

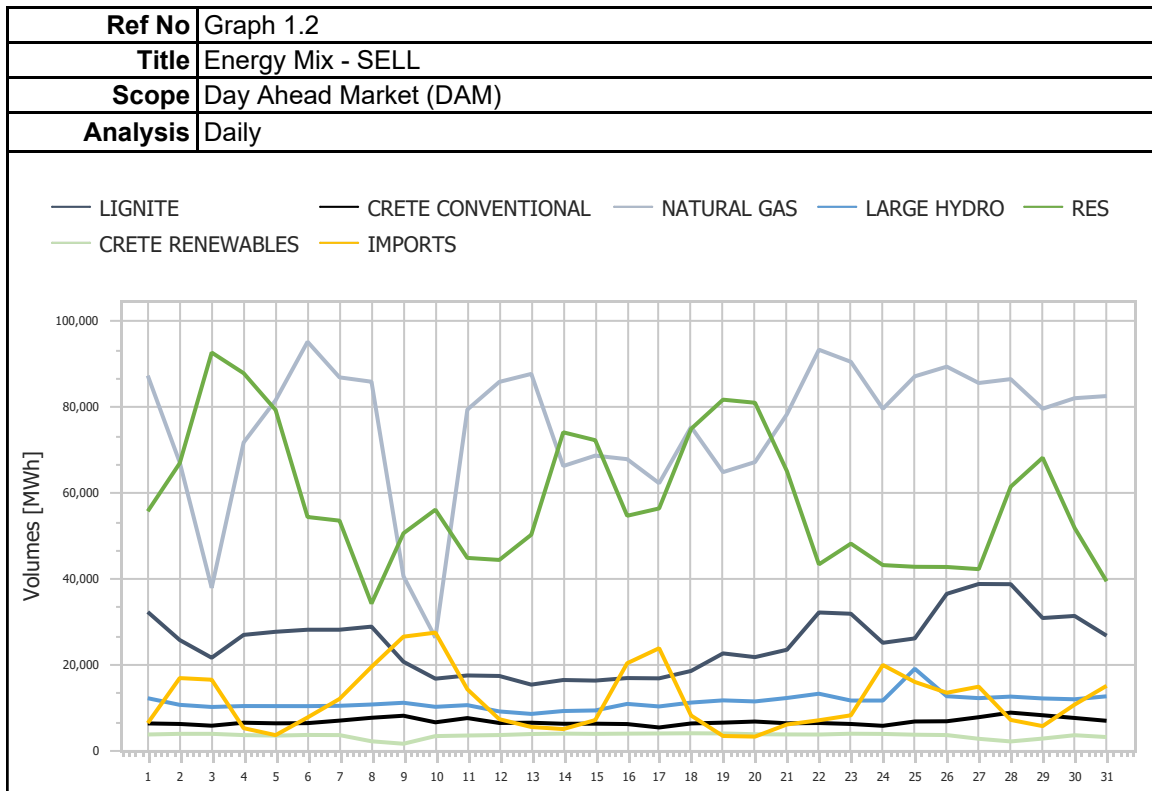
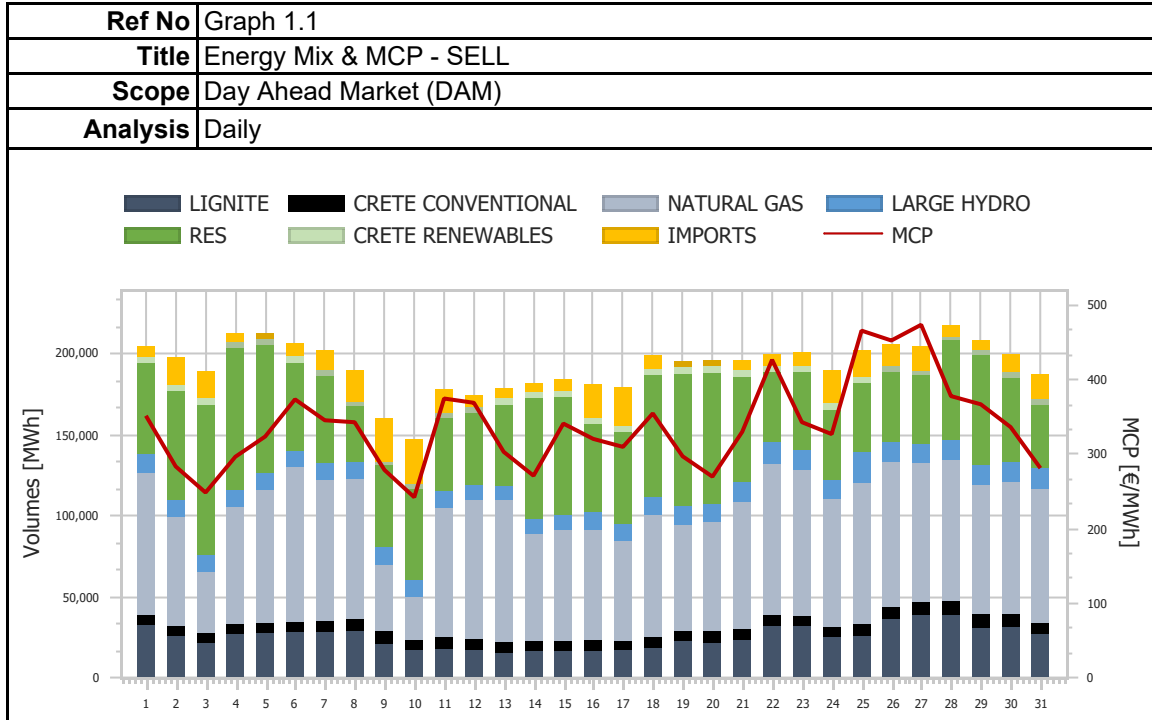
Market Monitoring Report

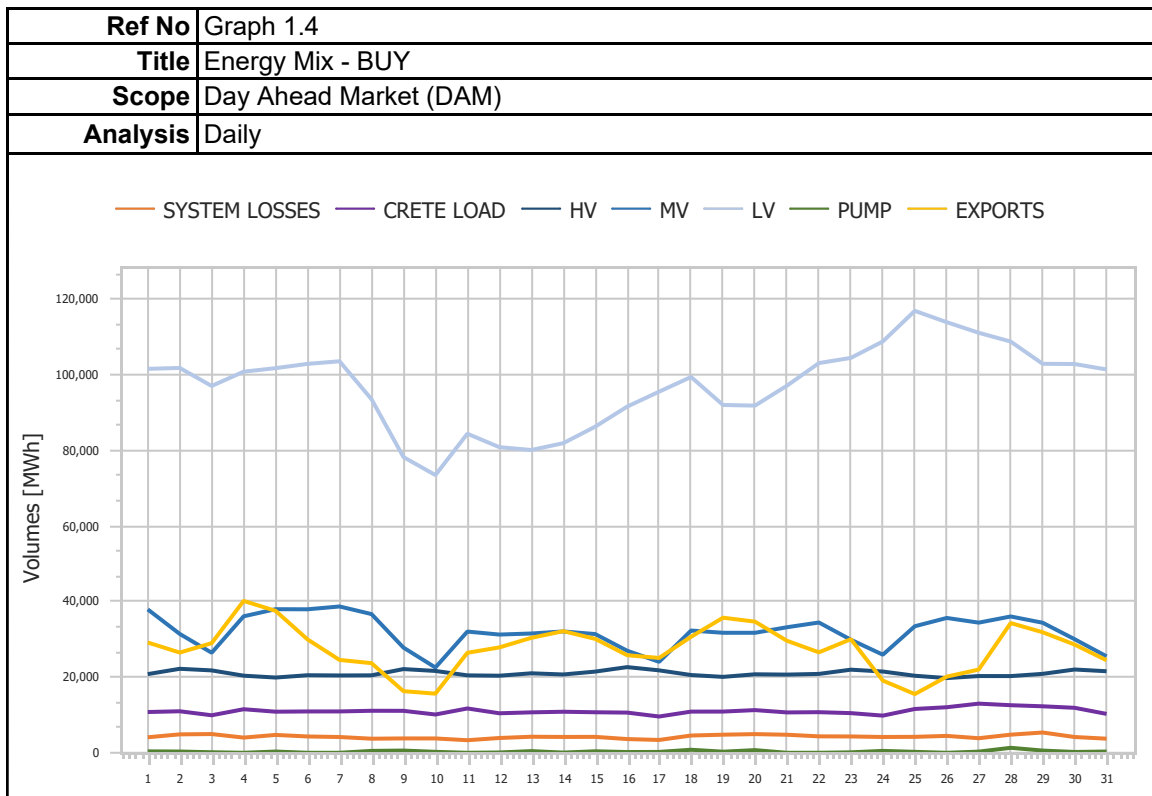
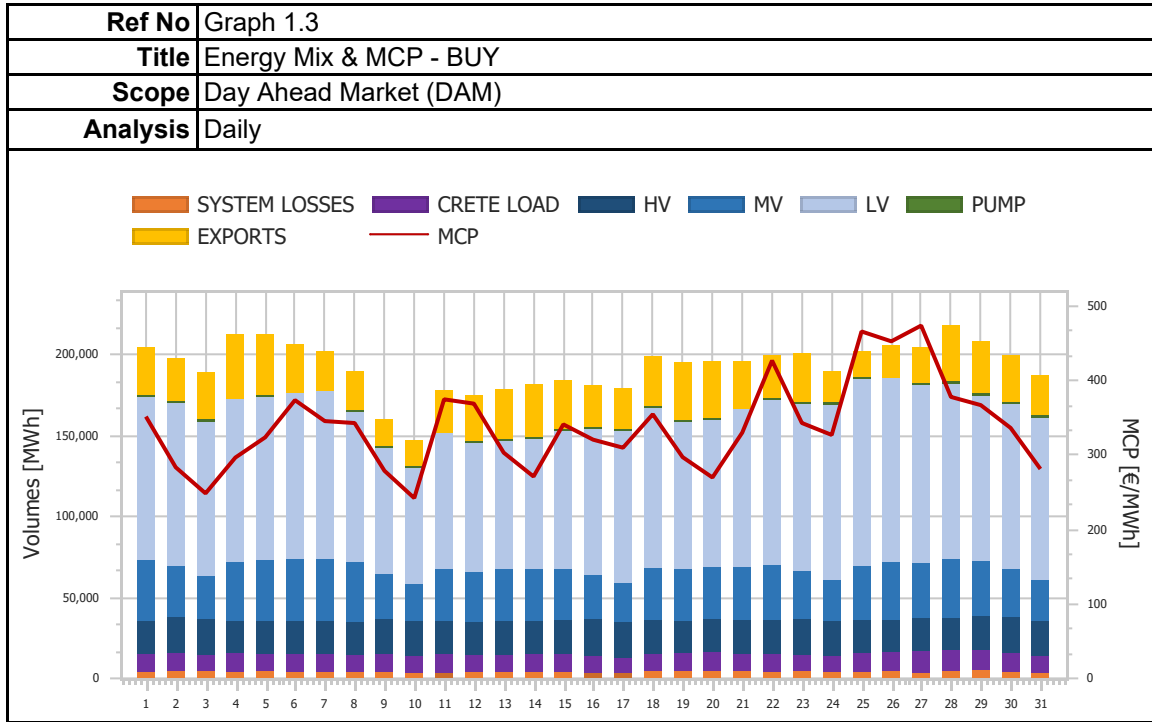
Monthly - Public - 2

