

Market Monitoring Report

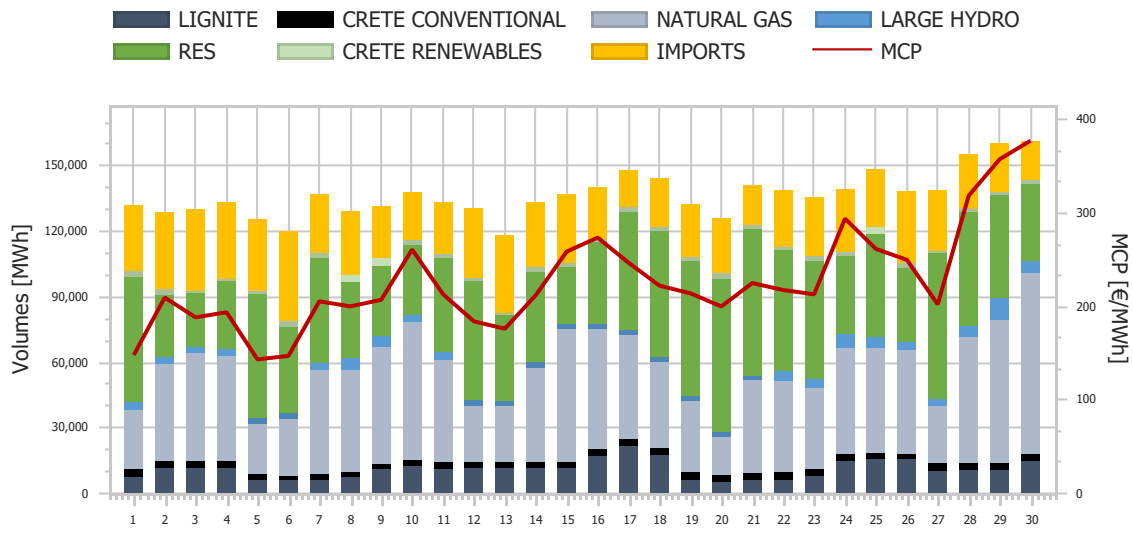
Monthly - Public - 2

11-2022

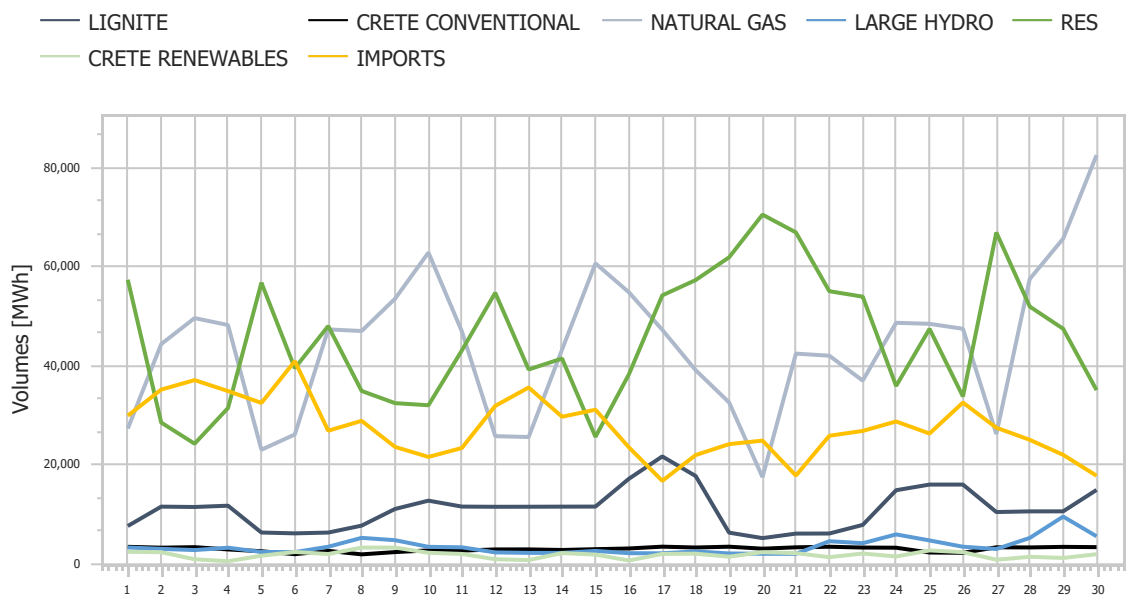


1. Day Ahead Market (DAM)

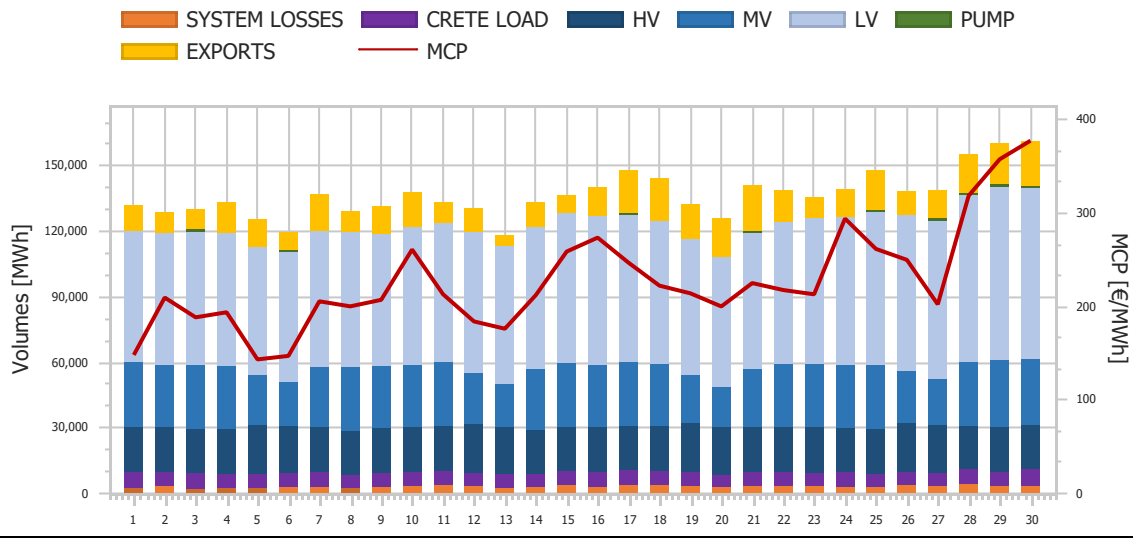
Ref No	Graph 1.1
Title	Energy Mix & MCP - SELL
Scope	Day Ahead Market (DAM)
Analysis	Daily



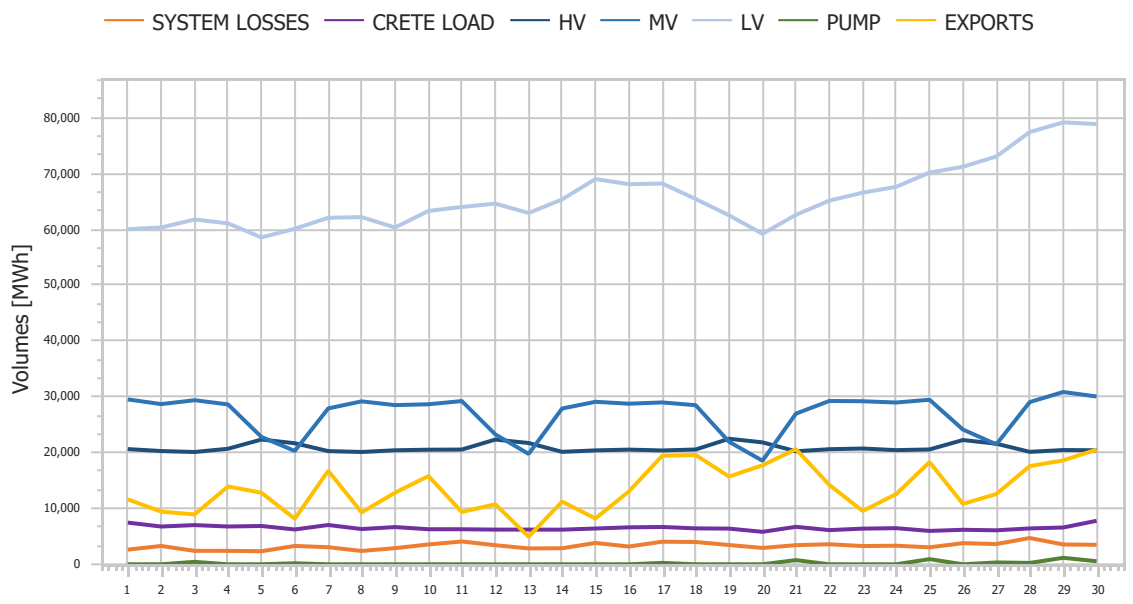
Ref No	Graph 1.2
Title	Energy Mix - SELL
Scope	Day Ahead Market (DAM)
Analysis	Daily



