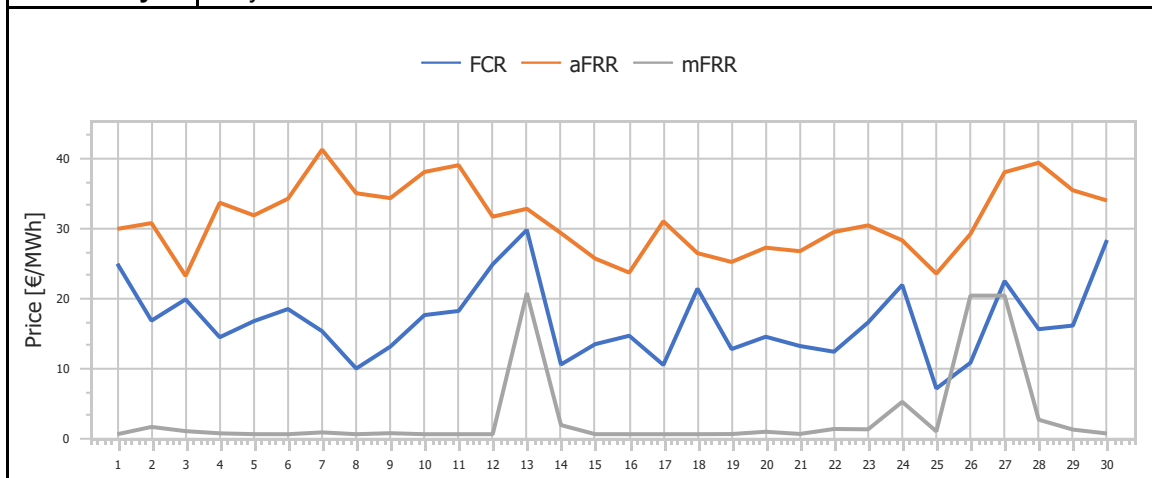
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Title	Downward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



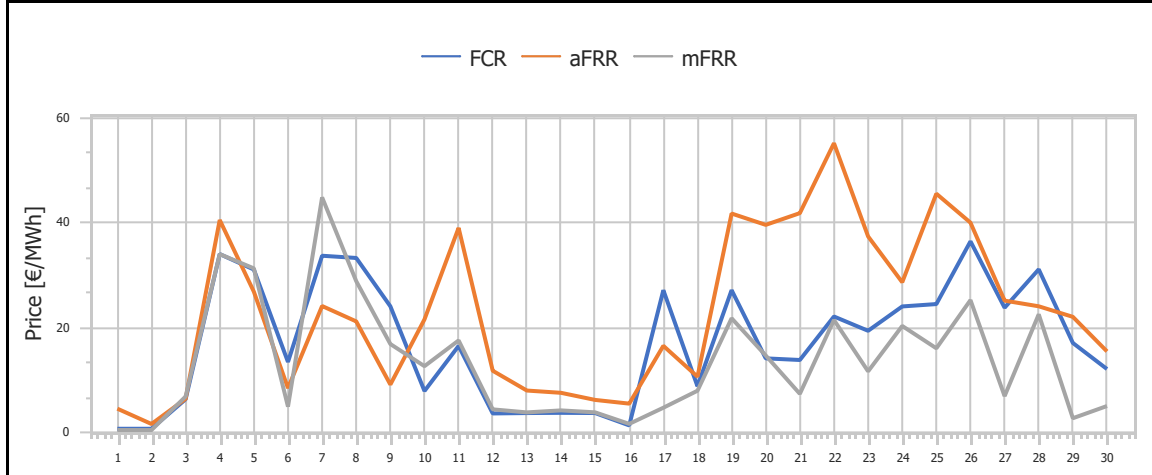
Ref No	Graph 3.7
Title	Net Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



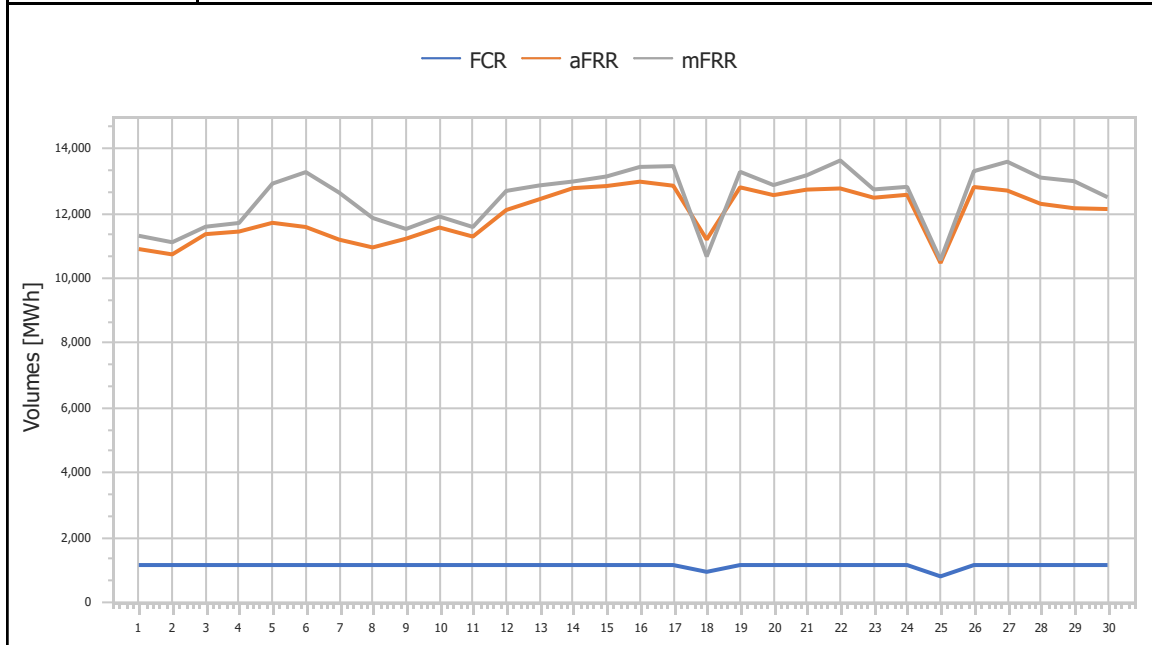
Ref No	Graph 3.8
Title	Upward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