07-2022

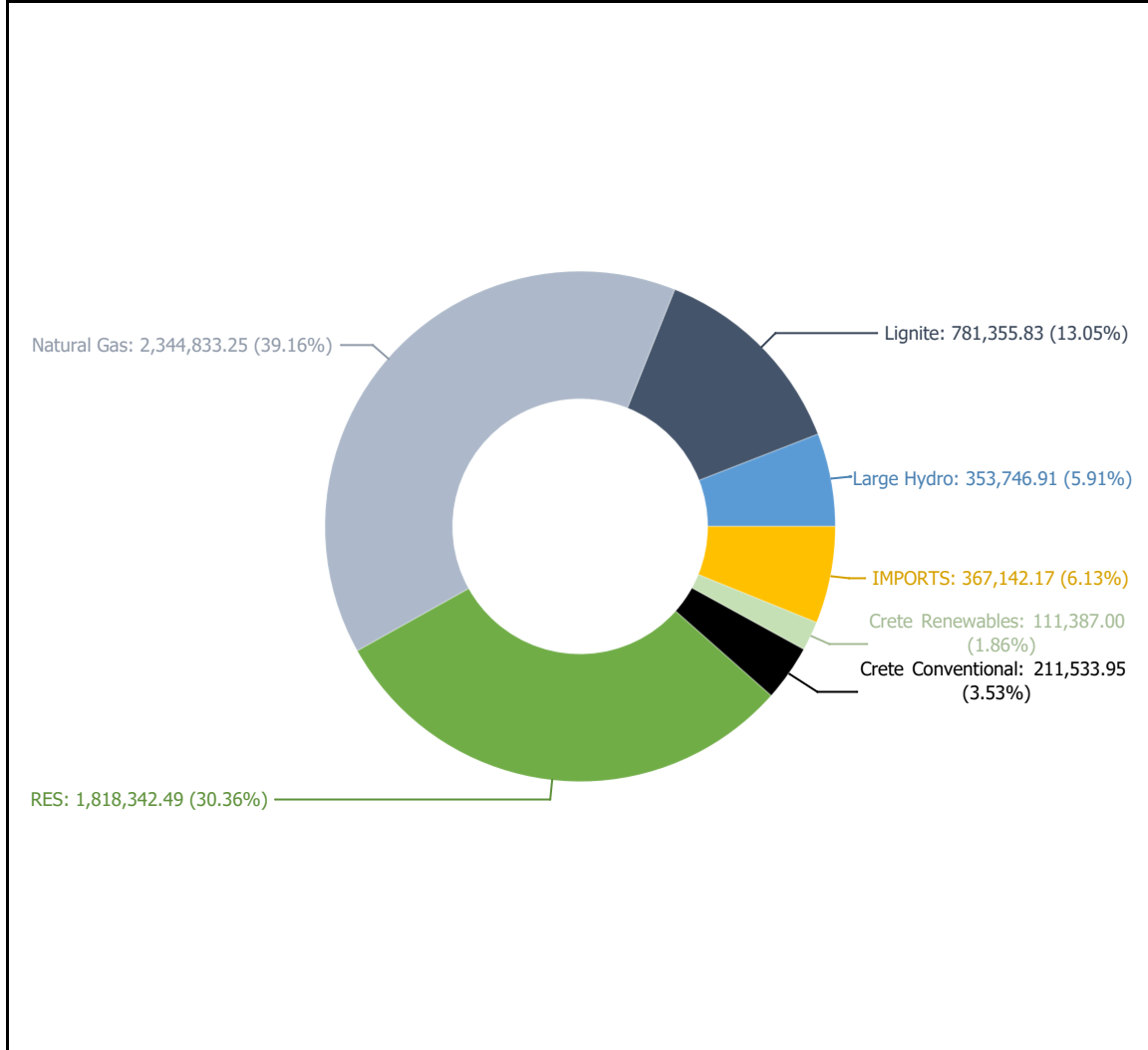


1. Day Ahead Market (DAM)

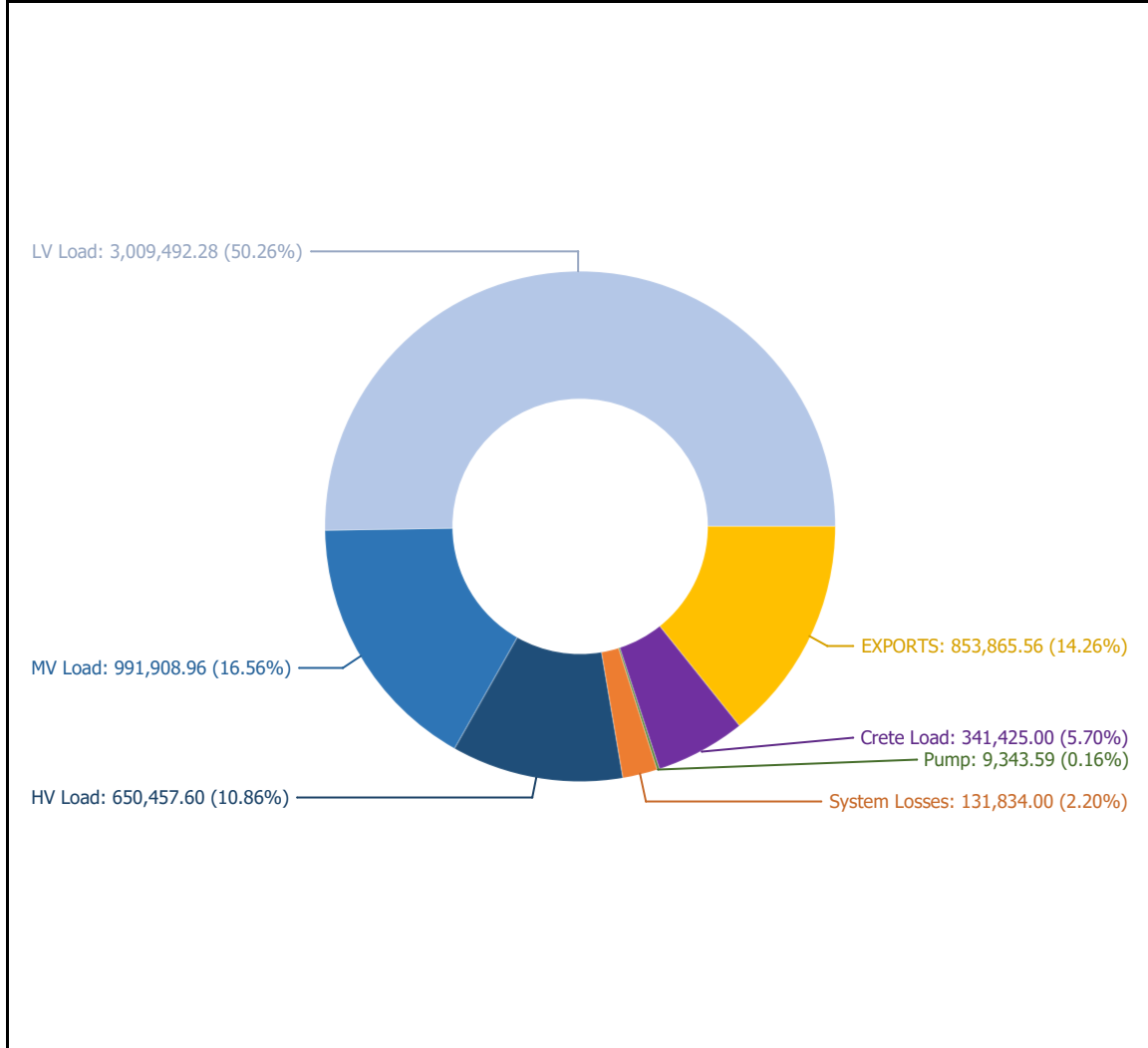


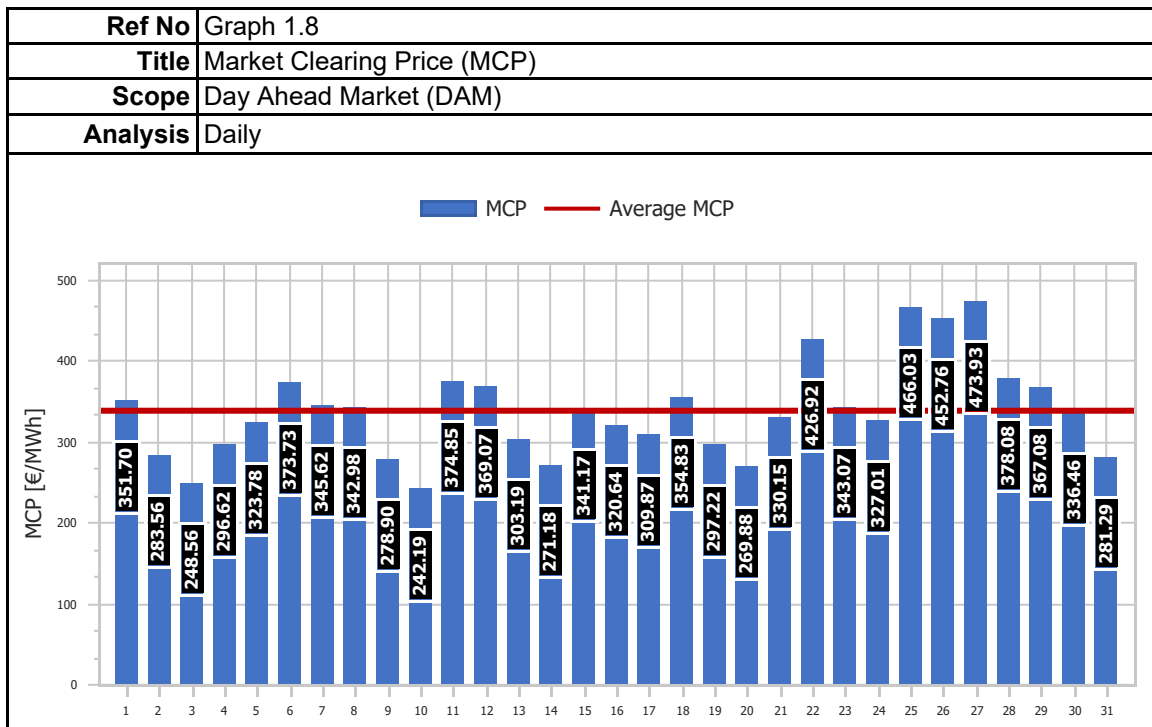
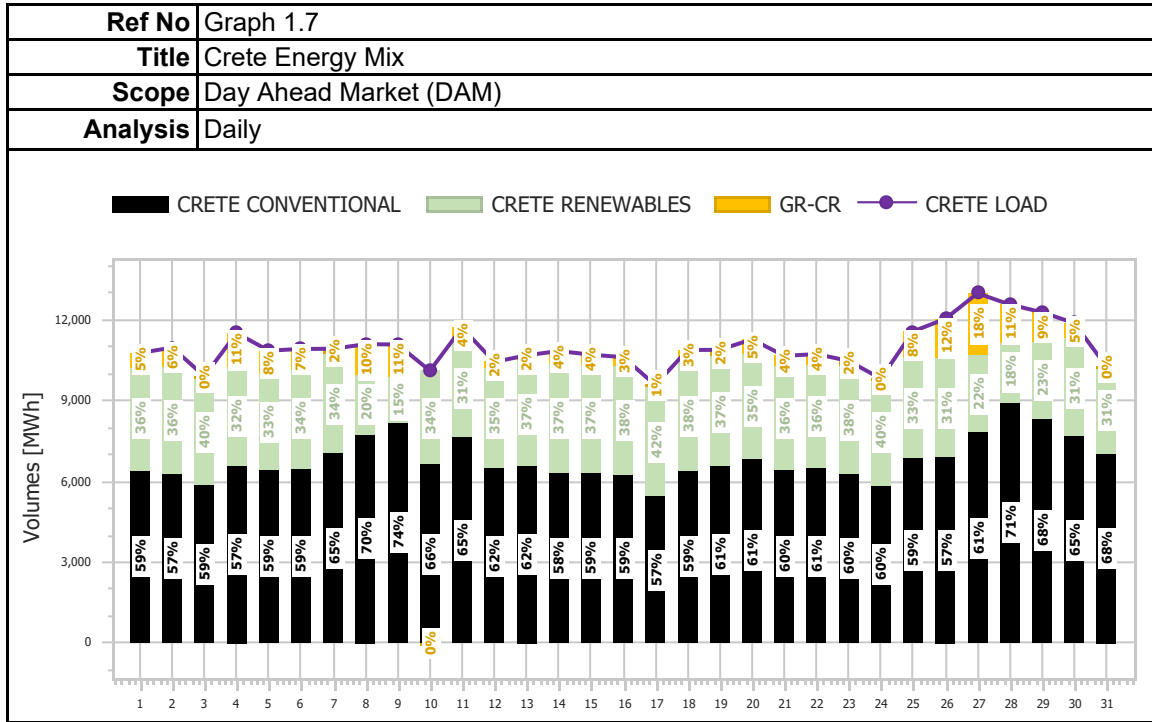


Ref No	Graph 1.5
Title	Energy Mix - SELL
Scope	Day Ahead Market (DAM)
Analysis	Daily

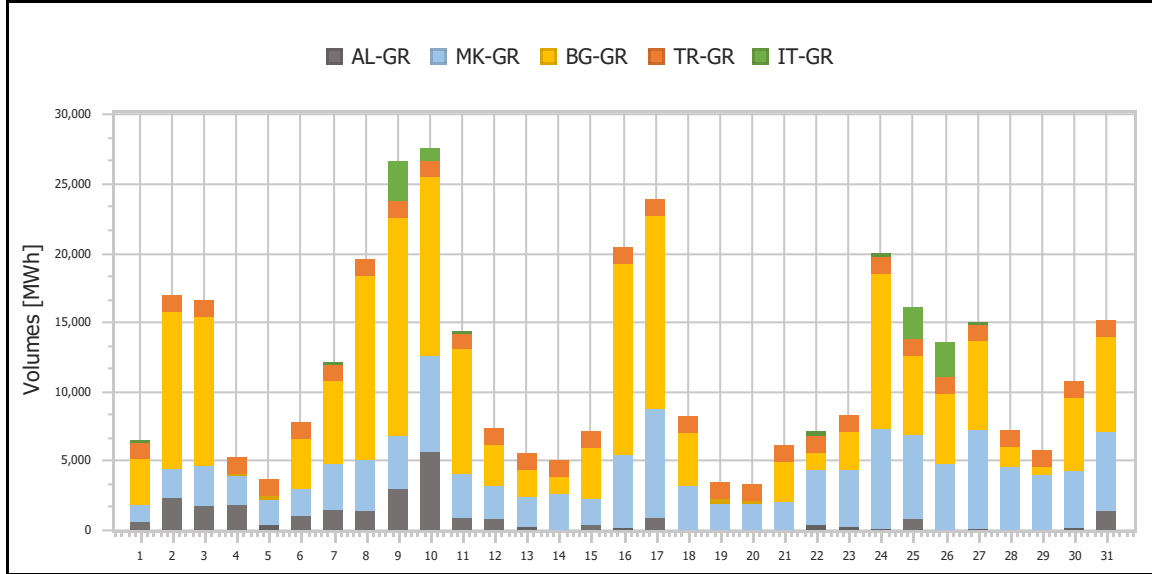


Ref No	Graph 1.6
Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily

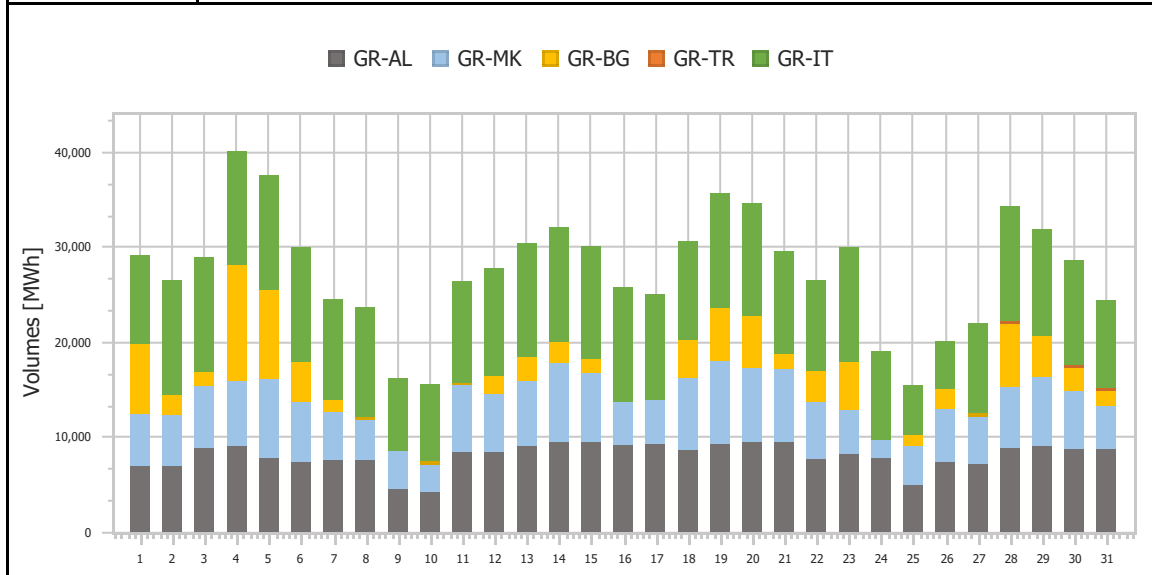




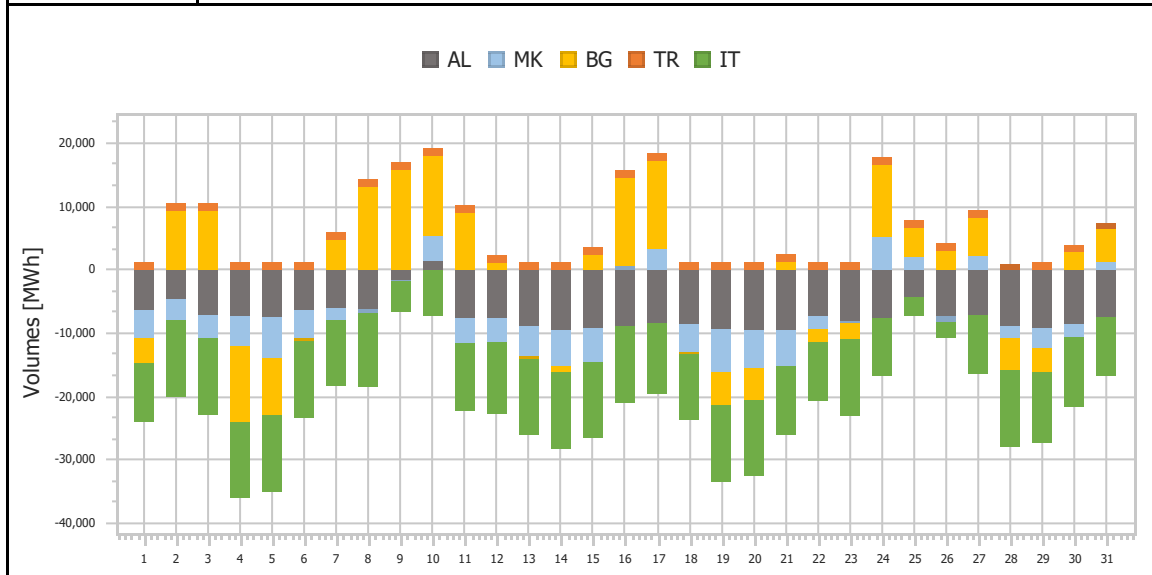
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Title	Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