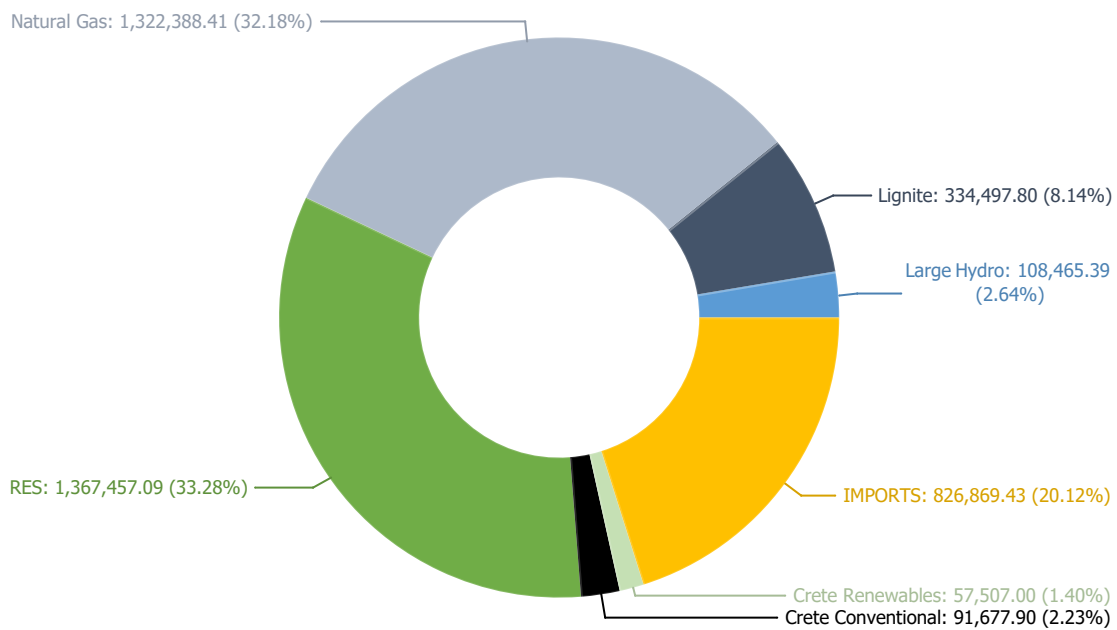
Ref No	Graph 1.3
Title	Energy Mix & MCP - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily



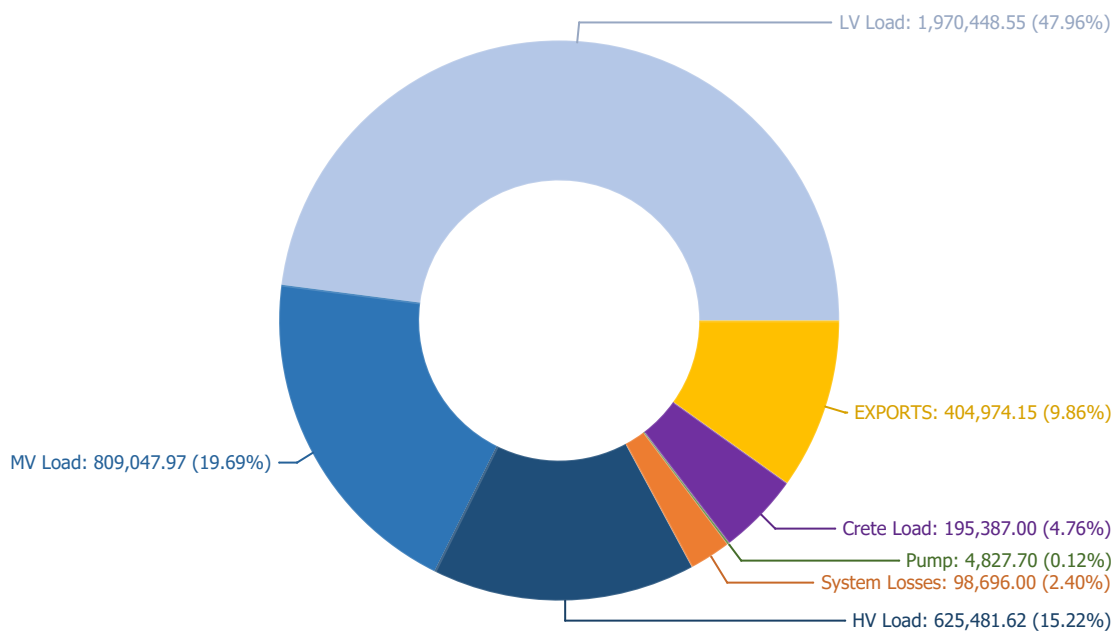
Ref No	Graph 1.4
Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily



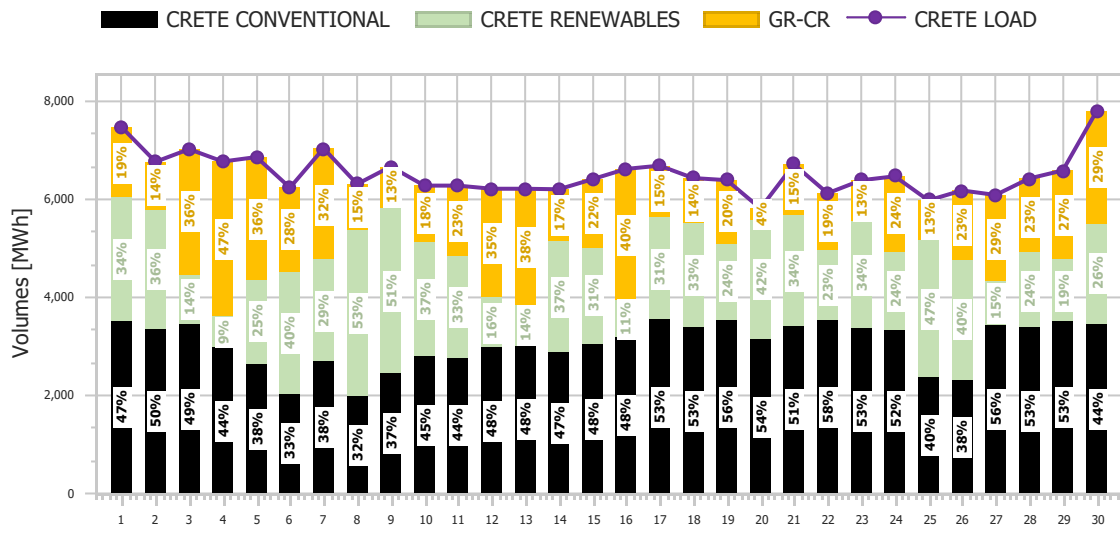
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Title	Energy Mix - SELL
Scope	Day Ahead Market (DAM)
Analysis	Daily