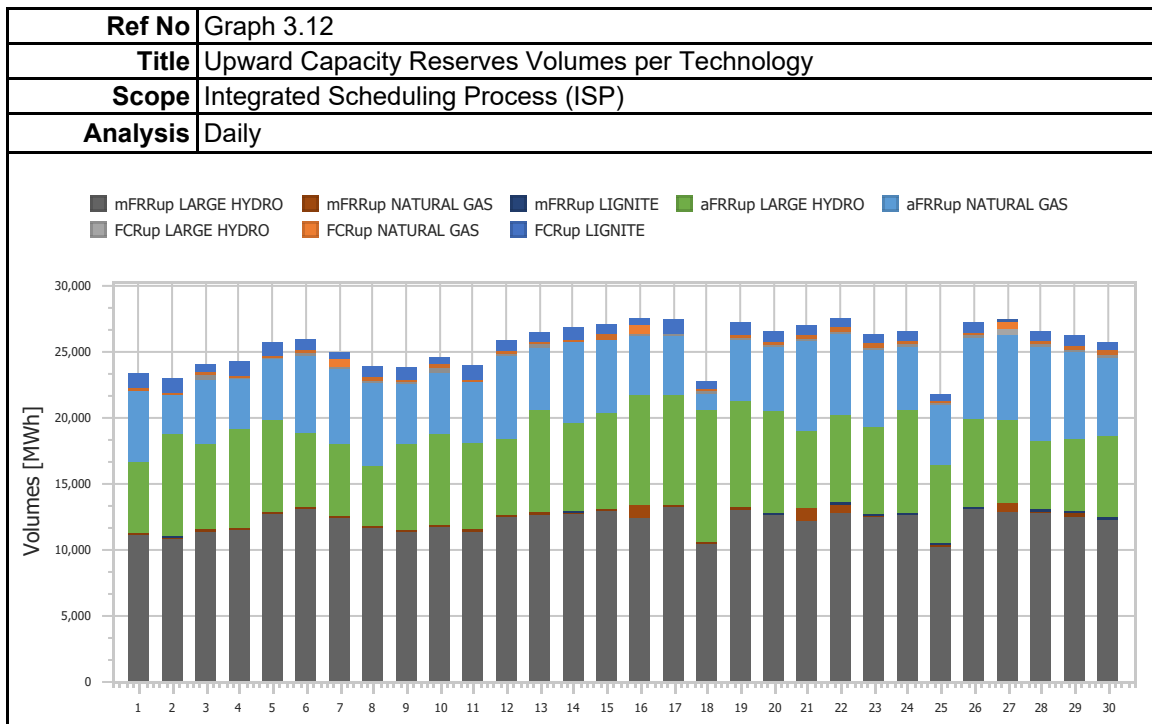
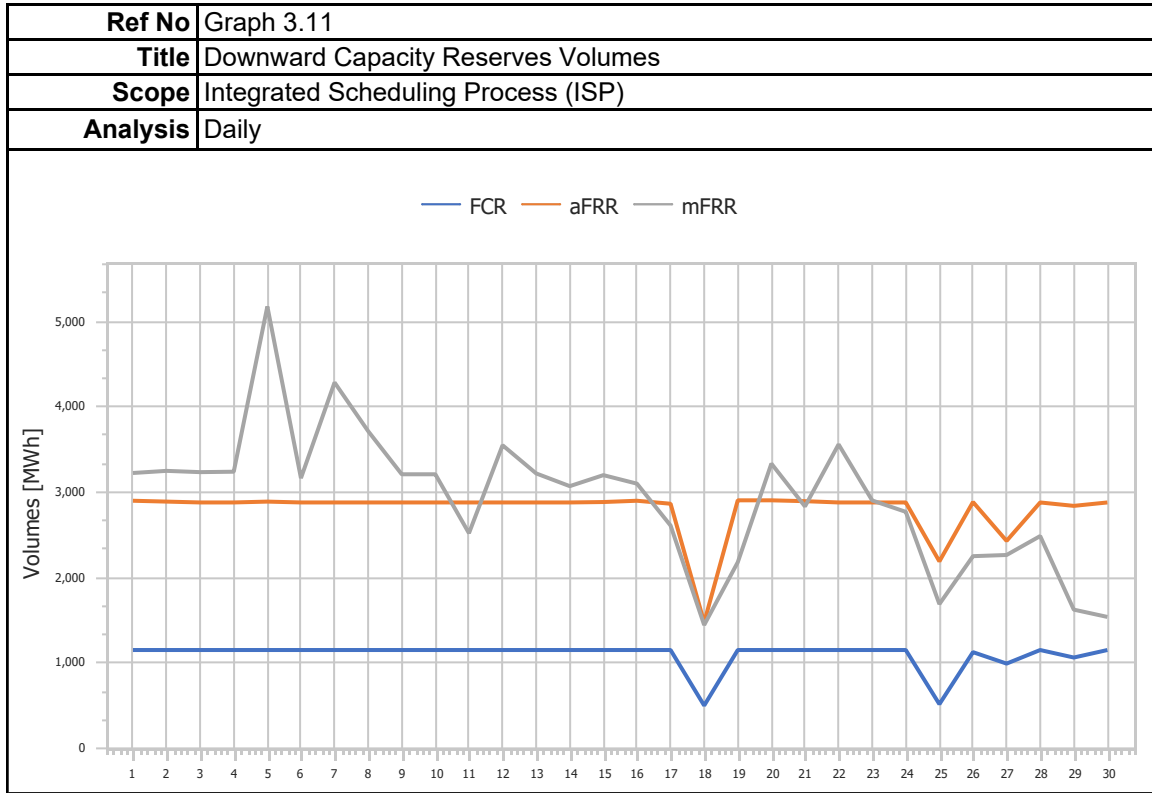