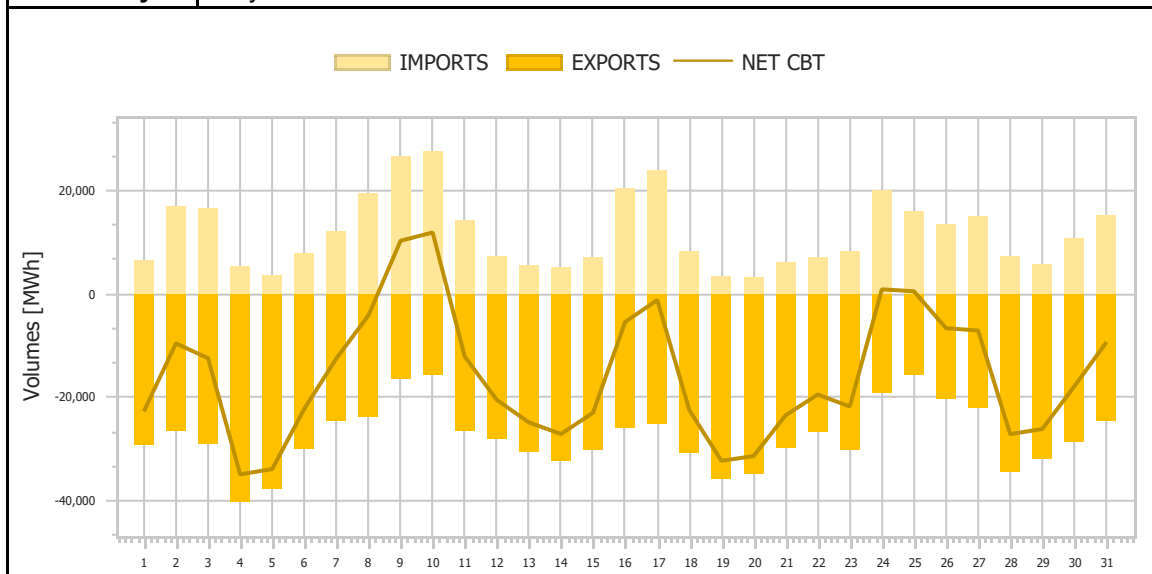
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Title	Exports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



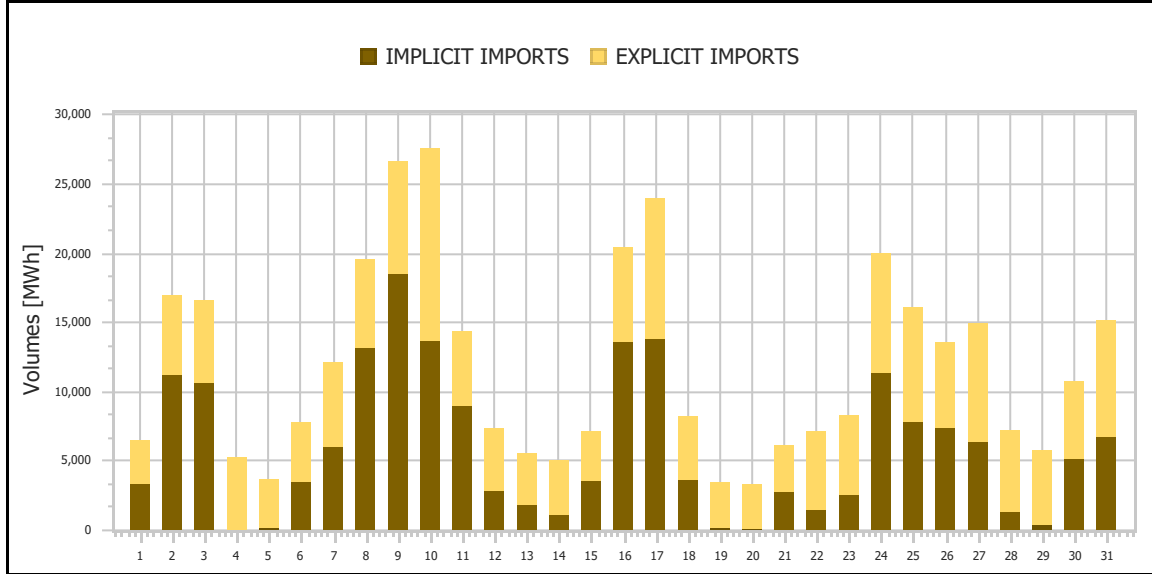
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Title	Net Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



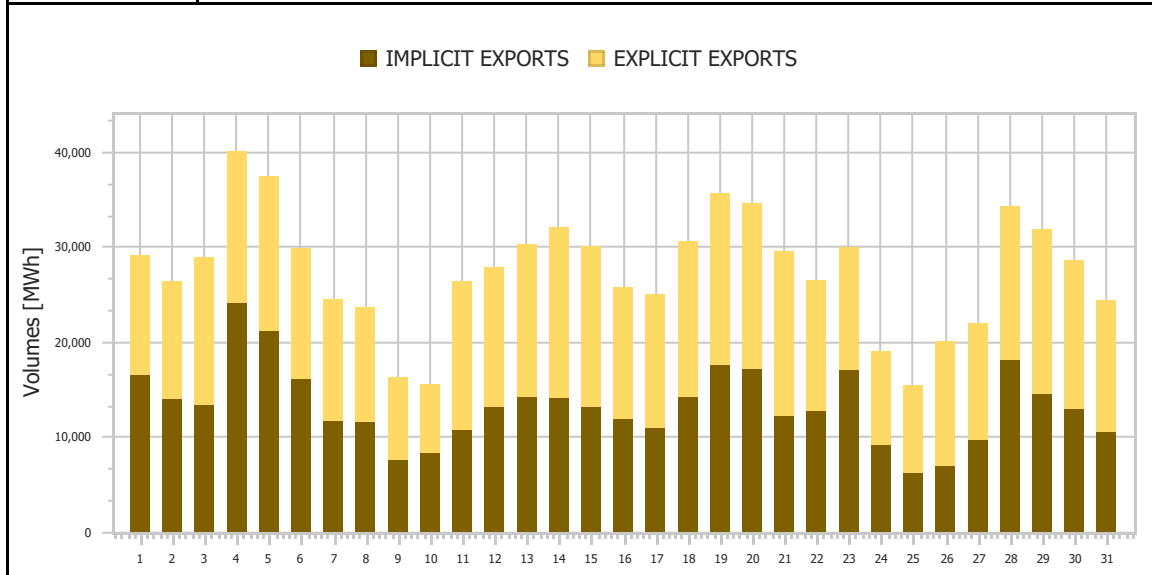
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Title	Total Imports & Exports
Scope	Day Ahead Market (DAM)
Analysis	Daily

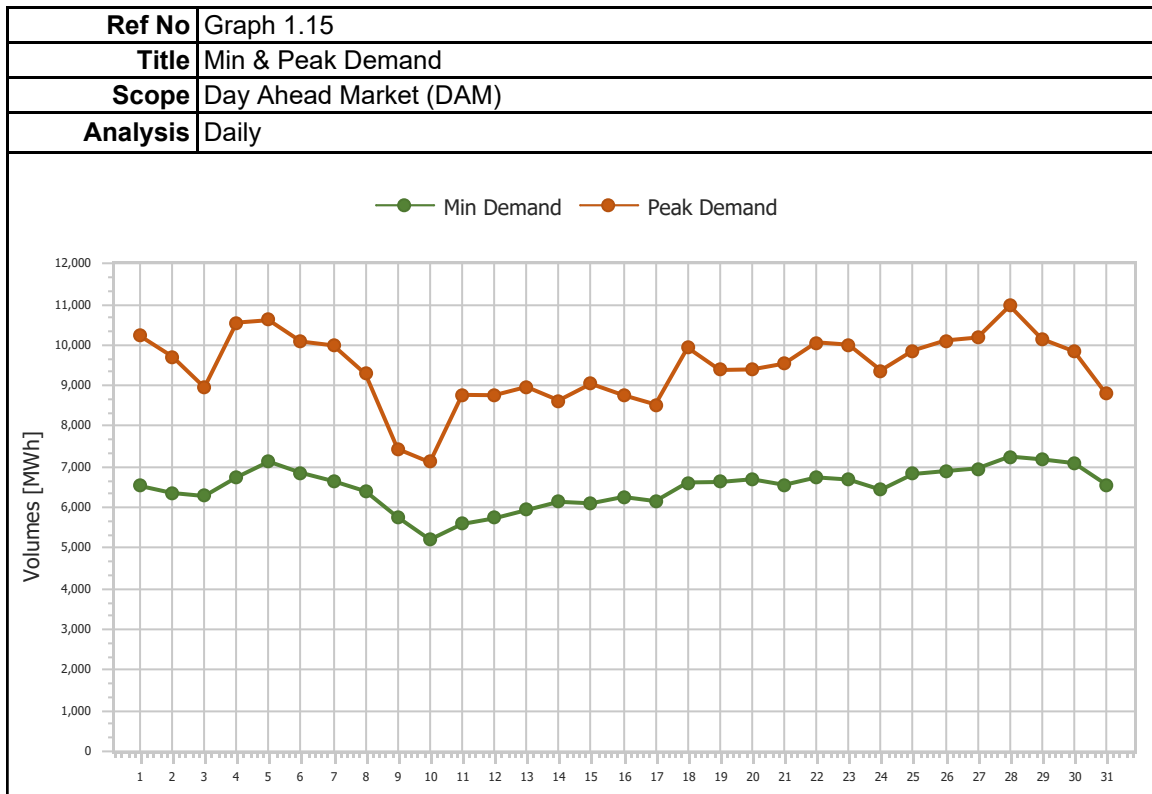


Ref No	Graph 1.13
Title	Imports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Daily

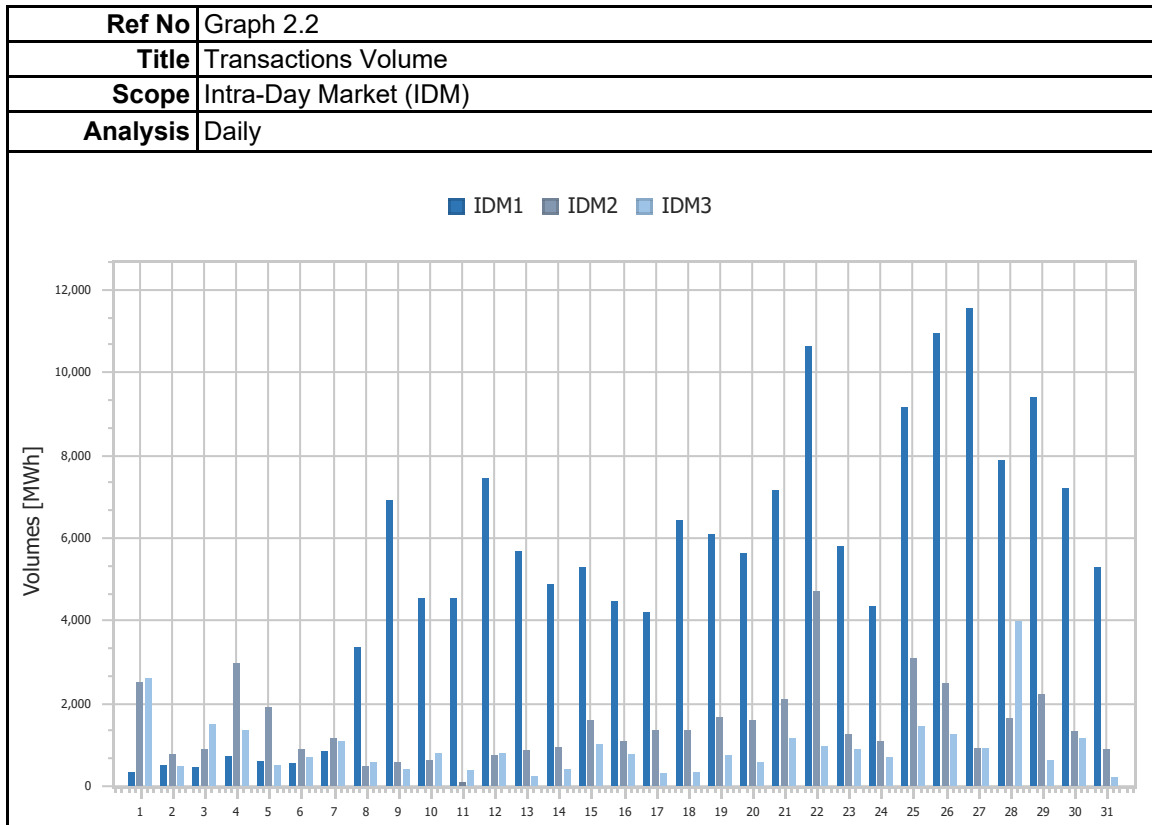
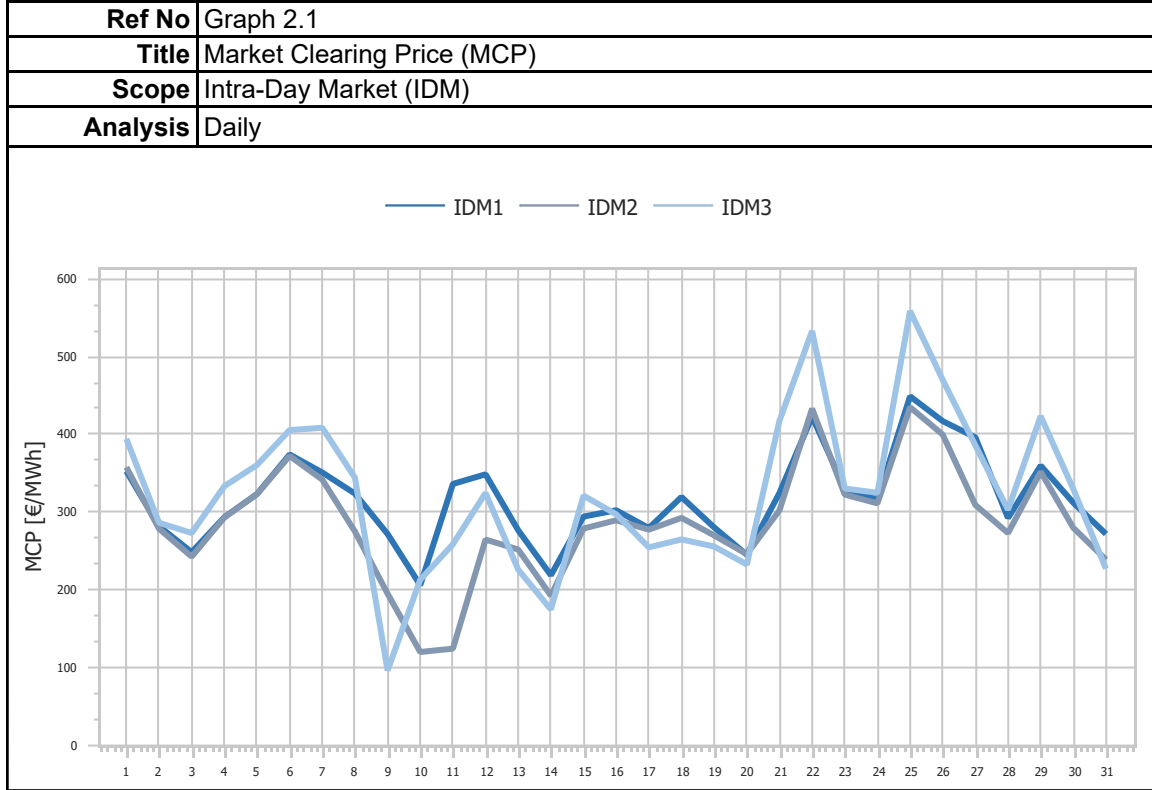