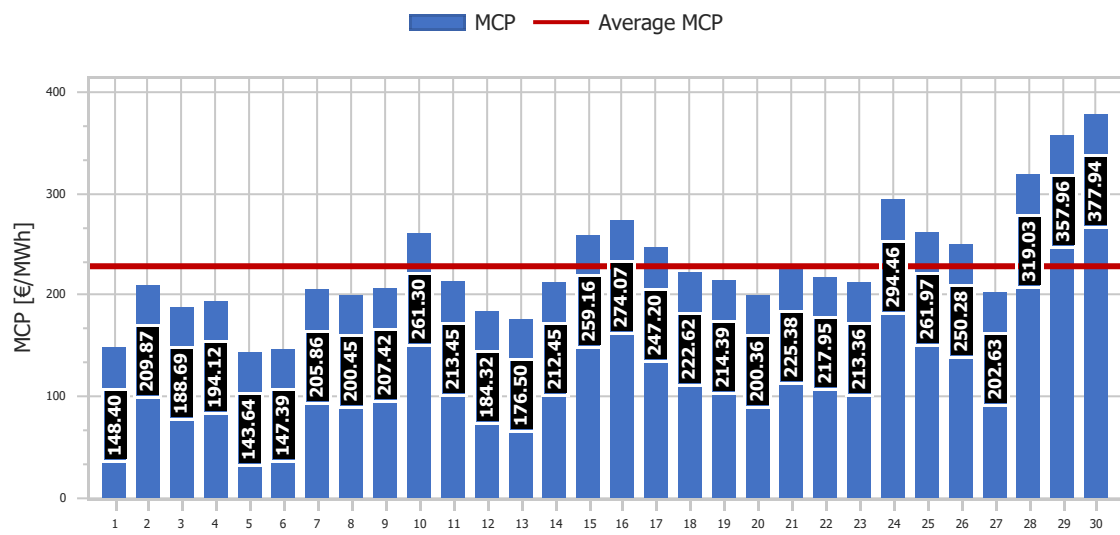
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Title	Energy Mix - BUY
Scope	Day Ahead Market (DAM)
Analysis	Daily



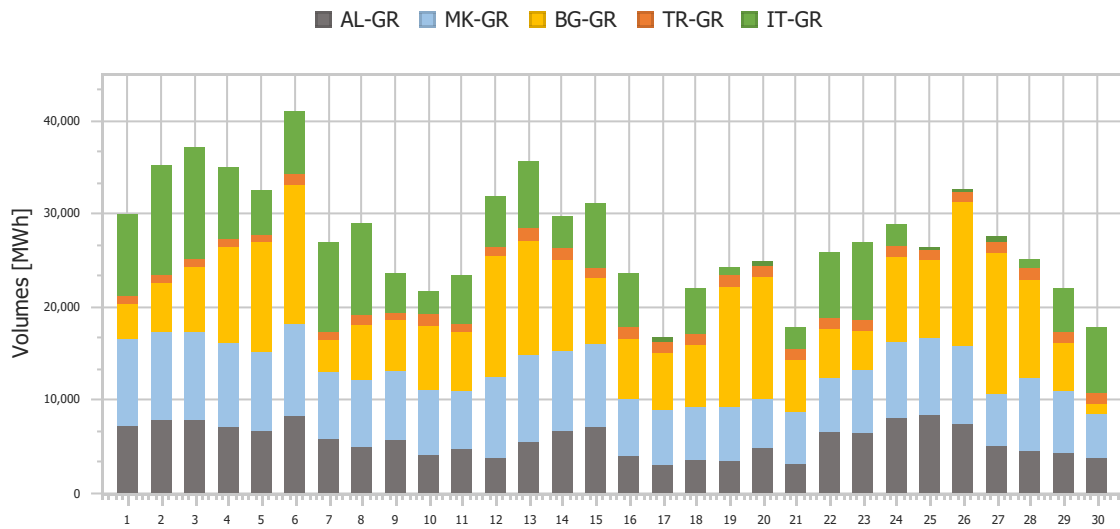
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Title	Crete Energy Mix
Scope	Day Ahead Market (DAM)
Analysis	Daily



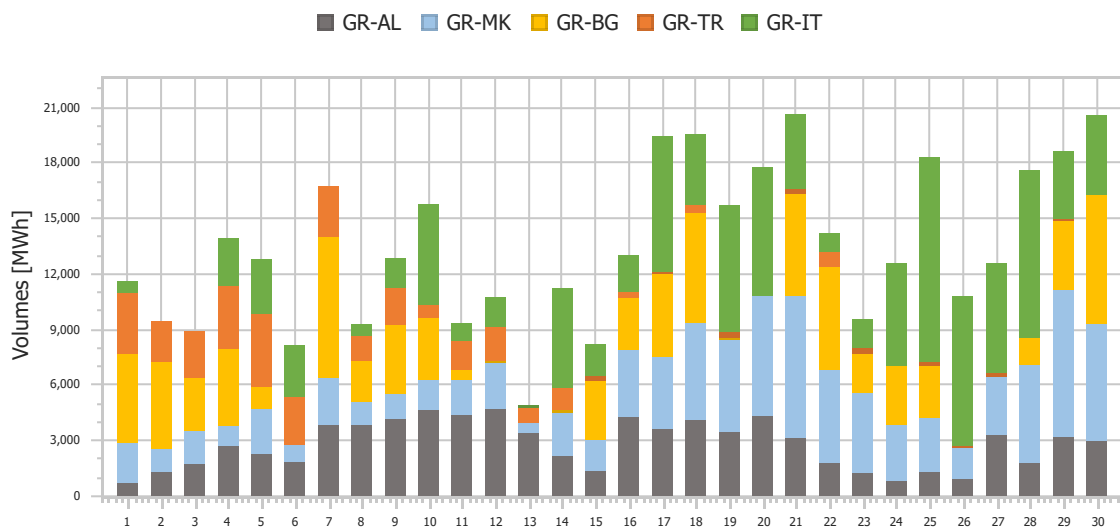
Ref No	Graph 1.8
Title	Market Clearing Price (MCP)
Scope	Day Ahead Market (DAM)
Analysis	Daily



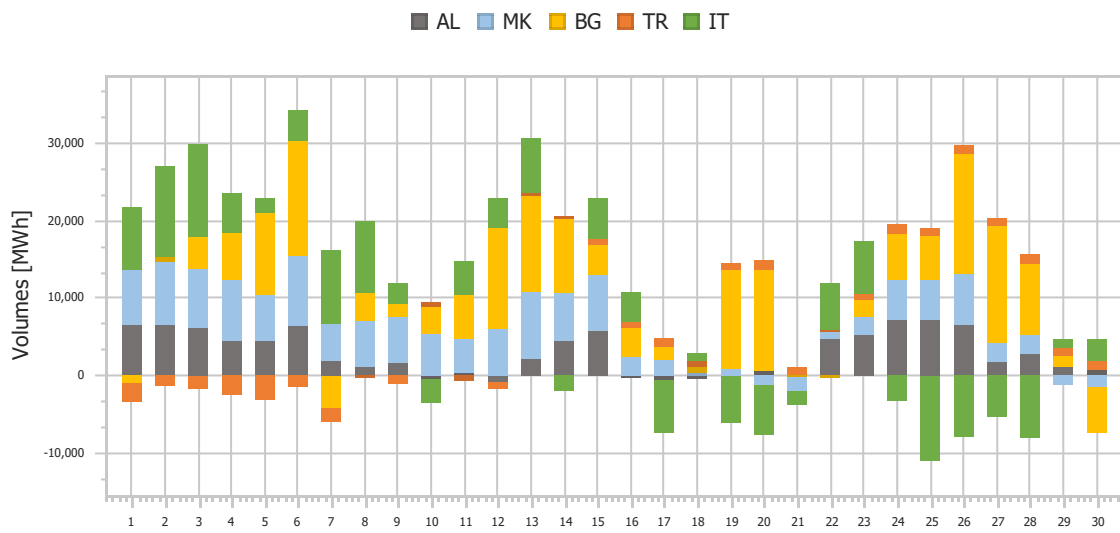
Ref No	Graph 1.9
Title	Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