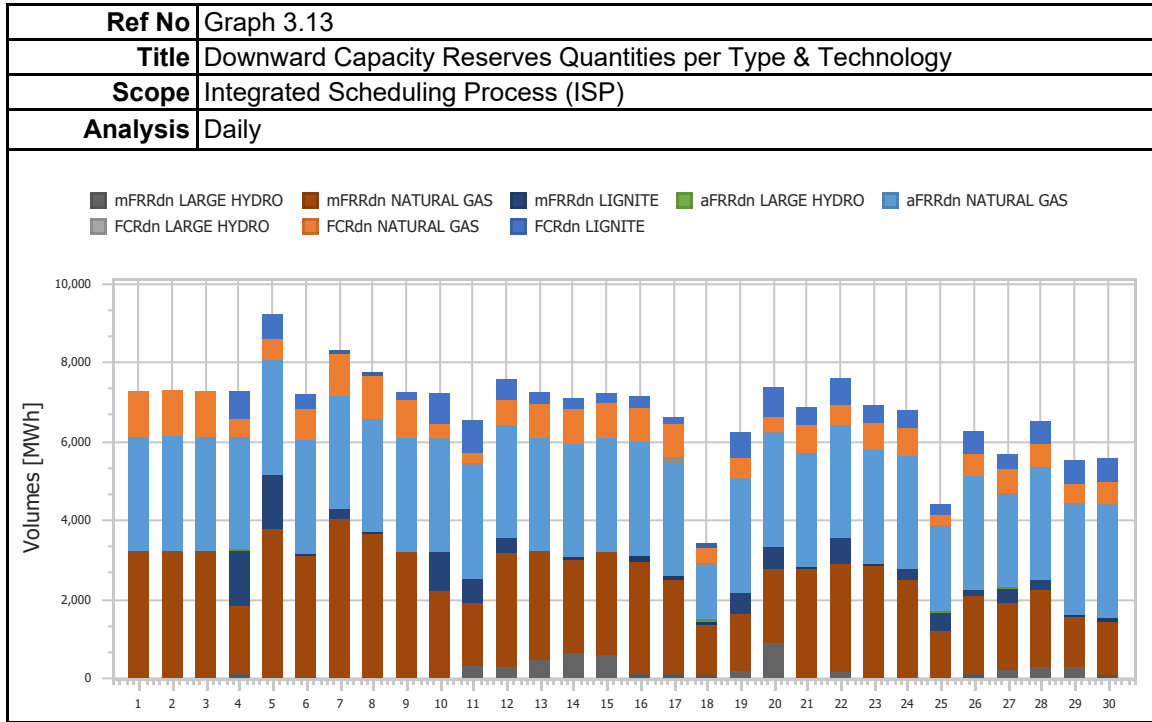
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Title	Downward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