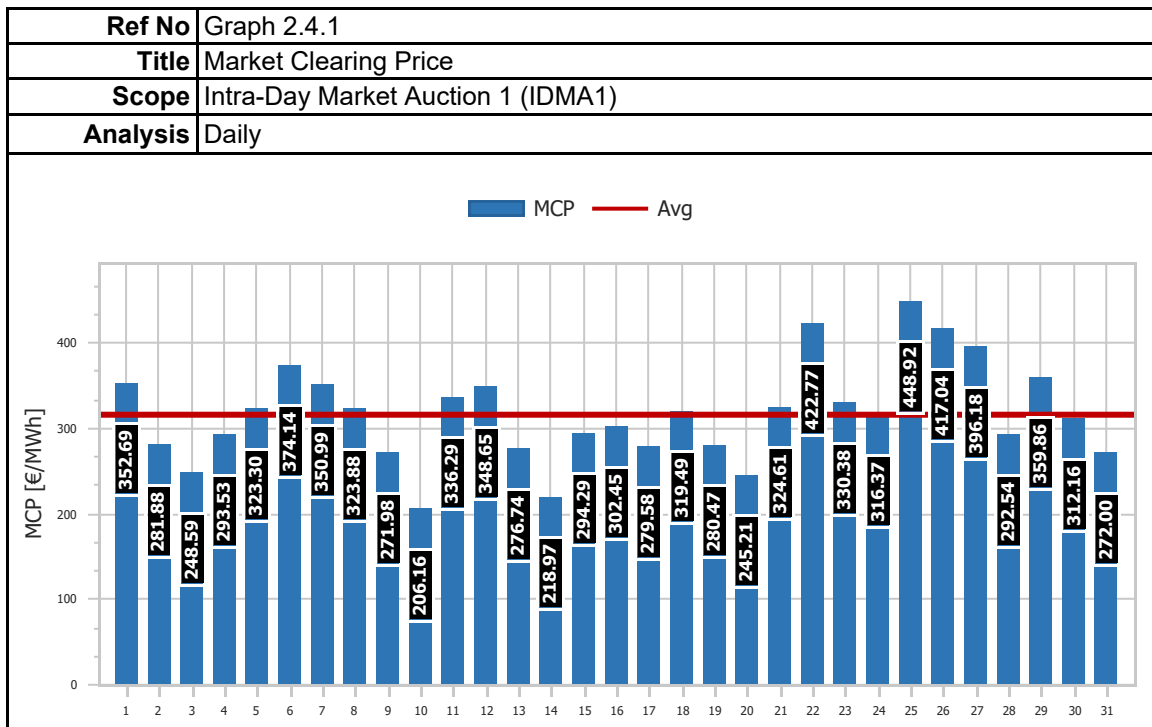
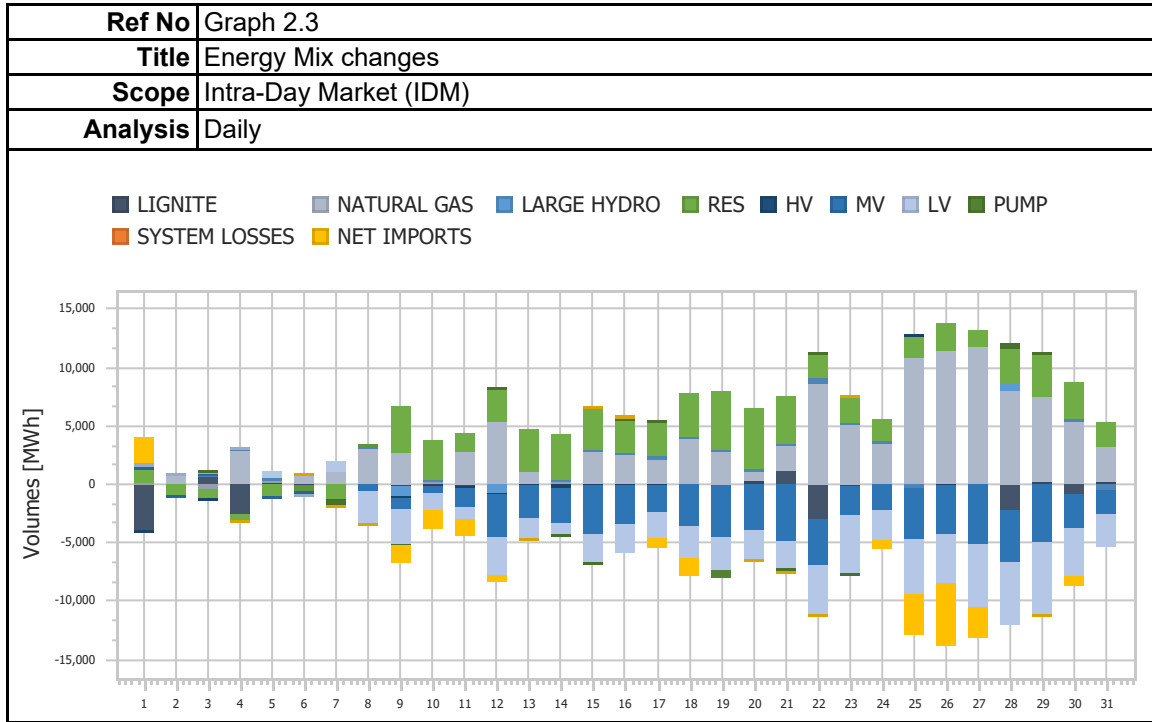
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Title	Exports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Monthly



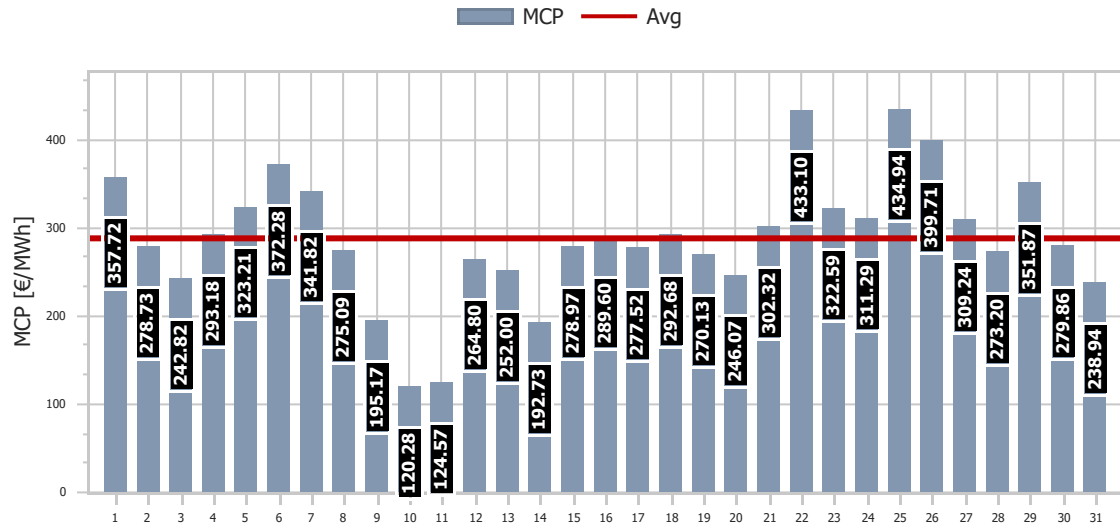


2. Intra-Day Market (IDM)

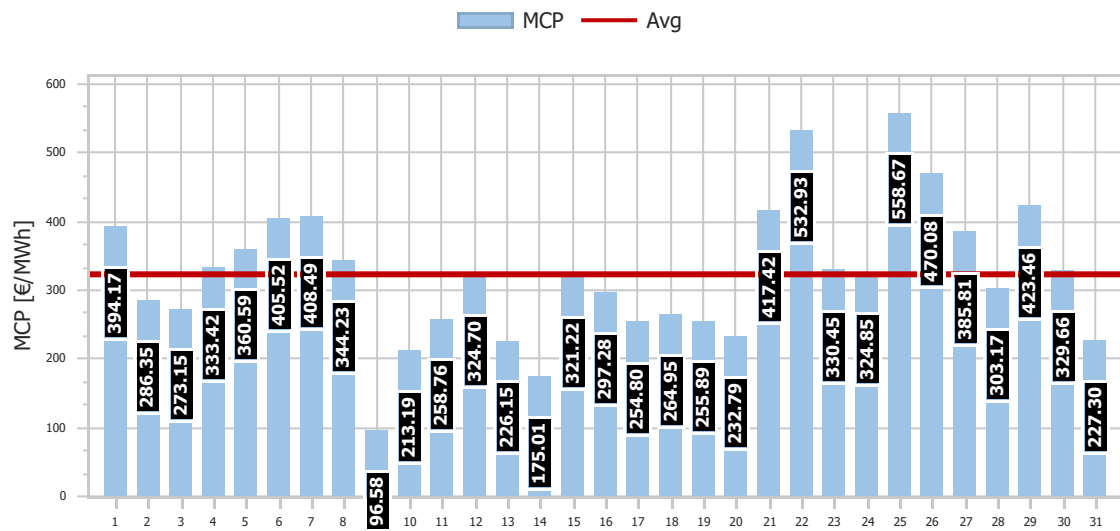


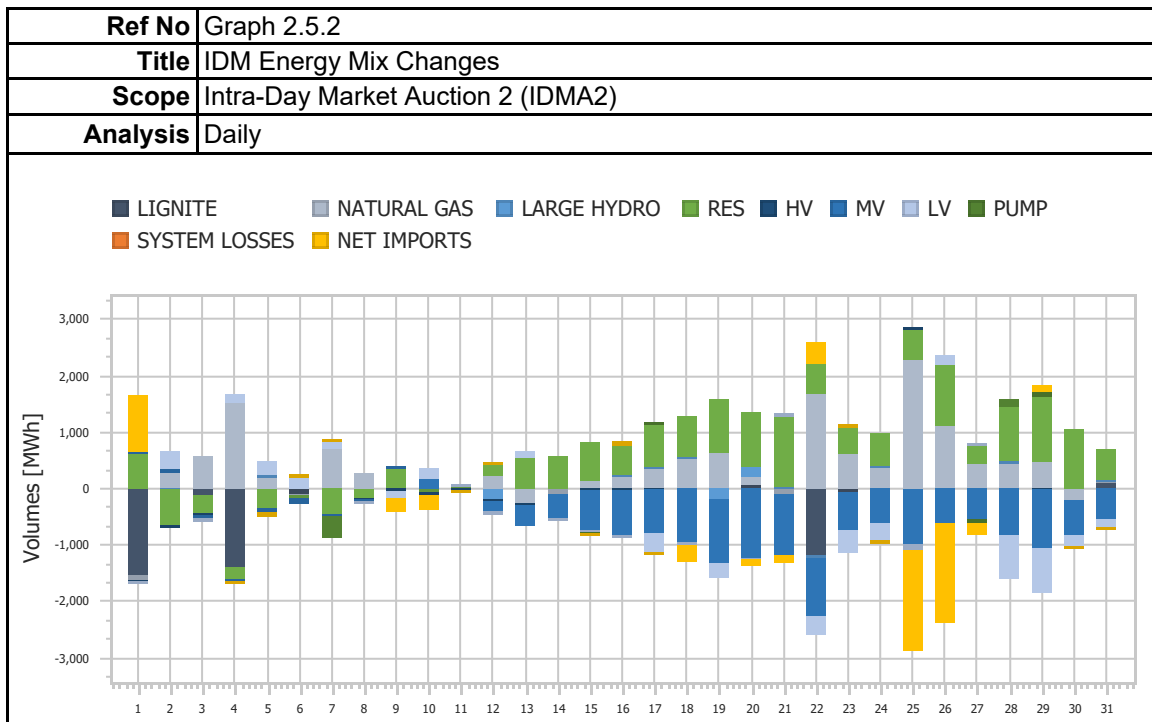
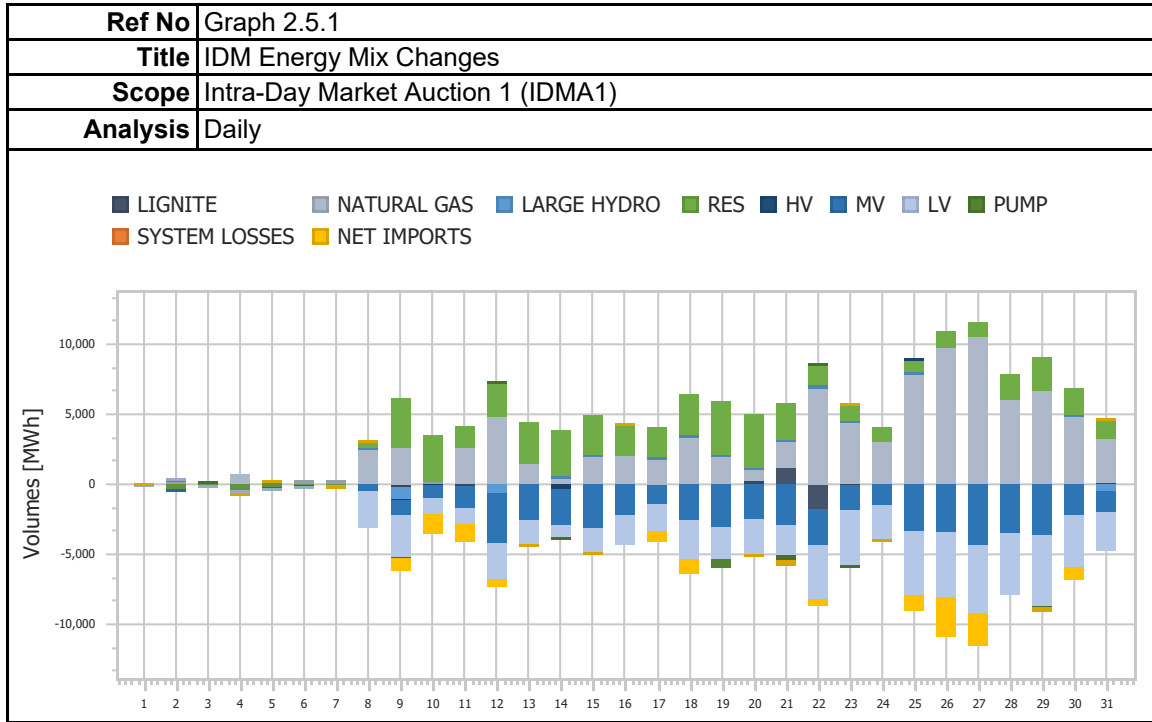