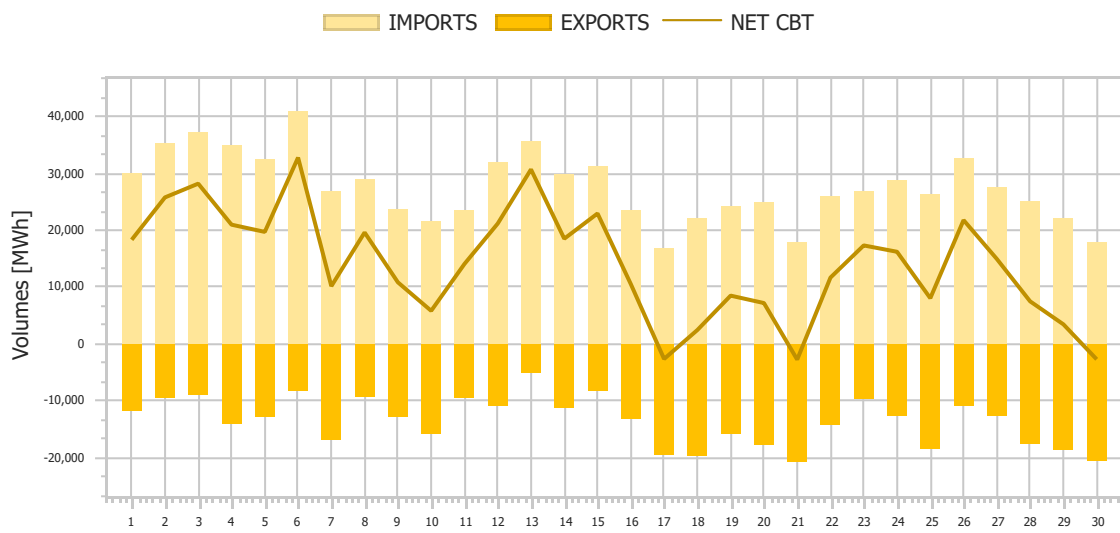
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Title	Exports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



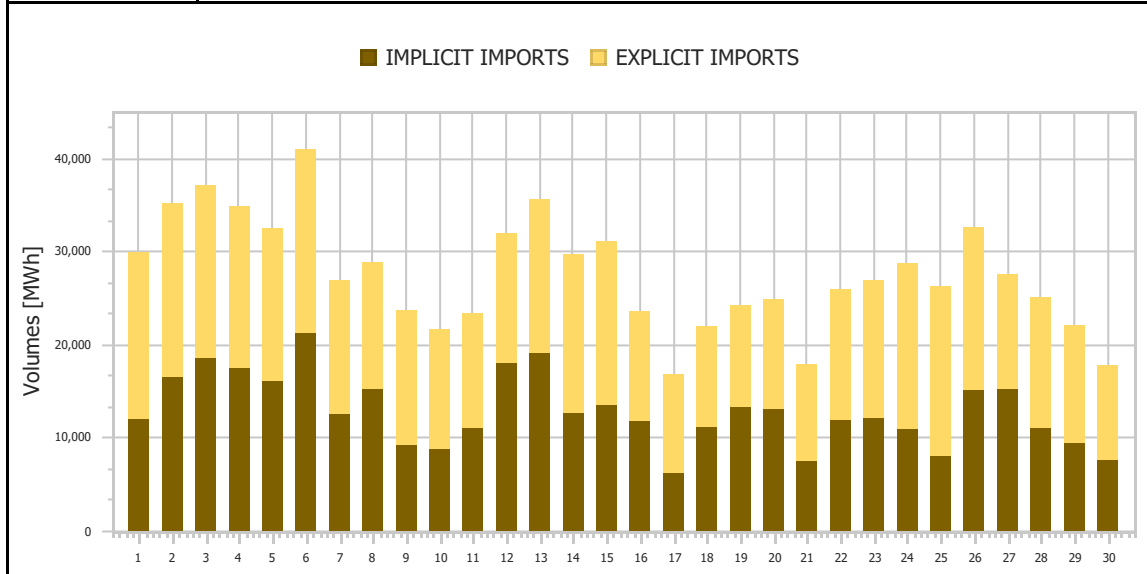
Ref No	Graph 1.11
Title	Net Imports per Border
Scope	Day Ahead Market (DAM)
Analysis	Daily



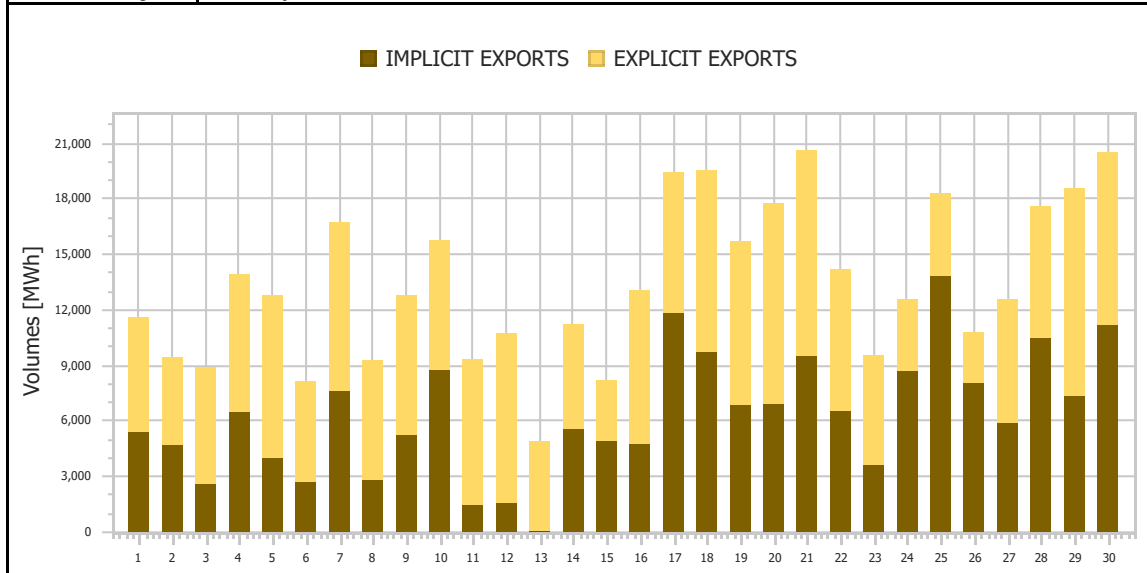
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Title	Total Imports & Exports
Scope	Day Ahead Market (DAM)
Analysis	Daily



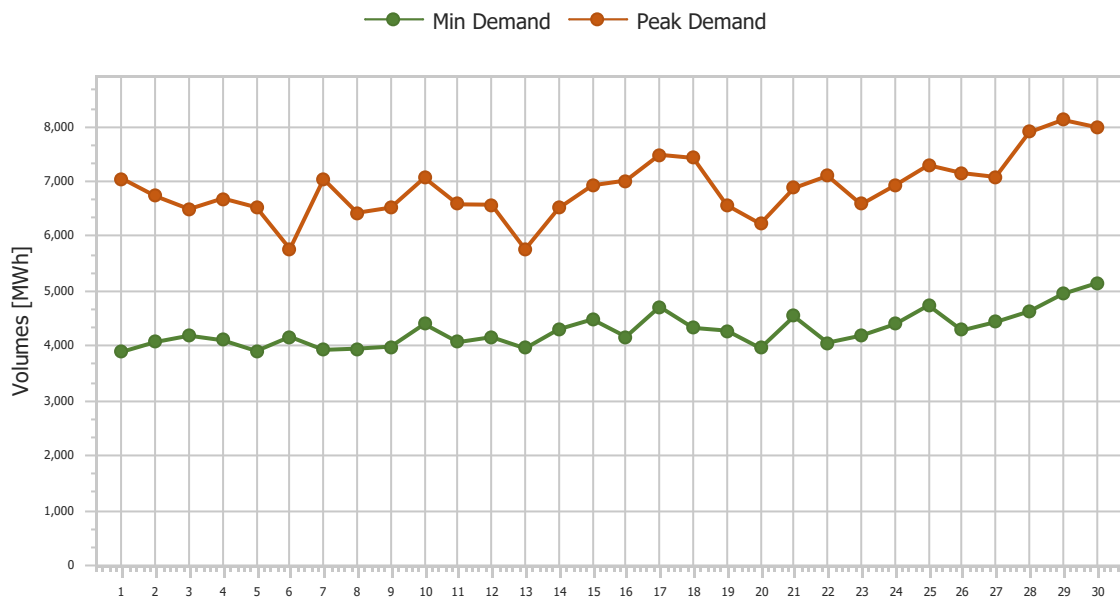
Ref No	Graph 1.13
Title	Imports (Implicit/Explicit)
Scope	Day Ahead Market (DAM)
Analysis	Daily