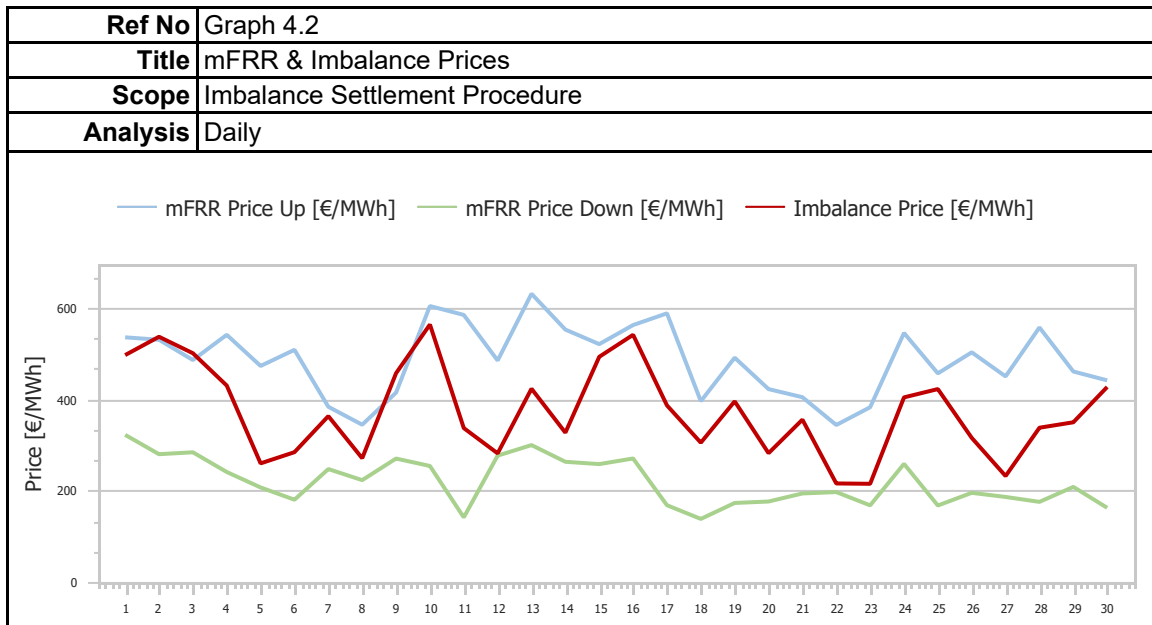
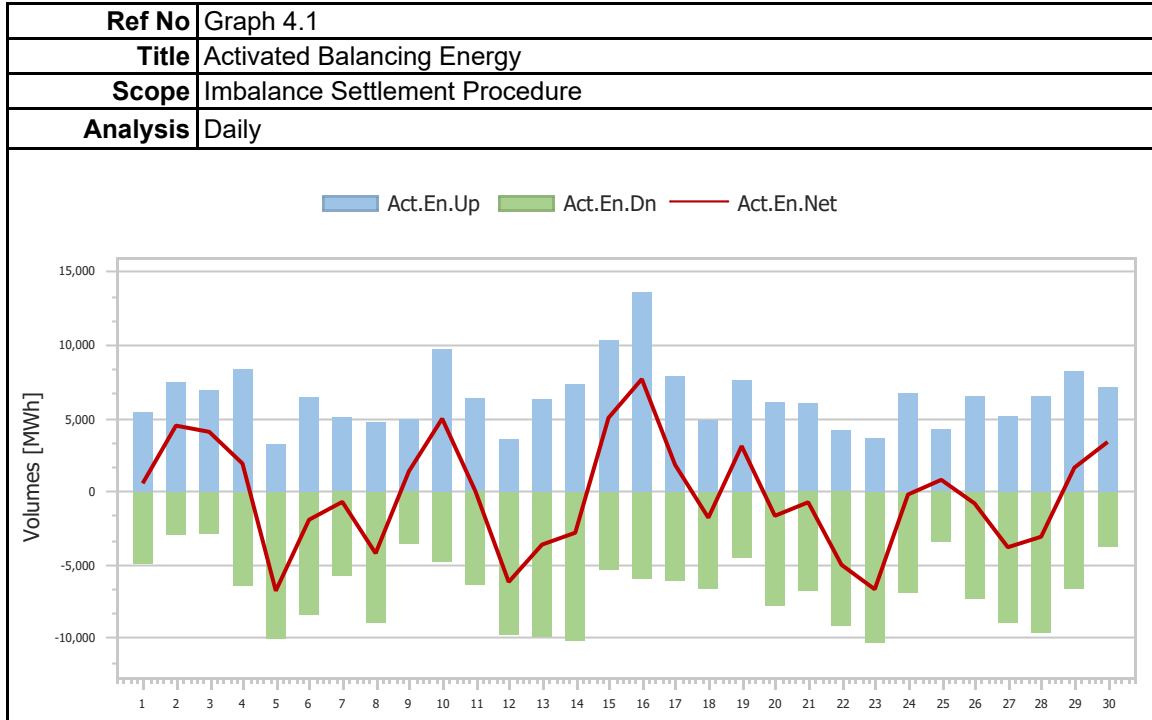
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Title	Upward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