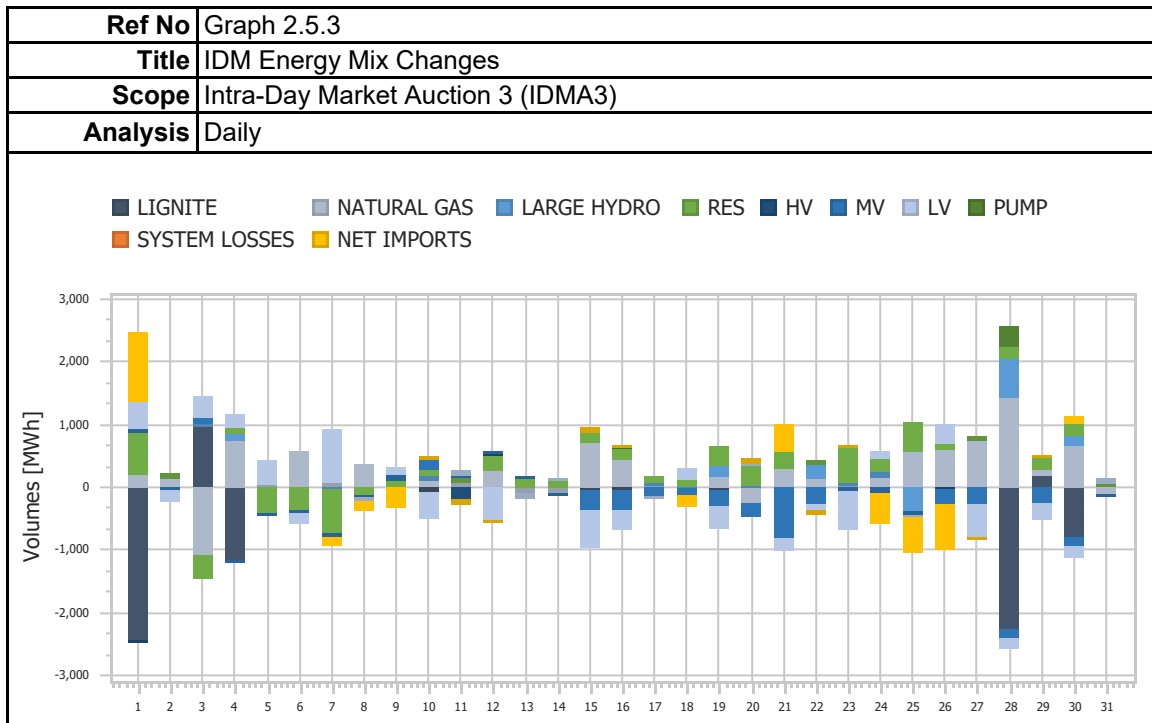
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Title	Market Clearing Price
Scope	Intra-Day Market Auction 2 (IDMA2)
Analysis	Daily



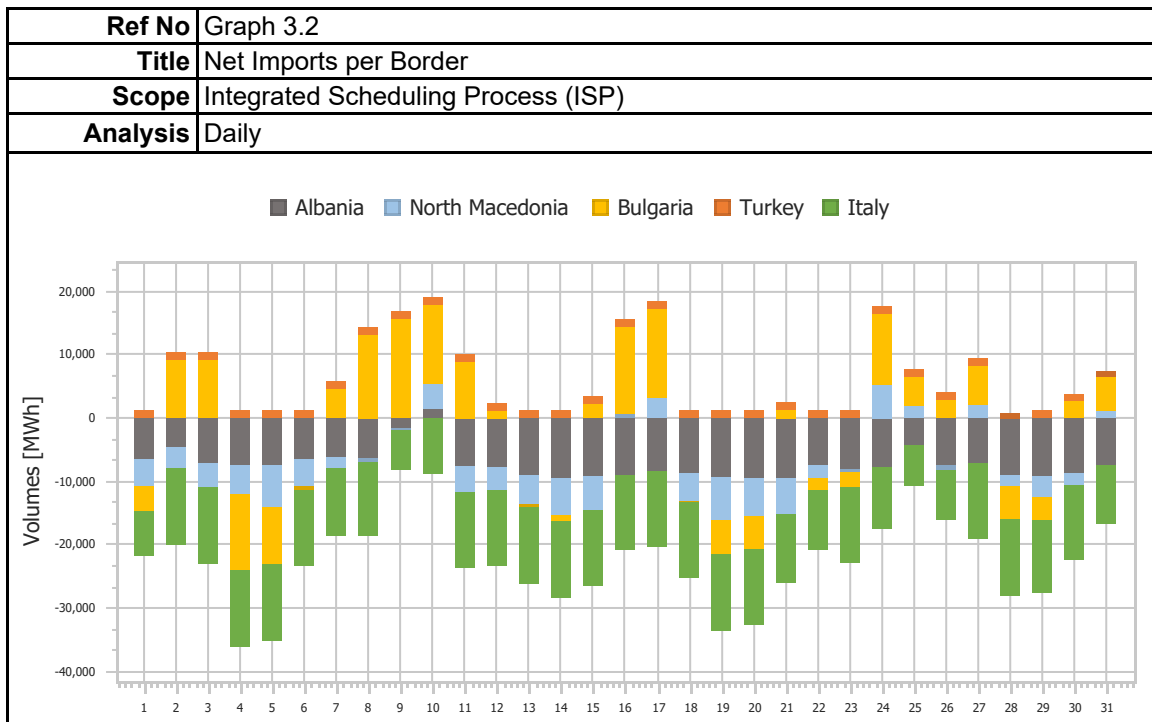
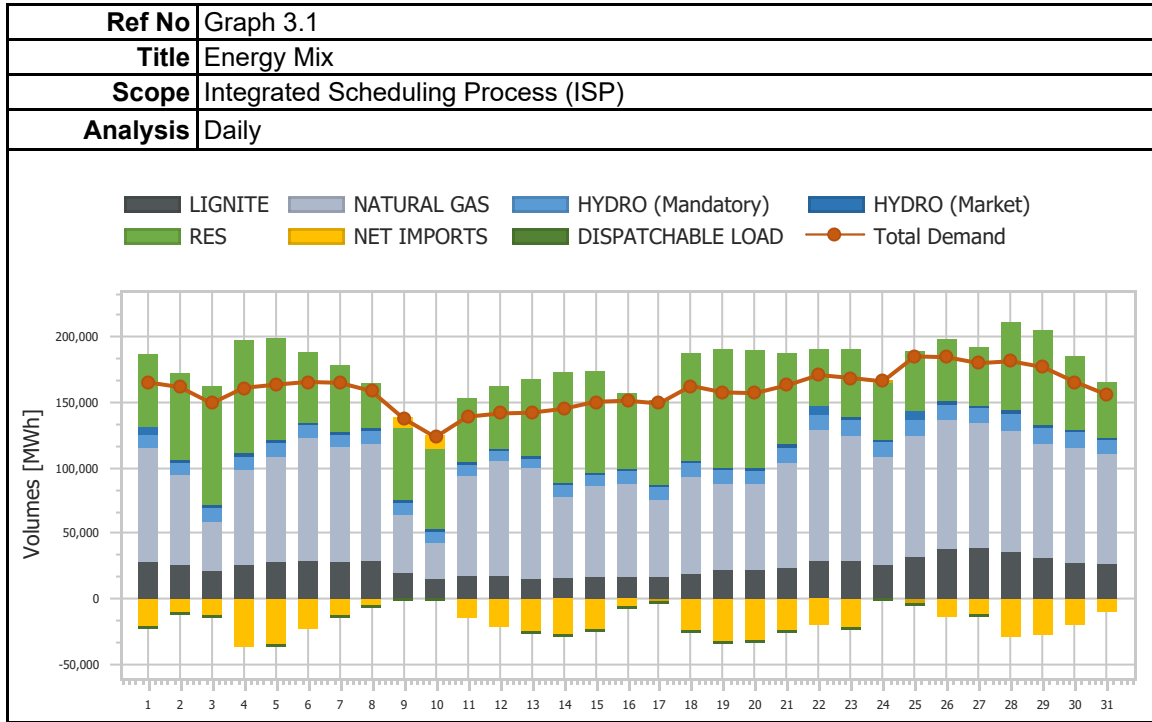
Ref No	Graph 2.4.3
Title	Market Clearing Price
Scope	Intra-Day Market Auction 3 (IDMA3)
Analysis	Daily



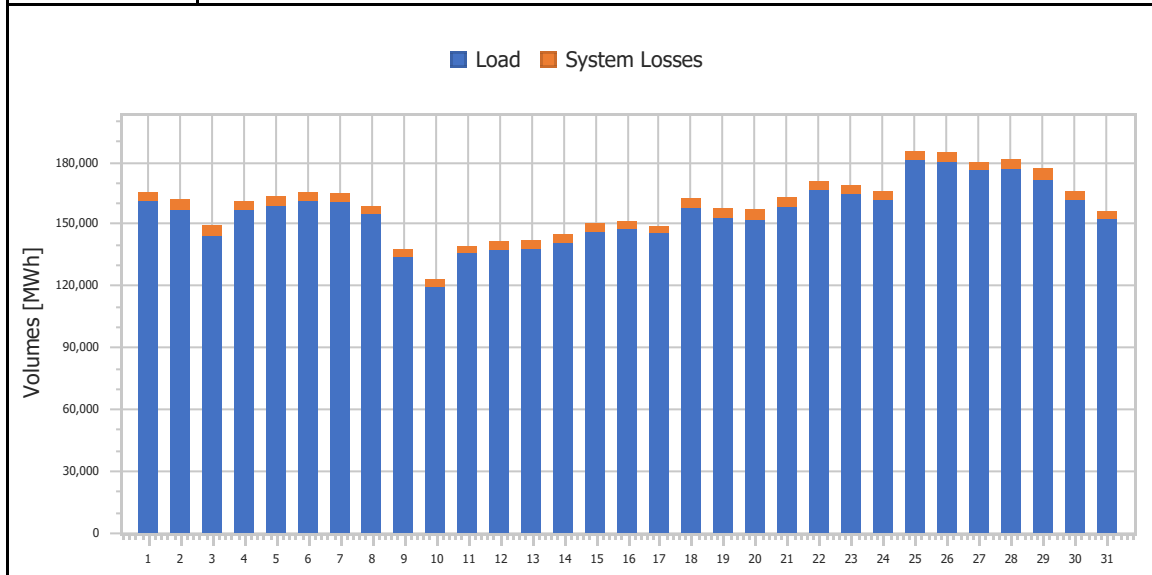




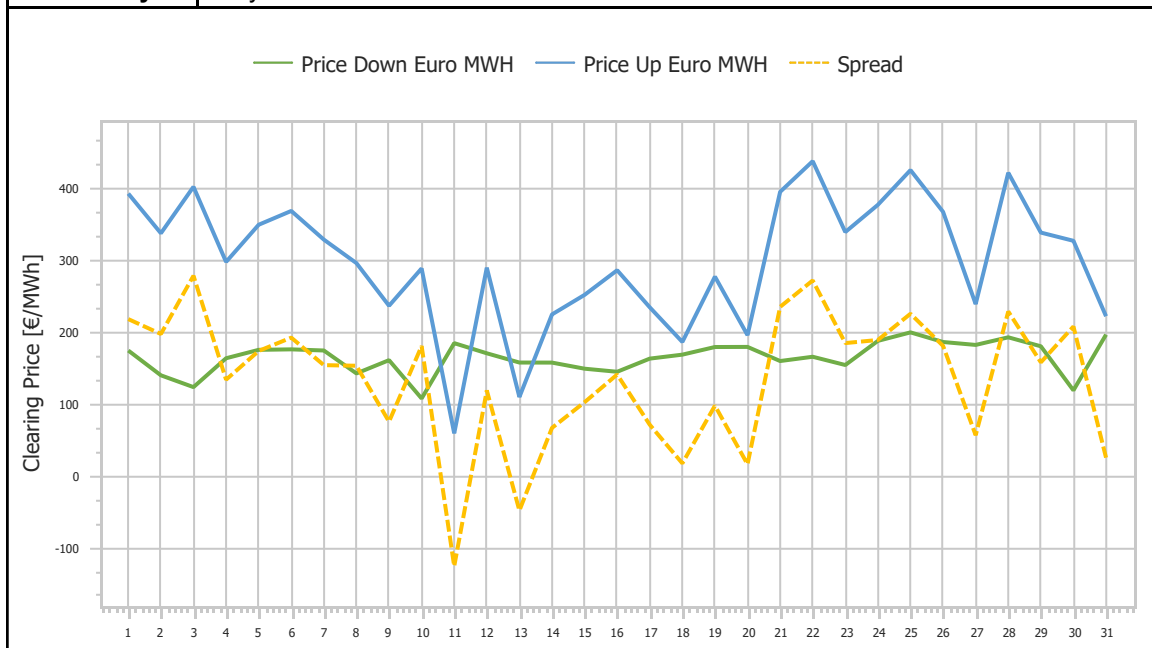
3. Integrated Scheduling Process (ISP)



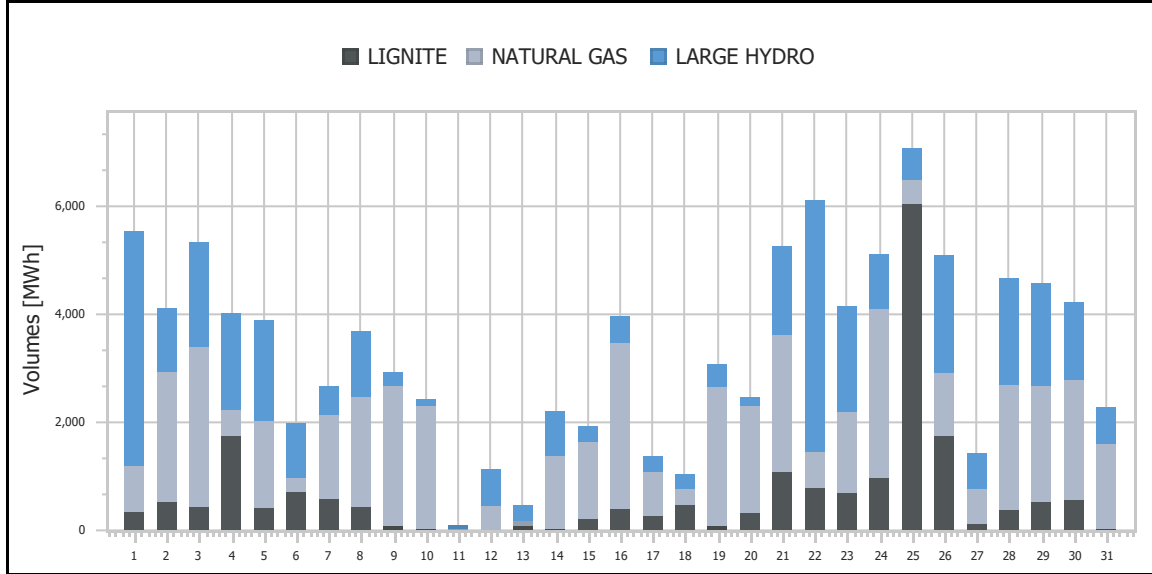
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Title	Demand & System Losses
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