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

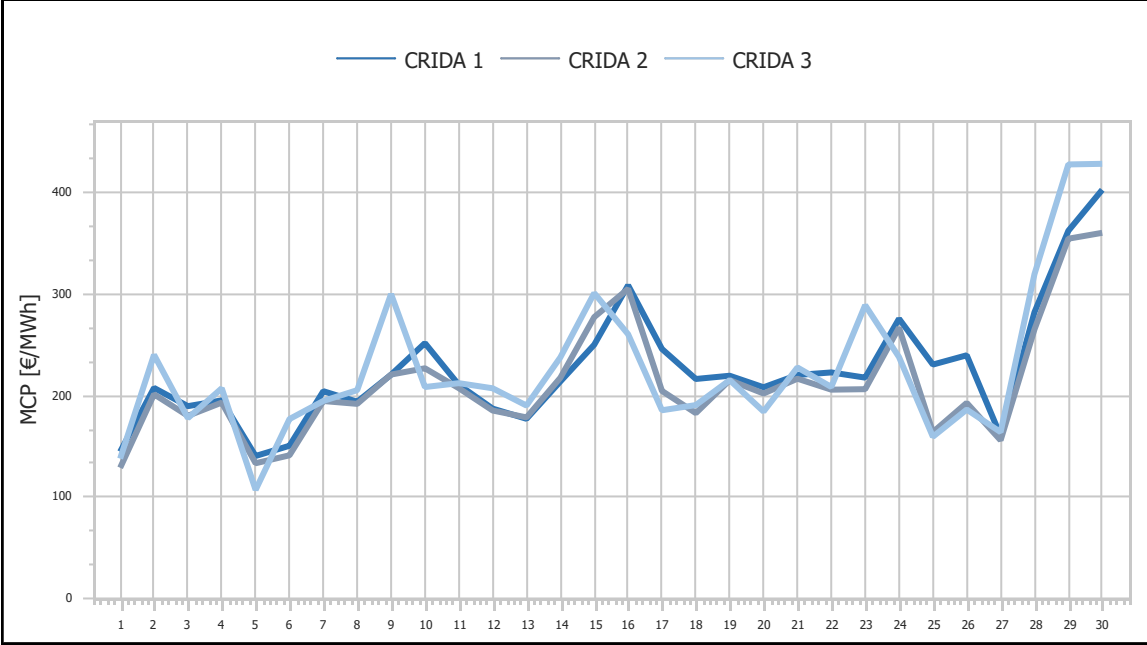


Ref No	Graph 1.15
Title	Min & Peak Demand
Scope	Day Ahead Market (DAM)
Analysis	Daily

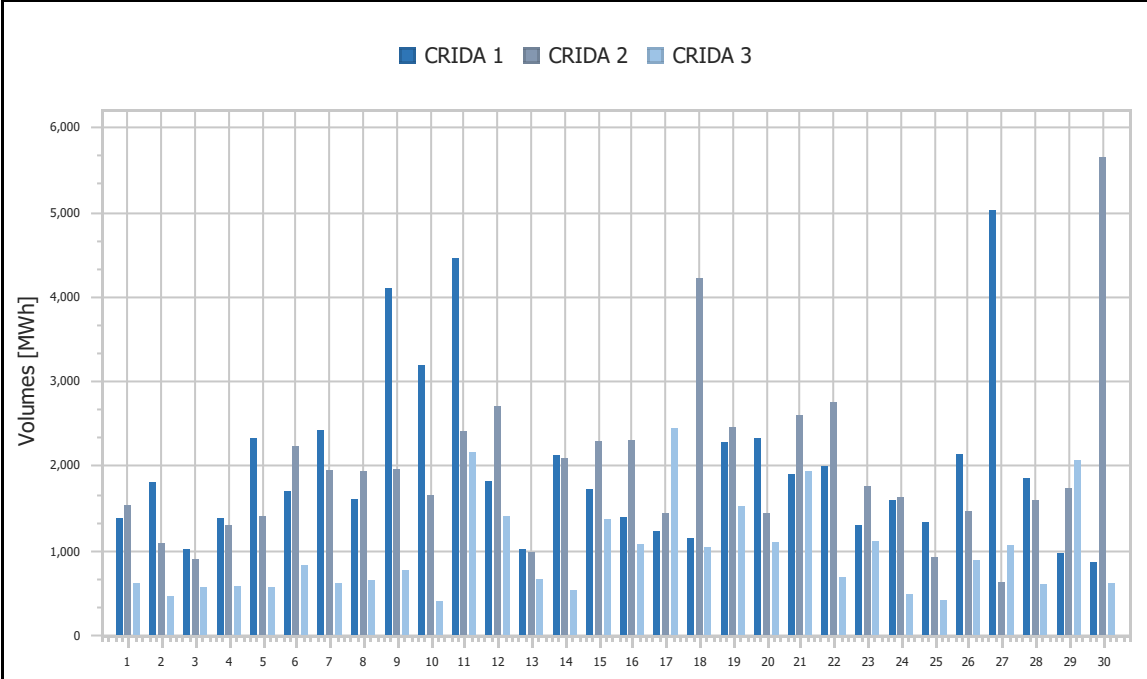


2. Intra-Day Market (IDM)

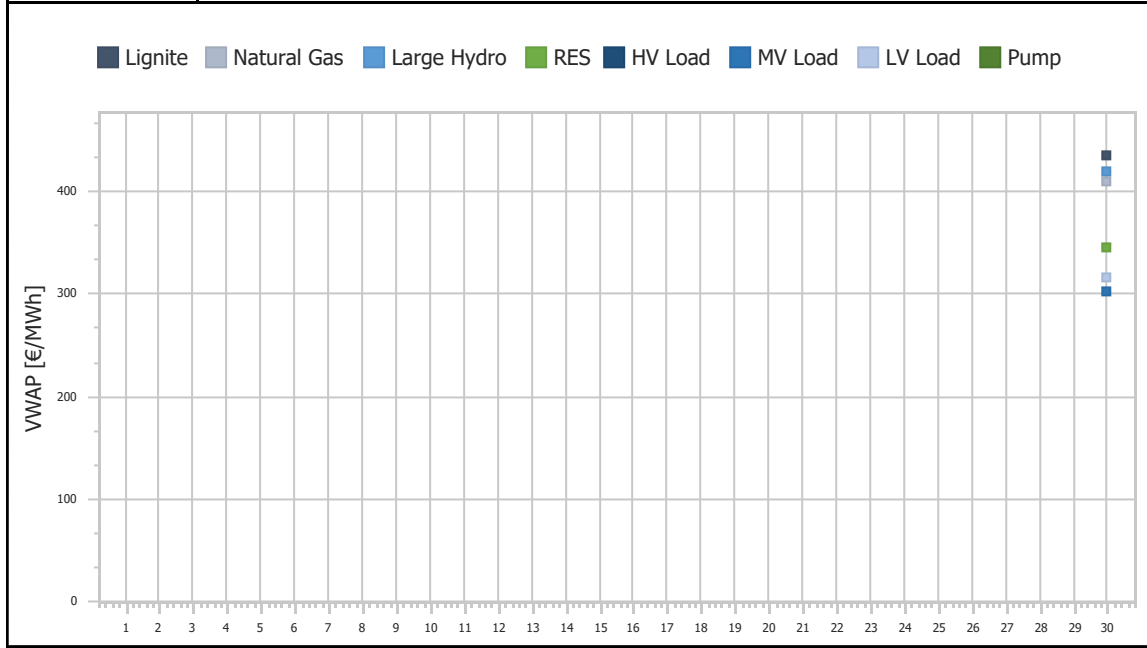
Ref No	Graph 2.1
Title	Market Clearing Price (MCP)
Scope	Complementary Regional Intraday Auctions
Analysis	Daily