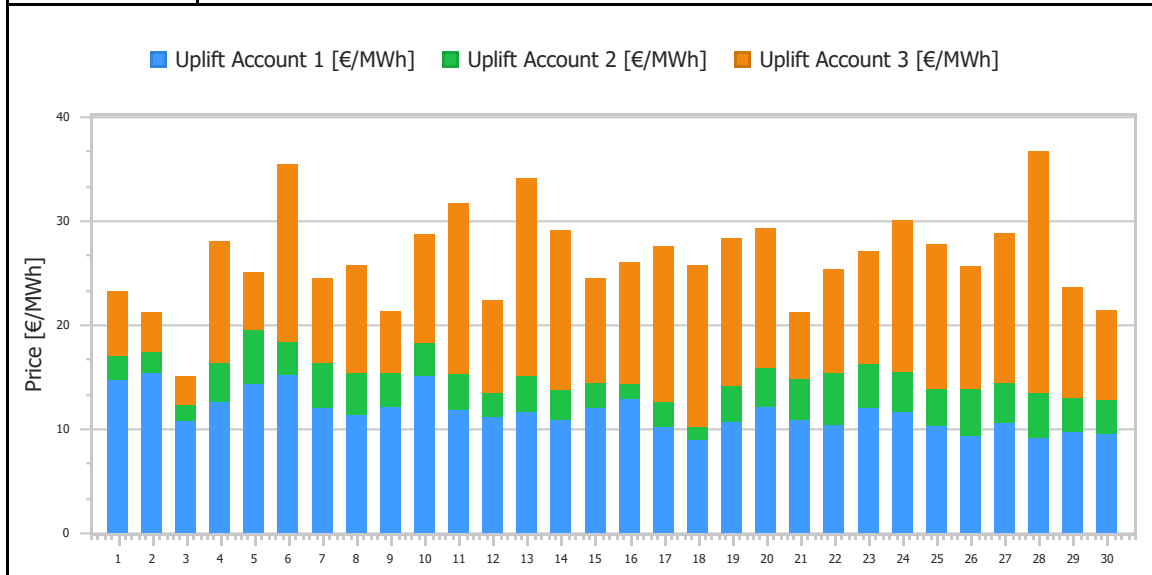




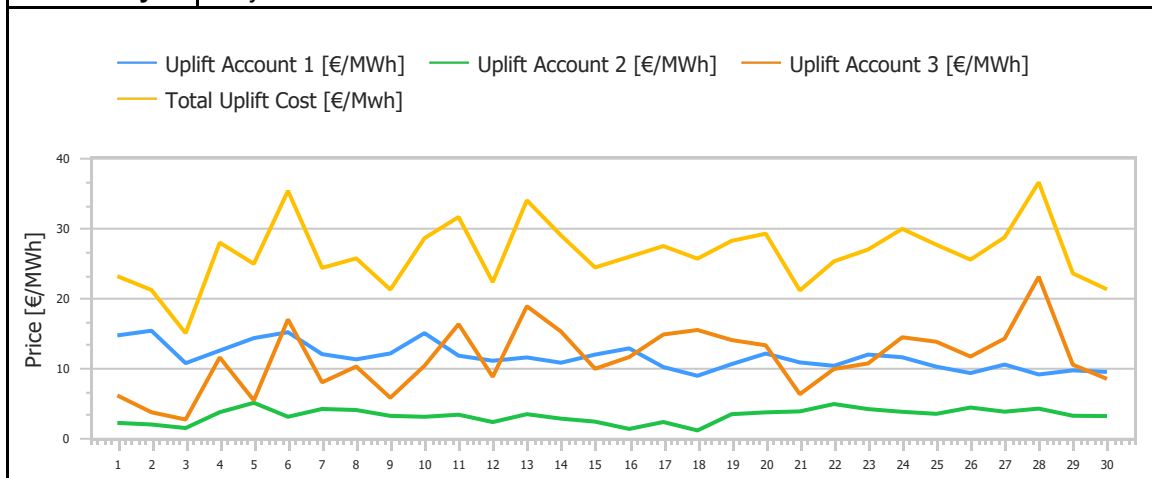
4. Imbalance Settlement Procedure



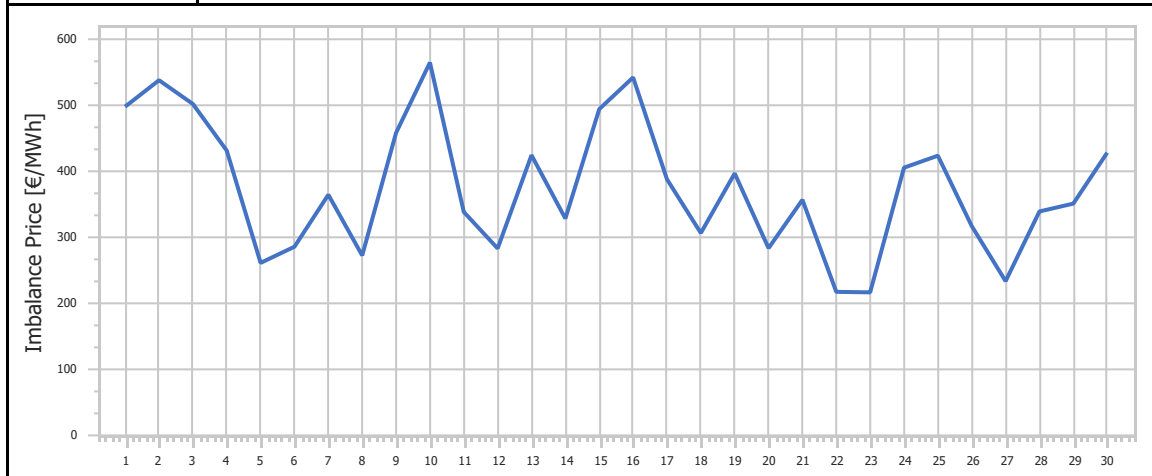
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



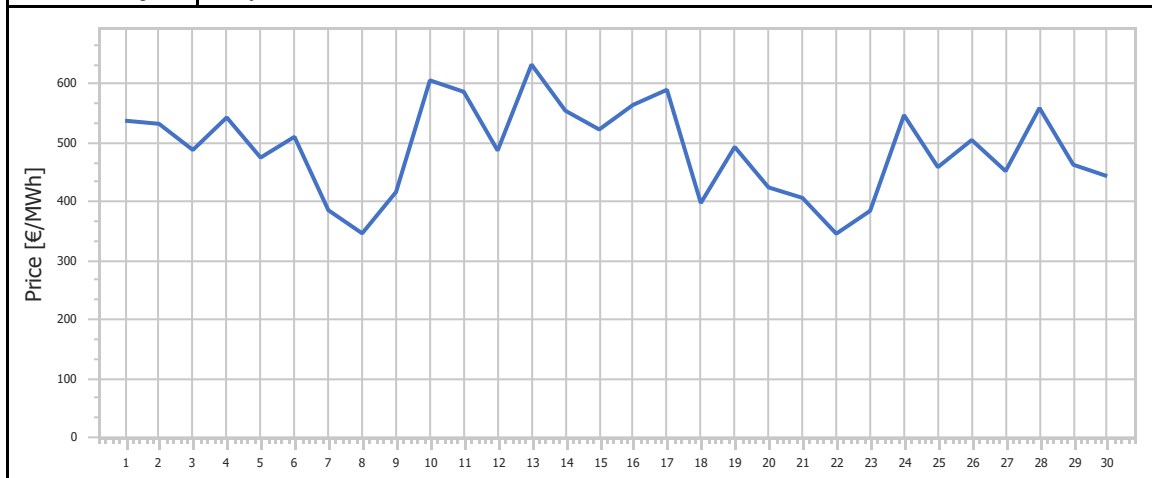
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