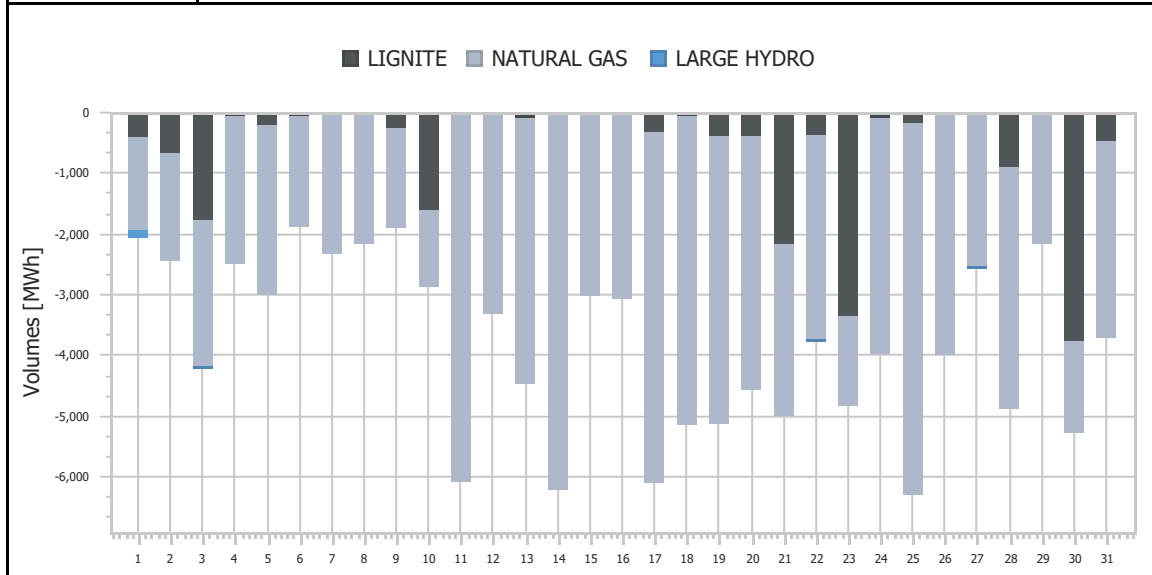
Ref No	Graph 3.4
Title	Clearing Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



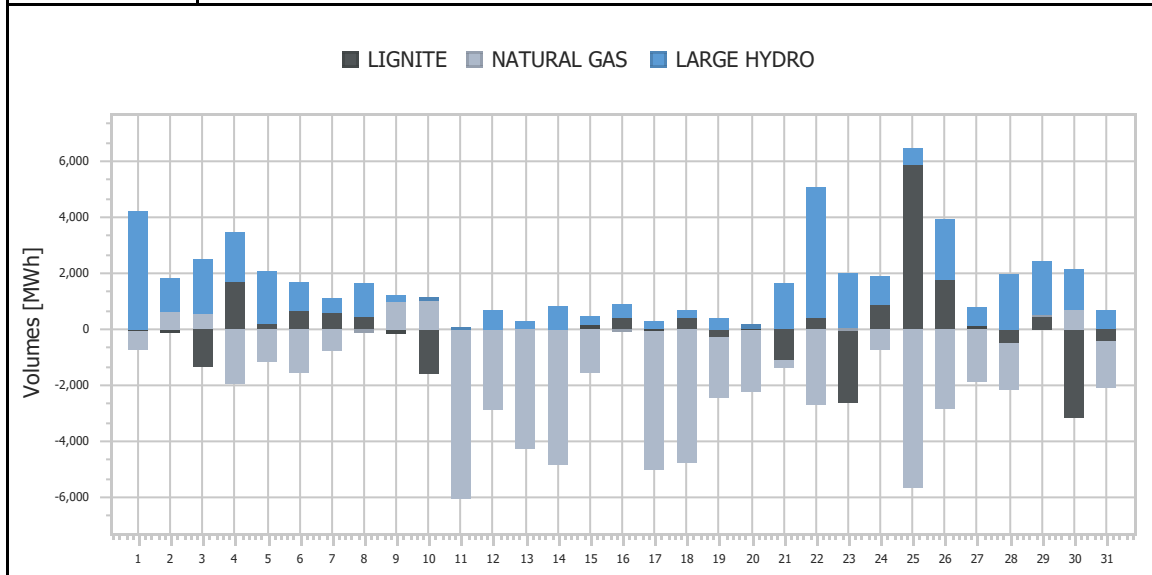
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Title	Upward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



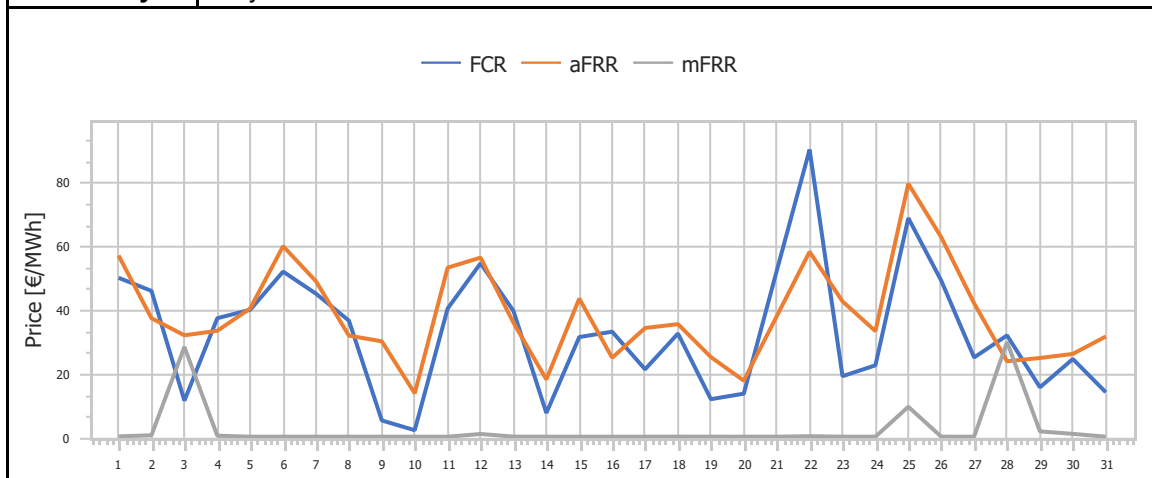
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Title	Downward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



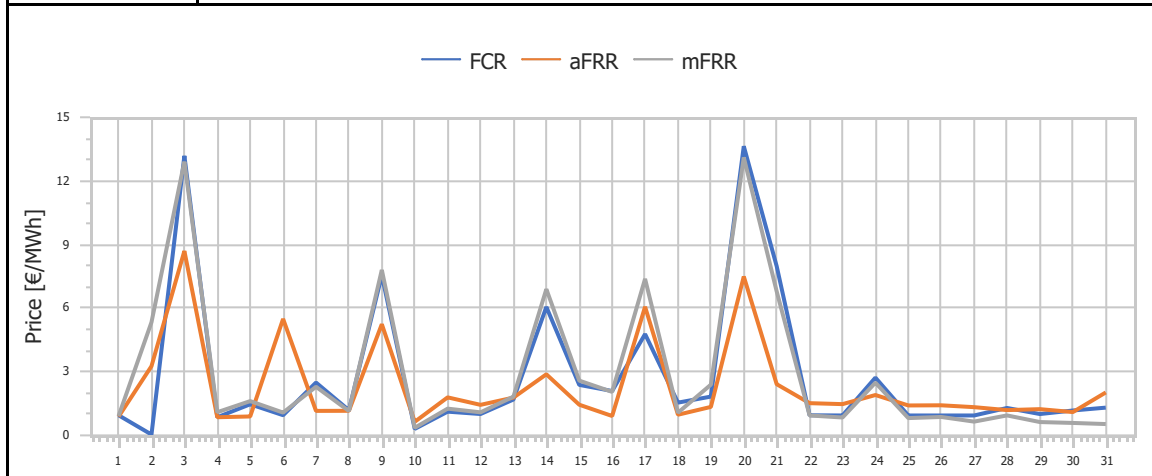
Ref No	Graph 3.7
Title	Net Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



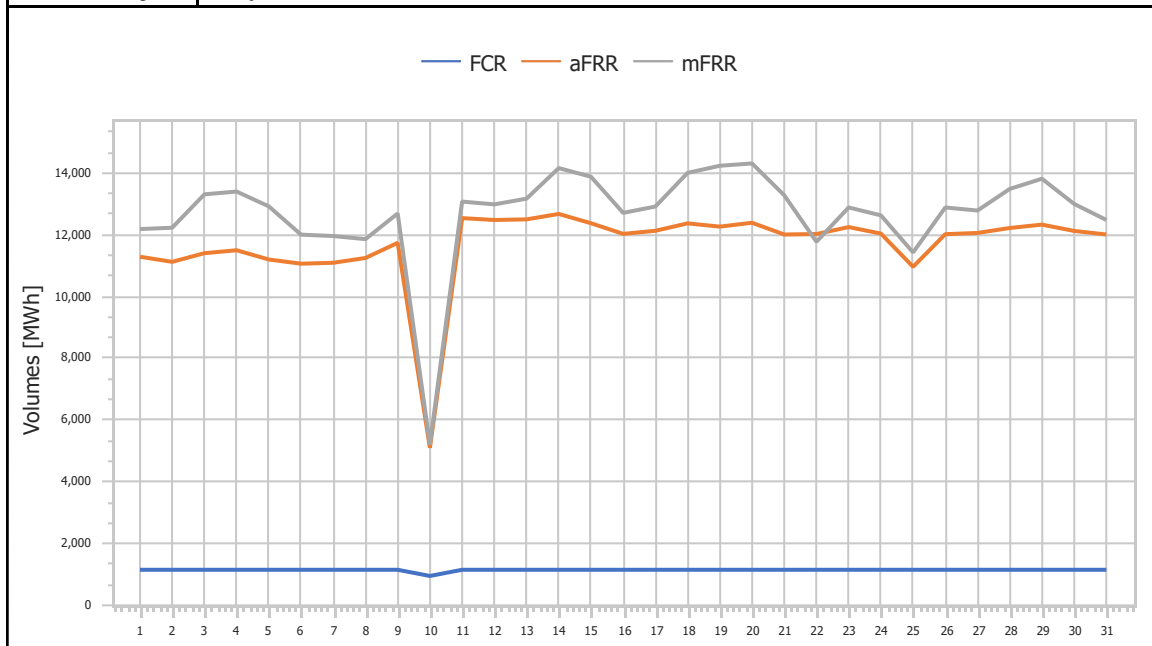
Ref No	Graph 3.8
Title	Upward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily

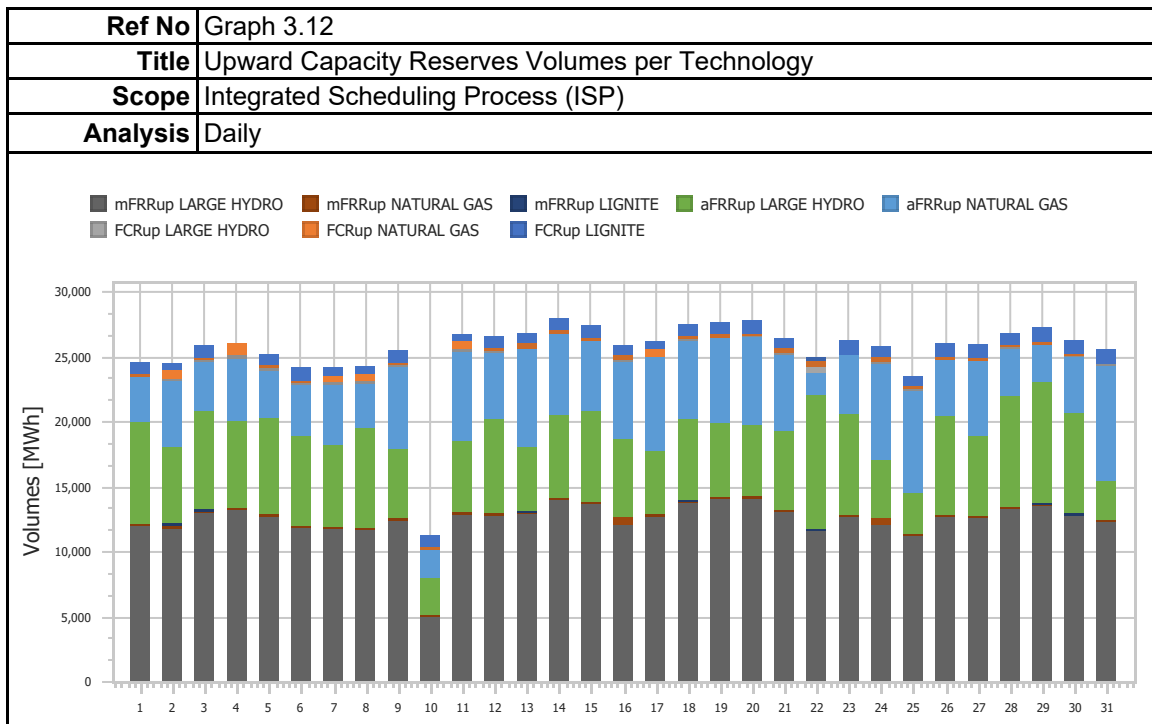
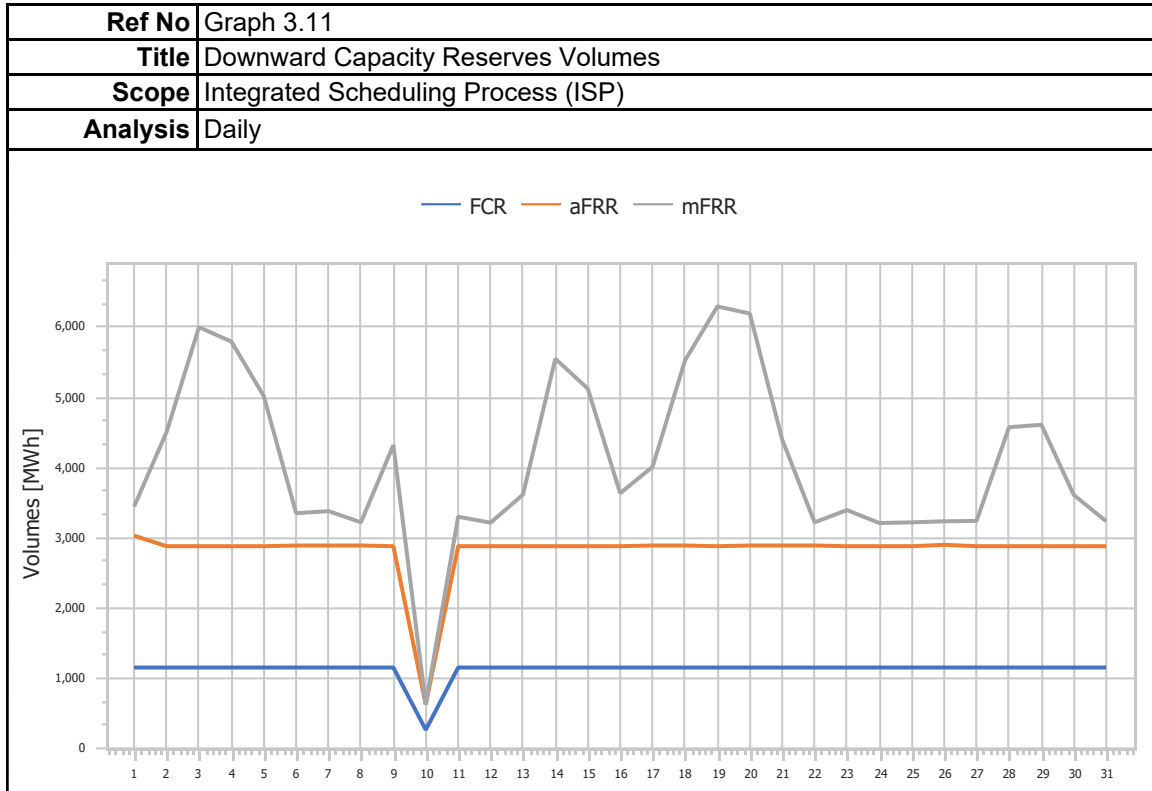