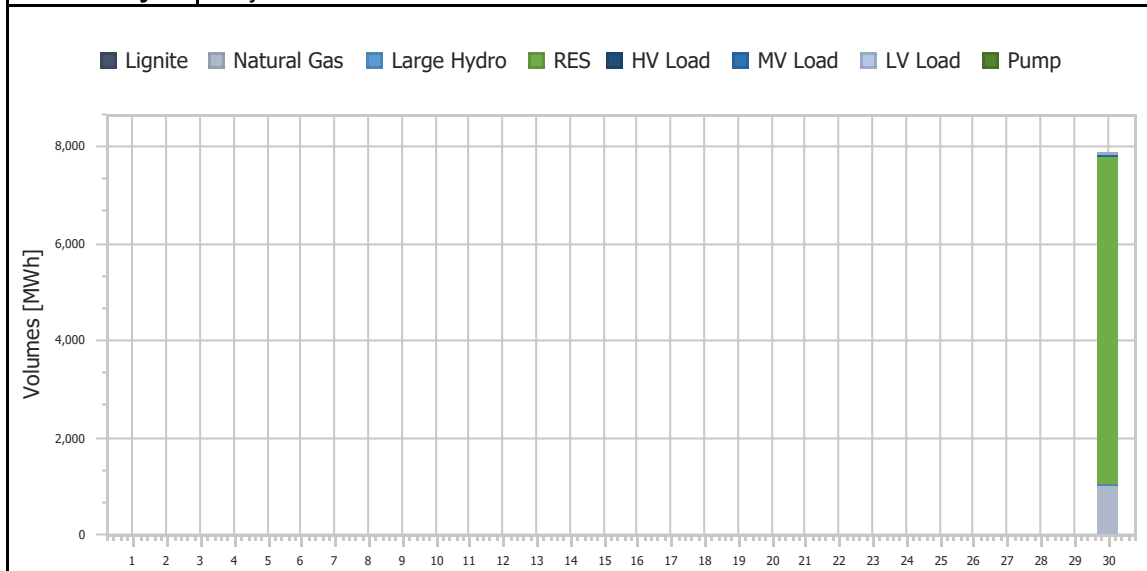
Ref No	Graph 2.2
Title	Transactions Volume
Scope	Complementary Regional Intraday Auctions
Analysis	Daily



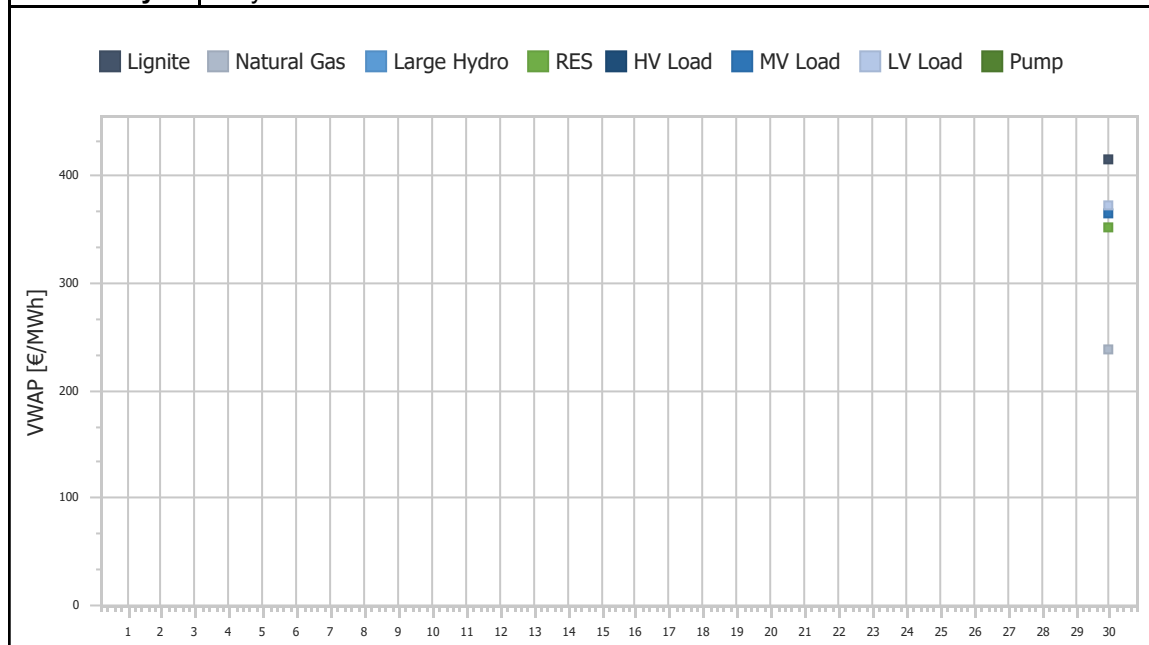
Ref No	Graph 2.3.1
Title	Volume-Weighted Average Price (VWAP) - SELL Side
Scope	Continuous Intra-Day Trading (XBID) - excl. CBT
Analysis	Daily



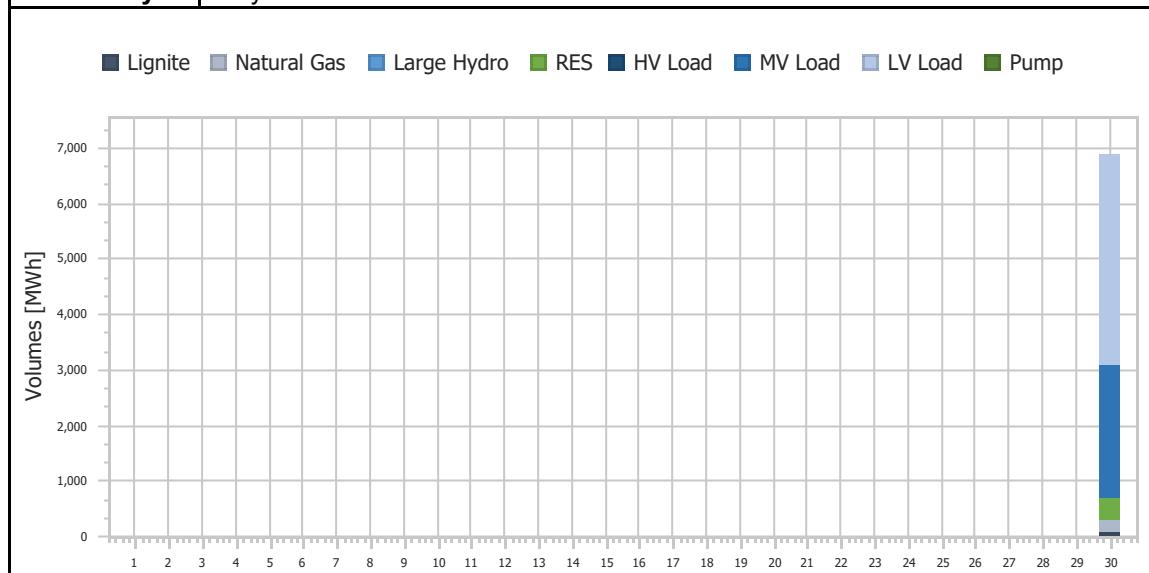
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Title	Transactions Volume - SELL Side
Scope	Continuous Intra-Day Trading (XBID) - excl. CBT
Analysis	Daily