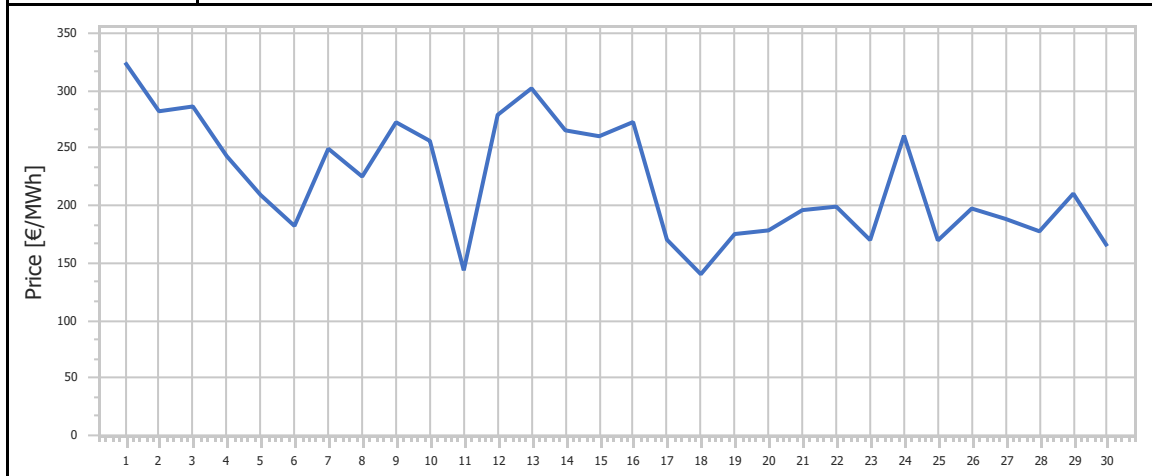
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Title	Imbalance Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



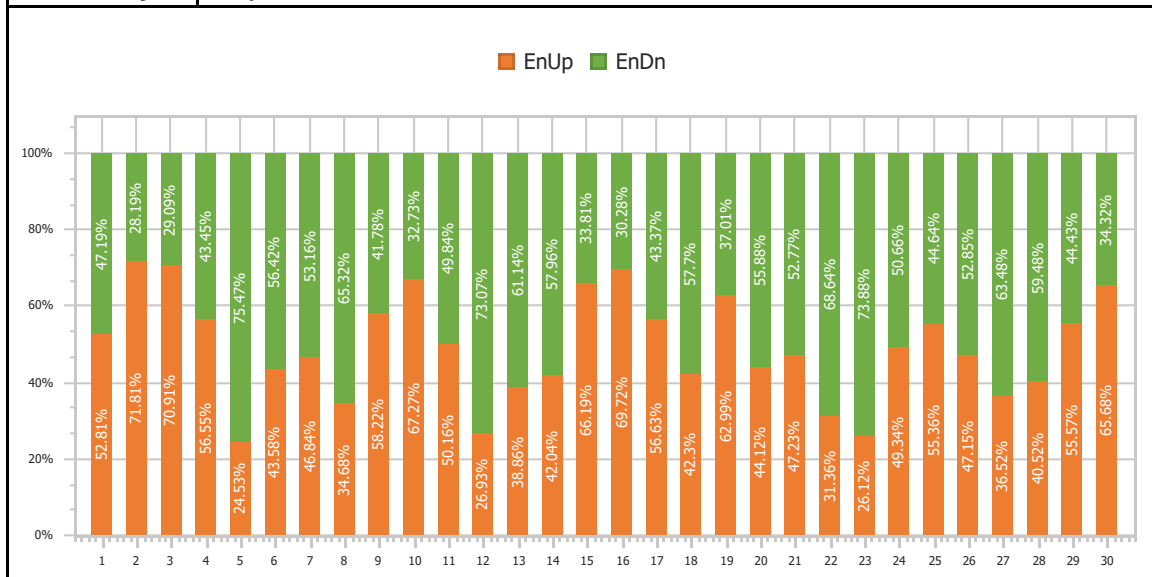
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Title	mFRR Up Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