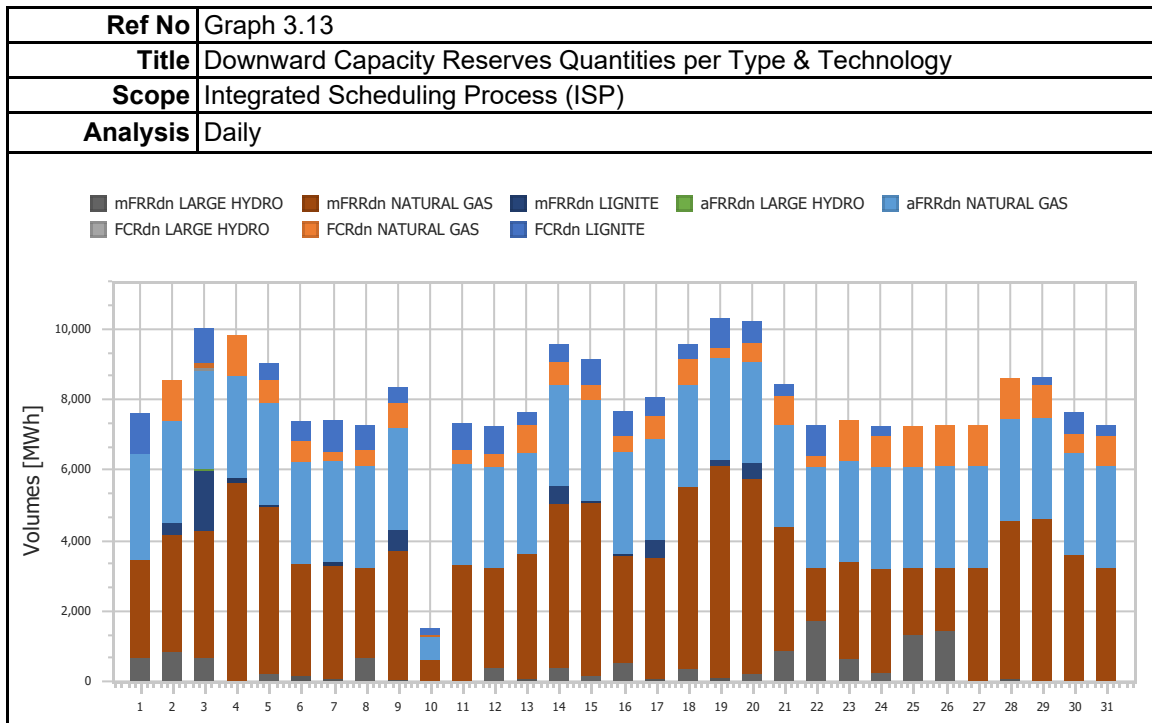
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Title	Downward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



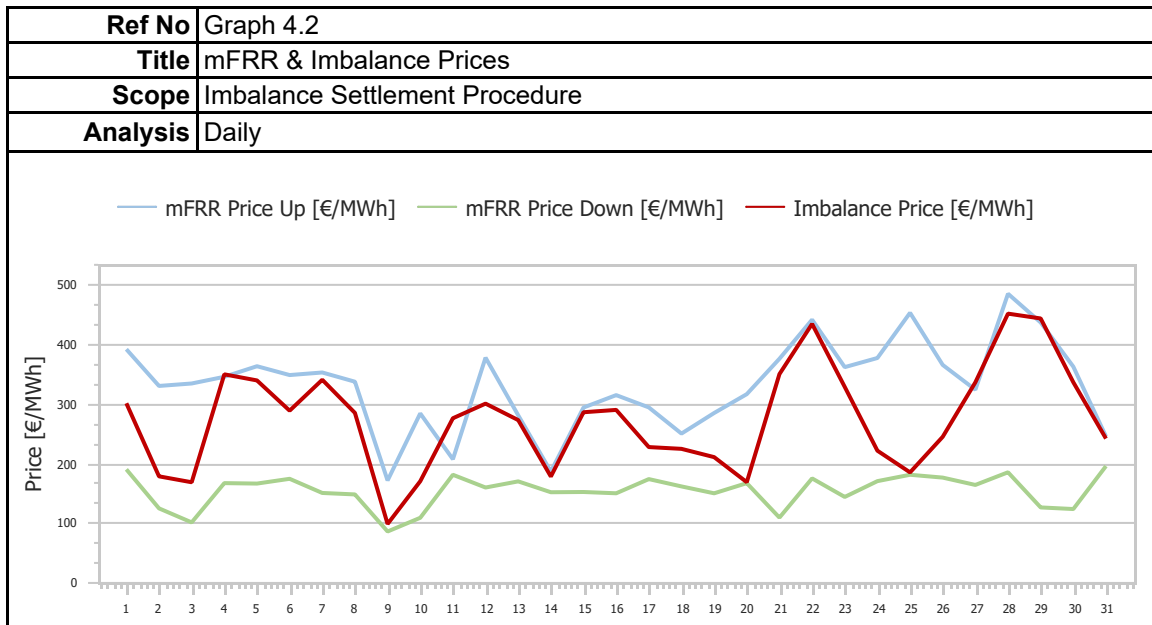
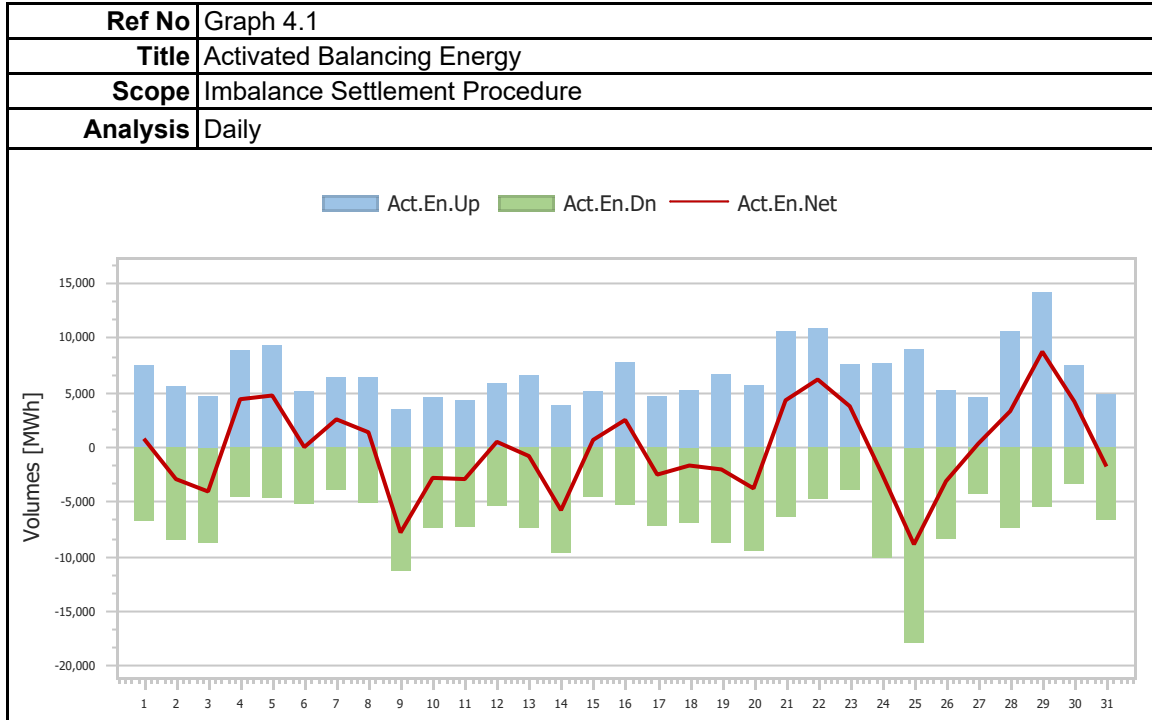
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Title	Upward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



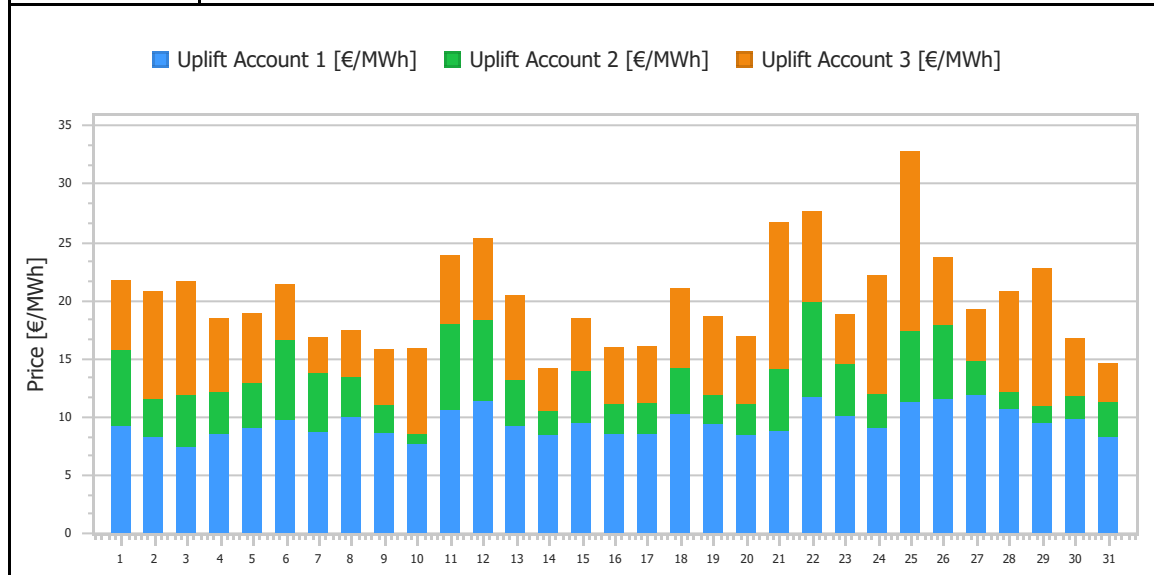




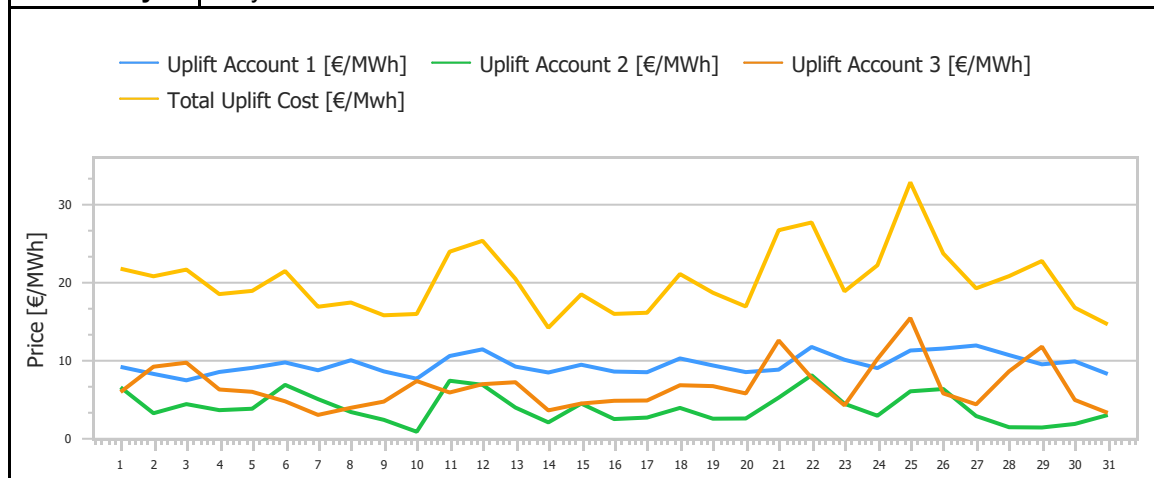
4. Imbalance Settlement Procedure



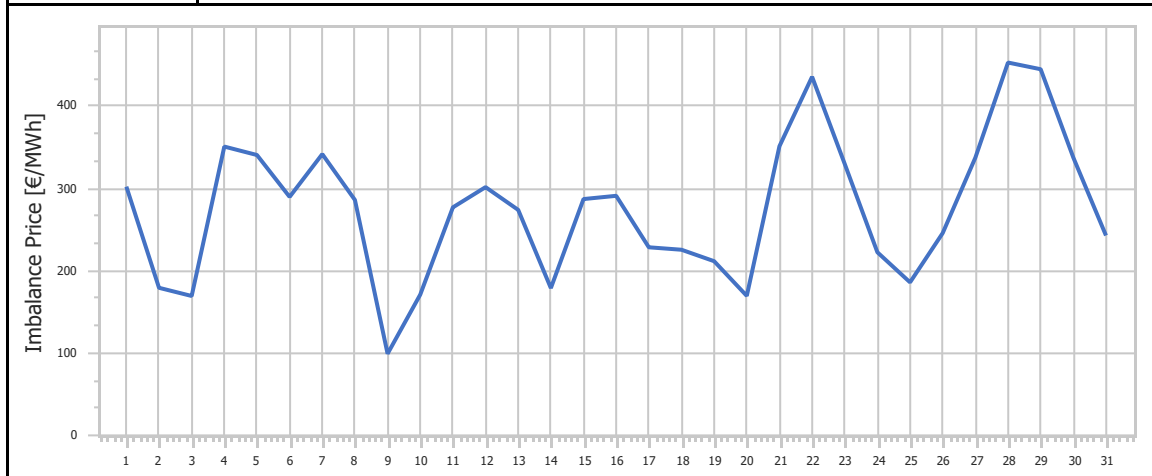
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