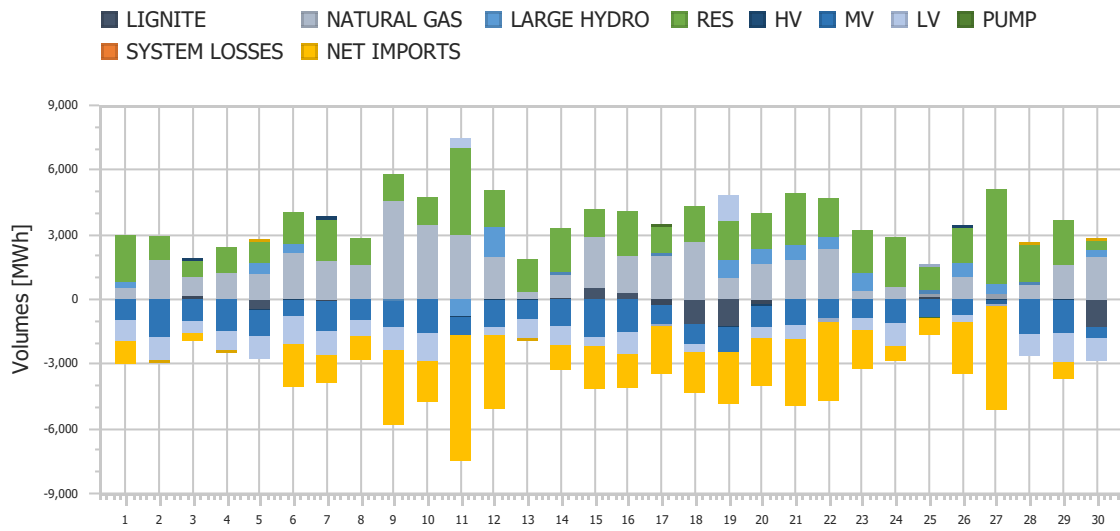
Ref No	Graph 2.3.3
Title	Volume-Weighted Average Price (VWAP) - BUY Side
Scope	Continuous Intra-Day Trading (XBID) - excl. CBT
Analysis	Daily



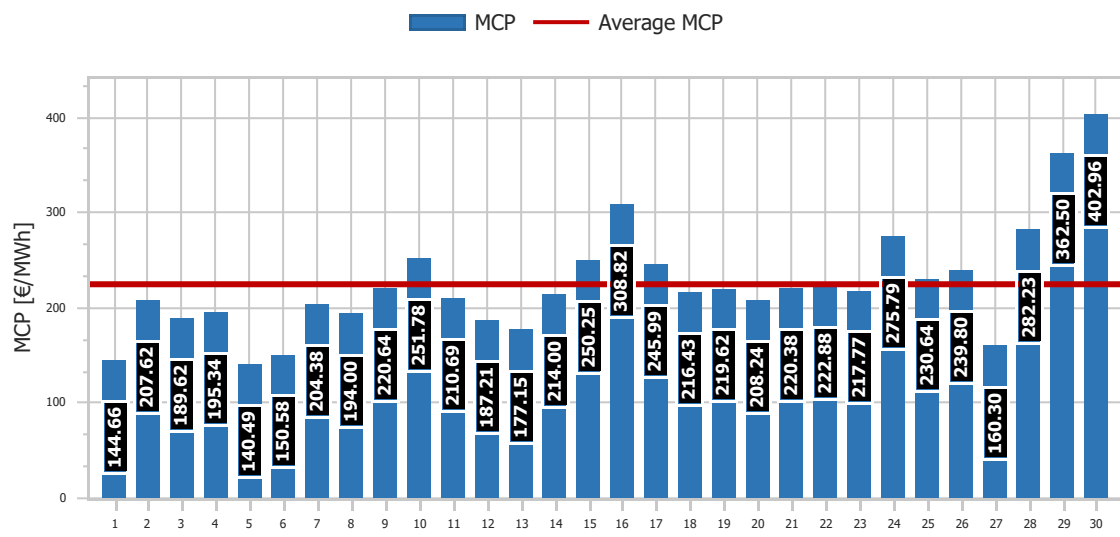
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Title	Transactions Volume - BUY Side
Scope	Continuous Intra-Day Trading (XBID) - excl. CBT
Analysis	Daily



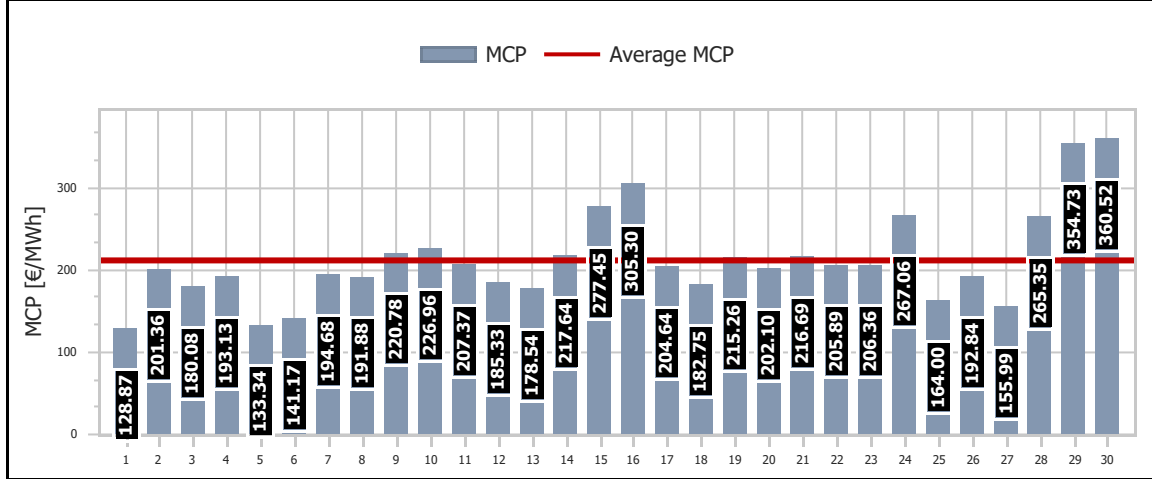
Ref No	Graph 2.4
Title	Energy Mix changes
Scope	Complementary Regional Intraday Auctions
Analysis	Daily



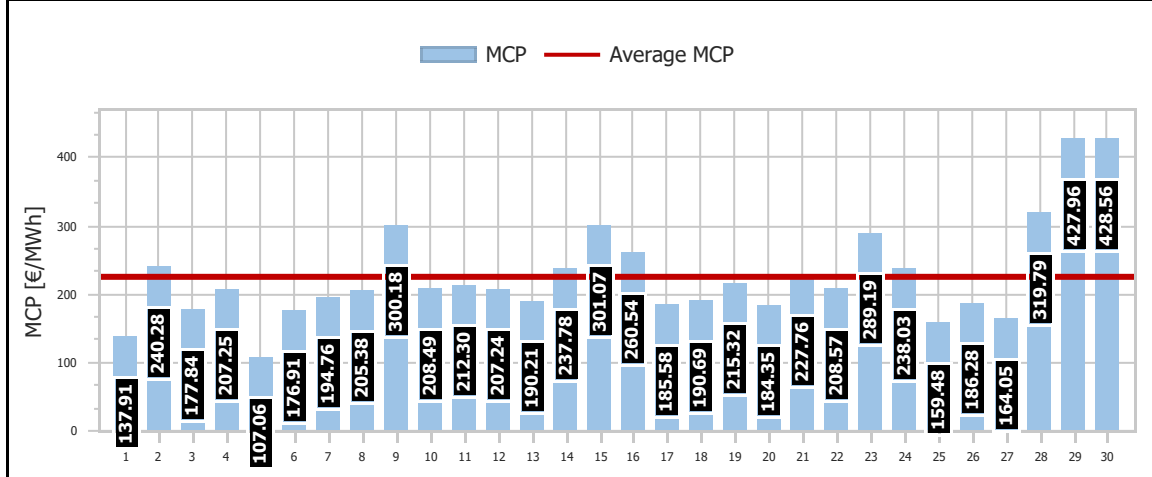
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Title	CRIDA1 - Market Clearing Price
Scope	Complementary Regional Intraday Auctions
Analysis	Daily