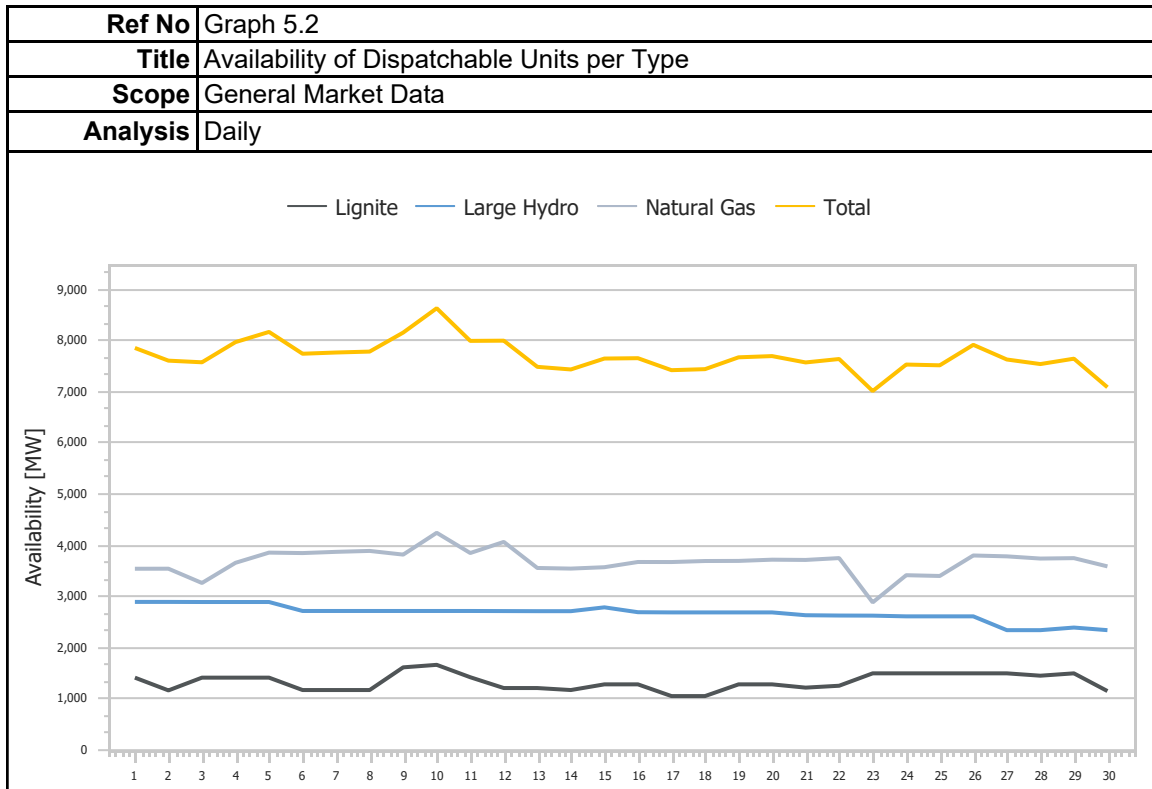
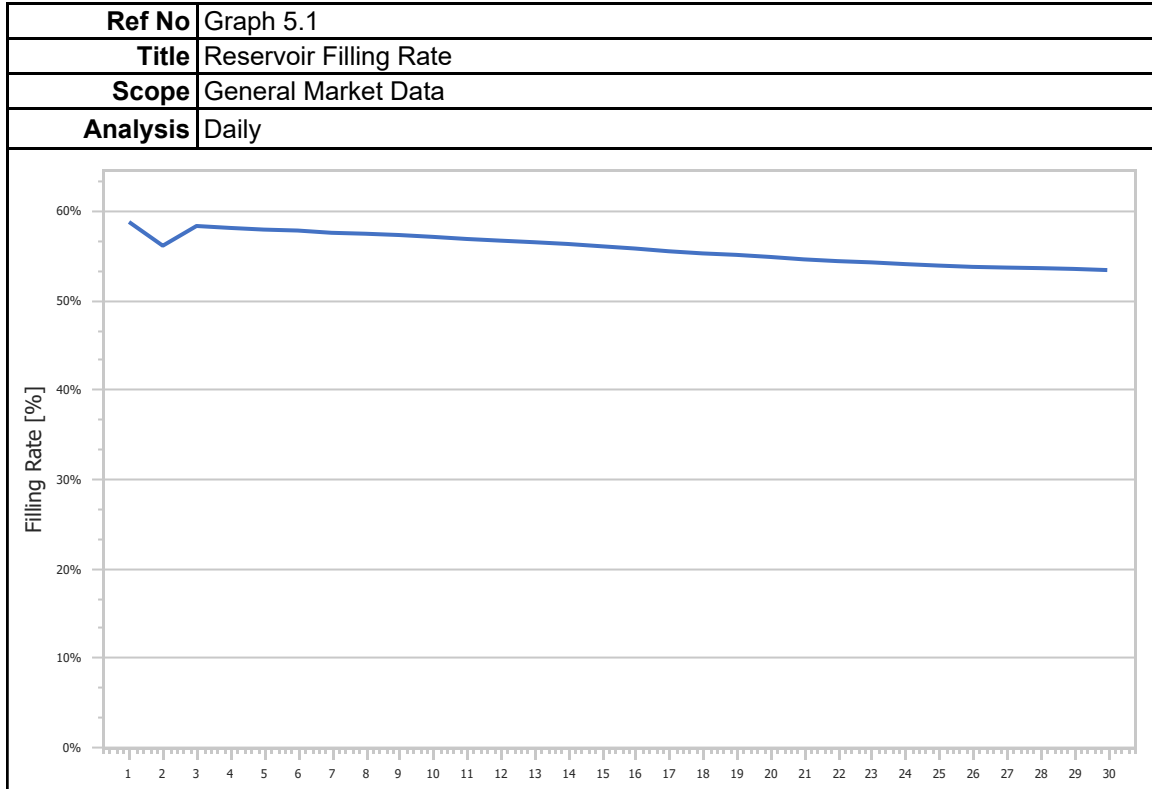
Ref No	Graph 4.7
Title	mFRR Down Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