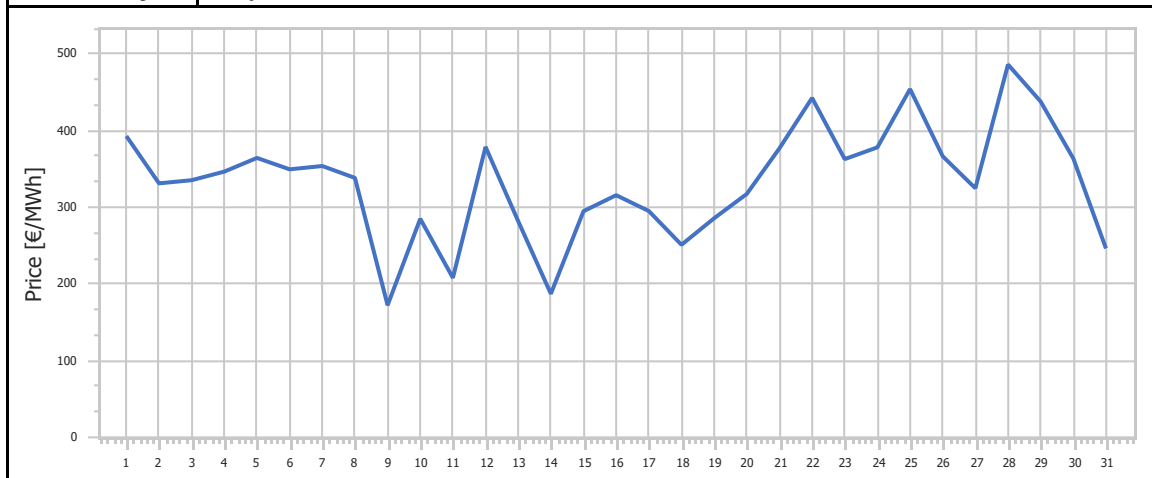
Ref No	Graph 4.4
Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



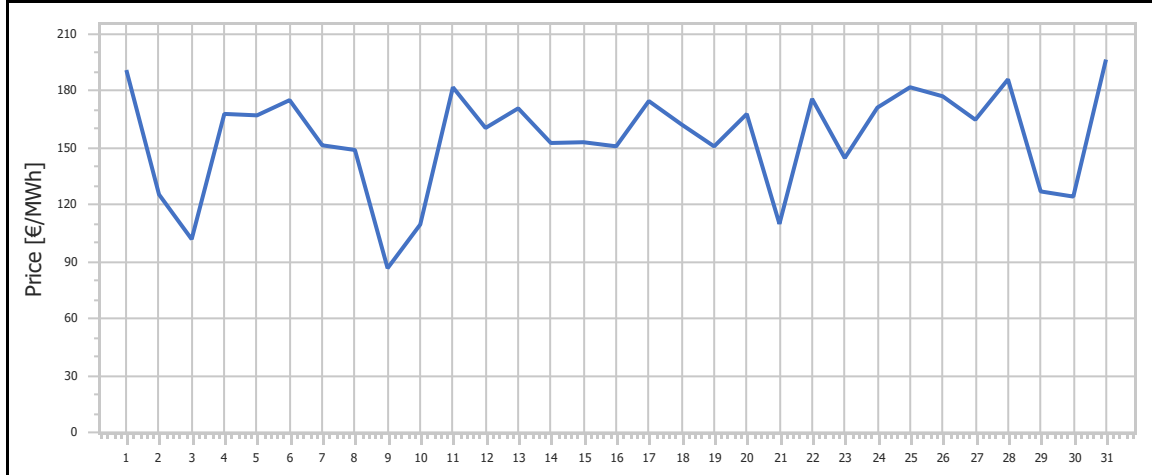
Ref No	Graph 4.5
Title	Imbalance Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



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



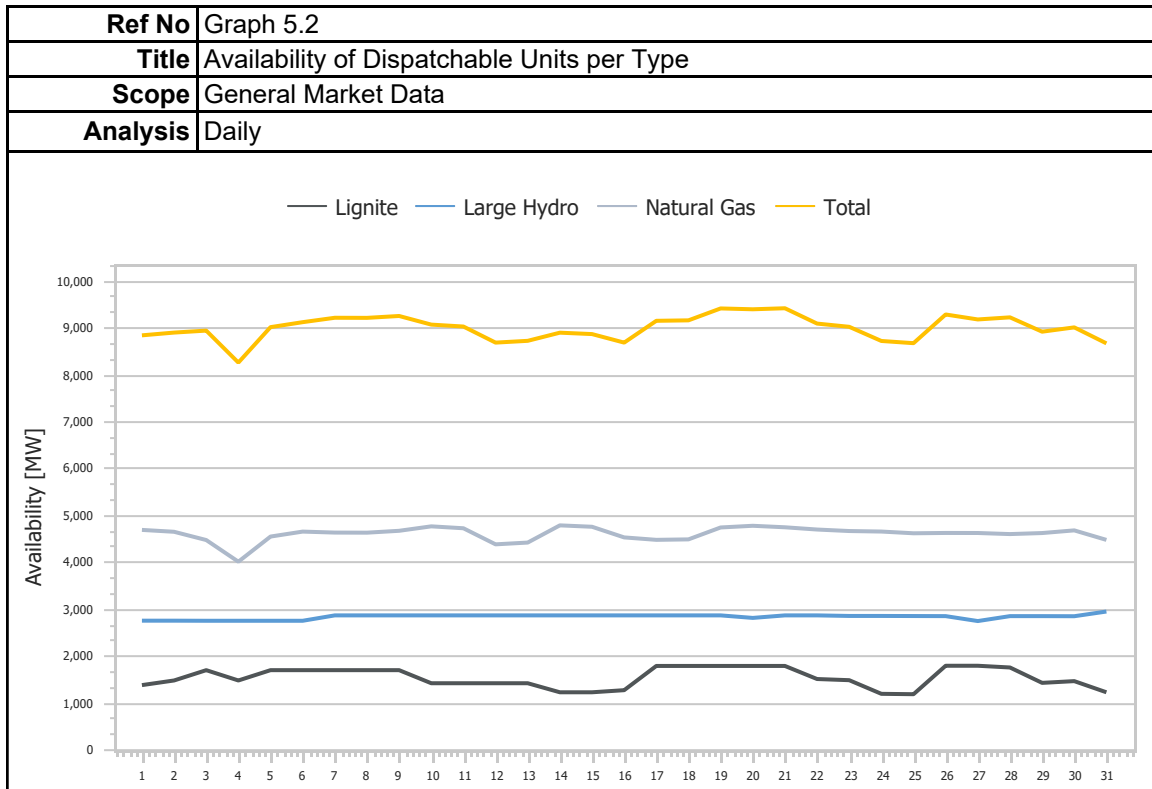
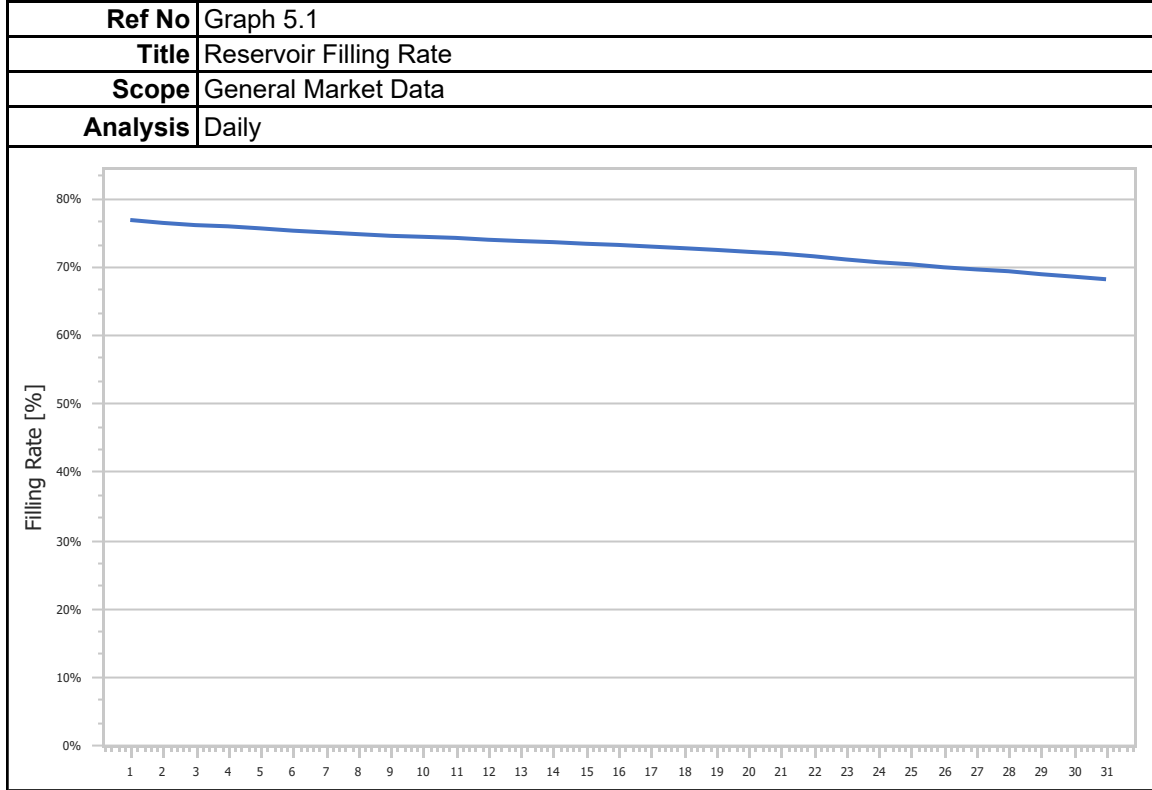
Ref No	Graph 4.7
Title	mFRR Down Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



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	781,355.829	13.05%	273,037,256.04€	13.39%
Crete Conventional	211,533.950	3.53%	73,142,937.77€	3.59%
Natural Gas	2,344,833.248	39.16%	825,241,400.89€	40.46%
Large Hydro	353,746.908	5.91%	139,601,710.06€	6.84%
RES	1,818,342.486	30.36%	565,449,743.98€	27.72%
Crete Renewables	111,387.000	1.86%	36,765,748.63€	1.80%
Imports	367,142.170	6.13%	126,562,466.79€	6.20%
Total	5,988,341.589	100.00%	2,039,801,264.17€	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	-	5,988,341.59	781,355.83	211,533.95	2,344,833.25	353,746.91	1,818,342.49	111,387.00	367,142.17
Average	338.14	193,172.31	25,205.03	6,823.68	75,639.78	11,411.19	58,656.21	3,593.13	11,843.30
Min	242.19	147,452.64	15,452.97	5,471.00	26,407.72	8,630.00	34,340.18	1,680.00	3,342.70
Min day	10	10	13	17	10	13	8	9	20
Max	473.93	218,107.33	38,904.00	8,933.60	95,345.82	19,150.39	92,837.88	4,119.00	27,569.30
Max day	27	28	27	28	6	25	3	18	10
Spread	231.74	70,654.69	23,451.03	3,462.60	68,938.10	10,520.39	58,497.70	2,439.00	24,226.60
Standard Deviation	58.09	15,262.50	6,808.72	766.22	16,063.81	1,817.07	15,401.63	595.42	6,889.74

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	131,834.000	2.20%	44,557,513.38€	2.18%
Crete Load	341,425.000	5.70%	116,712,892.63€	5.72%
HV Load	650,457.598	10.86%	217,864,127.09€	10.68%
MV Load	991,908.957	16.56%	336,491,658.51€	16.50%
LV Load	3,009,492.283	50.26%	1,040,449,192.31€	51.01%
PUMP	9,343.592	0.16%	2,147,430.42€	0.11%
Exports	853,865.560	14.26%	281,575,846.48€	13.80%
Total	5,988,326.995	100.00%	2,039,798,660.83€	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	-	5,988,327.00	131,834.00	341,425.00	650,457.60	991,908.96	3,009,492.28	9,343.59	853,865.56
Average	338.14	193,171.84	4,252.71	11,013.71	20,982.50	31,997.06	97,080.40	373.74	27,544.05
Min	242.19	147,452.63	3,320.50	9,592.00	19,752.78	22,554.68	73,455.80	7.08	15,524.60
Min day	10	10	11	17	26	10	10	22	25
Max	473.93	218,107.46	5,362.00	13,000.00	22,660.92	38,699.43	116,892.44	1,315.58	40,172.50
Max day	27	28	29	27	16	7	25	28	4
Spread	231.74	70,654.83	2,041.50	3,408.00	2,908.14	16,144.75	43,436.64	1,308.50	24,647.90
Standard Deviation	58.09	15,262.31	480.29	768.23	747.82	4,232.71	10,706.84	273.35	6,025.64

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	1,164,492.650	67.87%	15,379,464.56€	88.85%
FCR	112,307.480	6.55%	1,719,018.93€	9.93%
mFRR	438,973.730	25.58%	211,285.30€	1.22%
Total	1,715,773.860	100.00%	17,309,768.79€	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	287,838.950	35.02%	262,394.98€	28.61%
FCR	114,732.760	13.96%	143,730.82€	15.67%
mFRR	419,338.300	51.02%	511,020.24€	55.72%
Total	821,910.000	100.00%	917,146.04€	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	87,772.950	41.52%	27,370,838.30€	34.96%
mFRR	123,651.520	58.48%	50,912,503.15€	65.04%
Total	211,424.460	100.00%	78,283,341.45€	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	50,133.560	23.29%	5,876,967.11€	19.46%
mFRR	165,150.690	76.71%	24,328,828.43€	80.54%
Total	215,284.250	100.00%	30,205,795.54€	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	5,988,341.59	96.24%
IDMA1	162,940.92	2.62%
IDMA2	45,893.13	0.74%
IDMA3	29,003.30	0.47%
IDM (Total)	237,837.34	3.82%
Balancing Energy (Up)	211,424.46	3.40%
Balancing Energy (Dn)	215,284.25	3.46%
Balancing Energy (Total)	-3,859.79	-0.06%
Total	6,222,319.15	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	2,039,801,264.17€	93.18%
IDMA1	57,198,845.97€	2.61%
IDMA2	15,236,928.48€	0.70%
IDMA3	10,482,414.34€	0.48%
IDM (Total)	82,918,188.79€	3.79%
Balancing Capacity (Up)	17,309,768.79€	0.79%
Balancing Capacity (Dn)	917,146.04€	0.04%
Balancing Capacity (Total)	18,226,914.83€	0.83%
Balancing Energy (Up)	78,283,341.45€	3.58%
Balancing Energy (Dn)	30,205,795.54€	1.38%
Balancing Energy (Total)	48,077,545.91€	2.20%
Balancing Market (Total)	66,304,460.74€	3.03%
Total	2,189,023,913.70€	100.00%