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	415,157.000	9.73%	180,381,126.55€	10.02%
Crete Conventional	221,257.350	5.18%	95,104,376.01€	5.28%
Natural Gas	1,345,202.455	31.52%	592,815,466.67€	32.92%
Large Hydro	172,493.511	4.04%	83,907,681.84€	4.66%
RES	1,256,525.536	29.44%	499,653,632.08€	27.75%
Crete Renewables	59,099.000	1.38%	24,581,611.44€	1.37%
Imports	797,745.010	18.69%	324,352,860.09€	18.01%
Total	4,267,479.860	100.00%	1,800,796,754.67€	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	-	4,267,479.86	415,157.00	221,257.35	1,345,202.46	172,493.51	1,256,525.54	59,099.00	797,745.01
Average	416.87	142,249.33	13,838.57	7,375.24	44,840.08	5,749.78	41,884.18	1,969.97	26,591.50
Min	297.78	117,266.24	8,600.00	6,096.10	17,923.68	3,938.00	27,485.38	832.00	7,414.60
Min day	18	25	30	7	18	26	2	16	6
Max	582.94	160,706.86	31,344.00	9,667.35	70,270.80	7,285.05	72,718.45	4,351.00	39,277.00
Max day	1	6	1	1	1	3	6	6	17
Spread	285.16	43,440.62	22,744.00	3,571.25	52,347.13	3,347.05	45,233.07	3,519.00	31,862.40
Standard Deviation	58.39	10,886.85	6,129.78	900.25	11,256.13	949.68	11,588.37	1,126.61	8,105.47

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	94,365.500	2.21%	39,767,114.54€	2.21%
Crete Load	299,433.000	7.02%	126,999,311.84€	7.05%
HV Load	633,244.234	14.84%	263,149,854.15€	14.61%
MV Load	829,141.955	19.43%	349,944,174.44€	19.43%
LV Load	2,093,610.619	49.06%	888,322,464.43€	49.33%
PUMP	9,637.829	0.23%	3,167,523.26€	0.18%
Exports	308,045.920	7.22%	129,445,990.31€	7.19%
Total	4,267,479.058	100.00%	1,800,796,432.96€	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	-	4,267,479.06	94,365.50	299,433.00	633,244.23	829,141.96	2,093,610.62	9,637.83	308,045.92
Average	416.87	142,249.30	3,145.52	9,981.10	21,108.14	27,638.07	69,787.02	458.94	10,268.20
Min	297.78	117,266.22	2,171.50	8,108.00	19,724.00	20,433.18	60,382.96	41.16	3,658.10
Min day	18	25	4	25	26	25	25	16	25
Max	582.94	160,706.93	3,969.50	11,896.00	22,766.06	31,169.67	83,338.84	1,175.00	24,701.90
Max day	1	6	16	1	10	2	1	22	6
Spread	285.16	43,440.71	1,798.00	3,788.00	3,042.06	10,736.49	22,955.88	1,133.84	21,043.80
Standard Deviation	58.39	10,886.86	438.84	823.81	808.29	3,199.14	5,806.19	229.81	5,414.54

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	1,390,596.190	72.50%	6,578,640.42€	86.23%
FCR	121,934.900	6.36%	588,713.70€	7.72%
mFRR	405,514.510	21.14%	461,522.75€	6.05%
Total	1,918,045.600	100.00%	7,628,876.87€	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	331,105.800	41.11%	2,129,068.74€	44.89%
FCR	129,616.980	16.09%	860,845.20€	18.15%
mFRR	344,781.290	42.80%	1,753,386.11€	36.97%
Total	805,504.070	100.00%	4,743,300.05€	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	71,615.520	36.71%	41,292,858.83€	36.61%
mFRR	123,450.330	63.29%	71,501,747.65€	63.39%
Total	195,065.840	100.00%	112,794,606.48€	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	41,651.720	20.47%	7,886,151.70€	19.21%
mFRR	161,858.520	79.53%	33,172,806.58€	80.79%
Total	203,510.230	100.00%	41,058,958.28€	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	4,267,479.86	94.87%
IDMA1	146,571.07	3.26%
IDMA2	60,862.44	1.35%
IDMA3	32,006.26	0.71%
IDM (Total)	239,439.77	5.32%
Balancing Energy (Up)	195,065.84	4.34%
Balancing Energy (Dn)	203,510.23	4.52%
Balancing Energy (Total)	-8,444.39	-0.19%
Total	4,498,475.24	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	1,800,796,754.67€	90.87%
IDMA1	60,398,838.30€	3.05%
IDMA2	23,923,934.54€	1.21%
IDMA3	12,590,107.80€	0.64%
IDM (Total)	96,912,880.64€	4.89%
Balancing Capacity (Up)	7,628,876.87€	0.38%
Balancing Capacity (Dn)	4,743,300.05€	0.24%
Balancing Capacity (Total)	12,372,176.92€	0.62%
Balancing Energy (Up)	112,794,606.48€	5.69%
Balancing Energy (Dn)	41,058,958.28€	2.07%
Balancing Energy (Total)	71,735,648.20€	3.62%
Balancing Market (Total)	84,107,825.12€	4.24%
Total	1,981,817,460.43€	100.00%