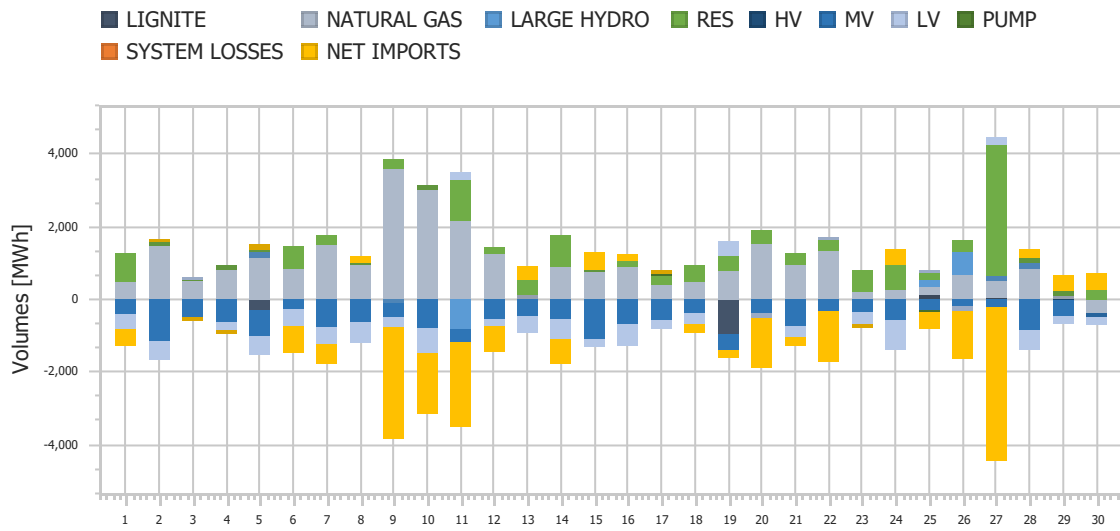
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Title	CRIDA2 - Market Clearing Price
Scope	Complementary Regional Intraday Auctions
Analysis	Daily



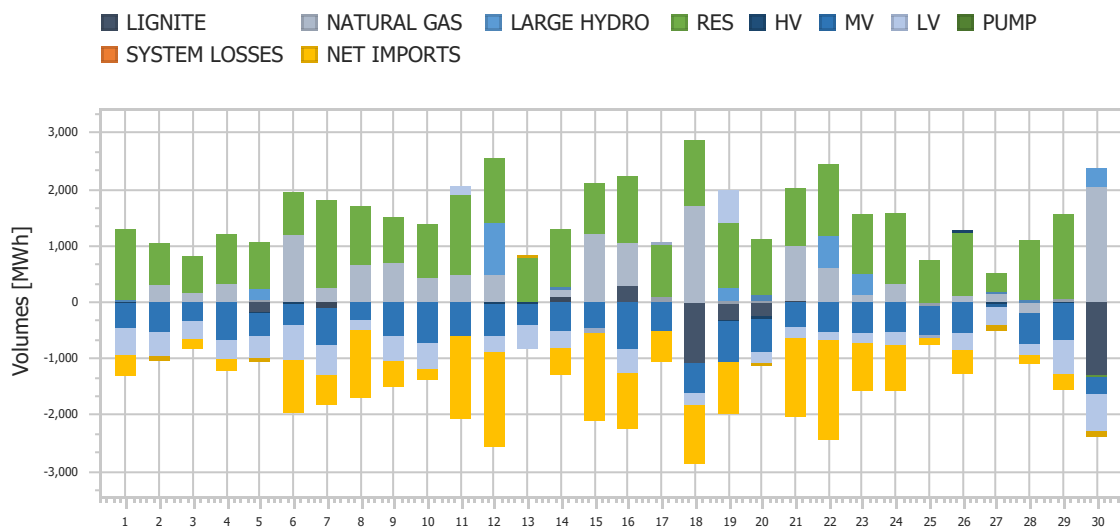
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Title	CRIDA3 - Market Clearing Price
Scope	Complementary Regional Intraday Auctions
Analysis	Daily



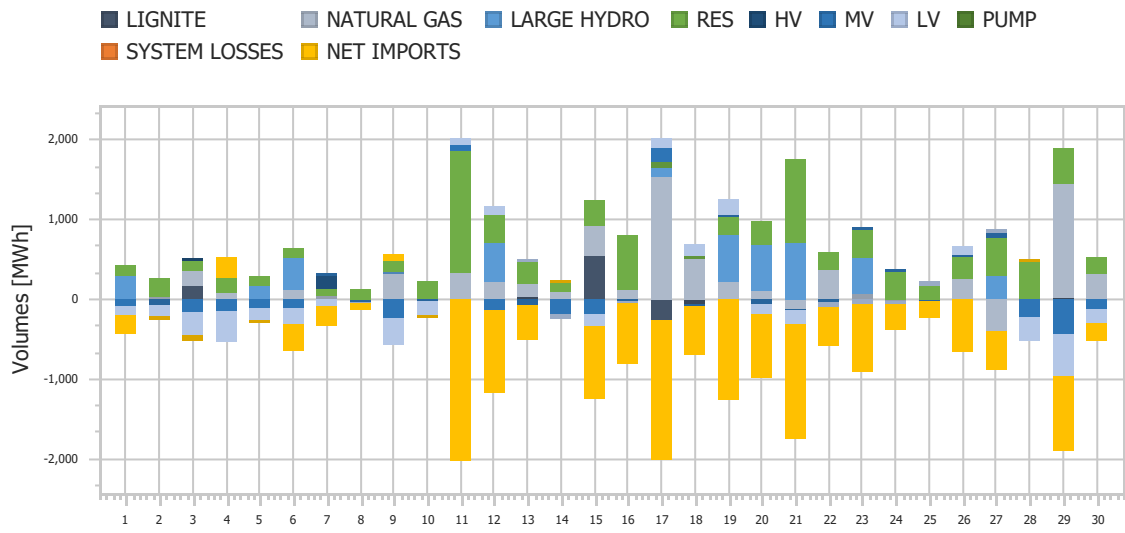
Ref No	Graph 2.6.1
Title	CRIDA1 - Energy Mix Changes
Scope	Complementary Regional Intraday Auctions
Analysis	Daily



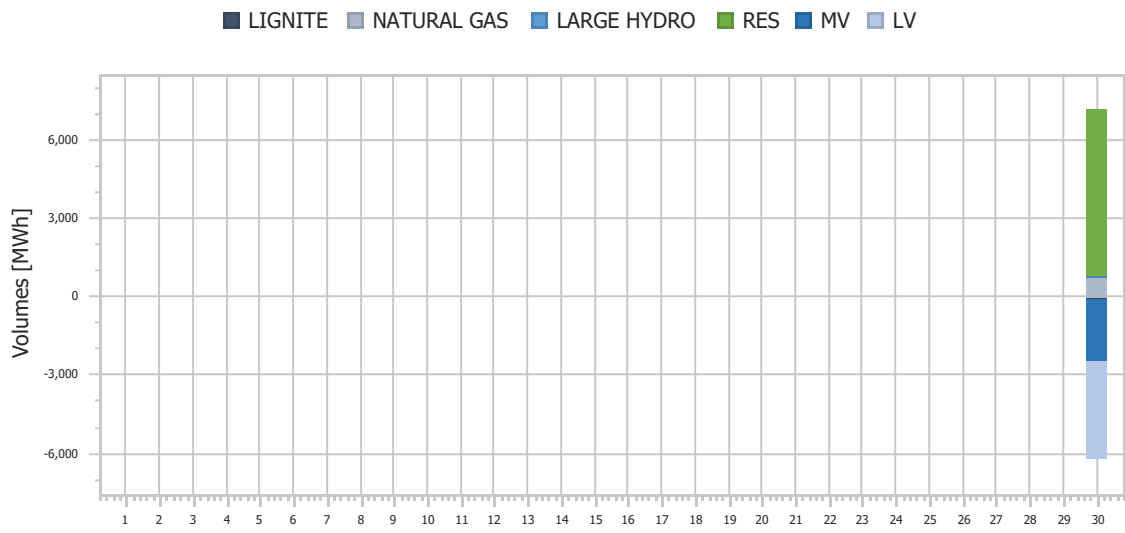
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Title	CRIDA2 - Energy Mix Changes
Scope	Complementary Regional Intraday Auctions
Analysis	Daily



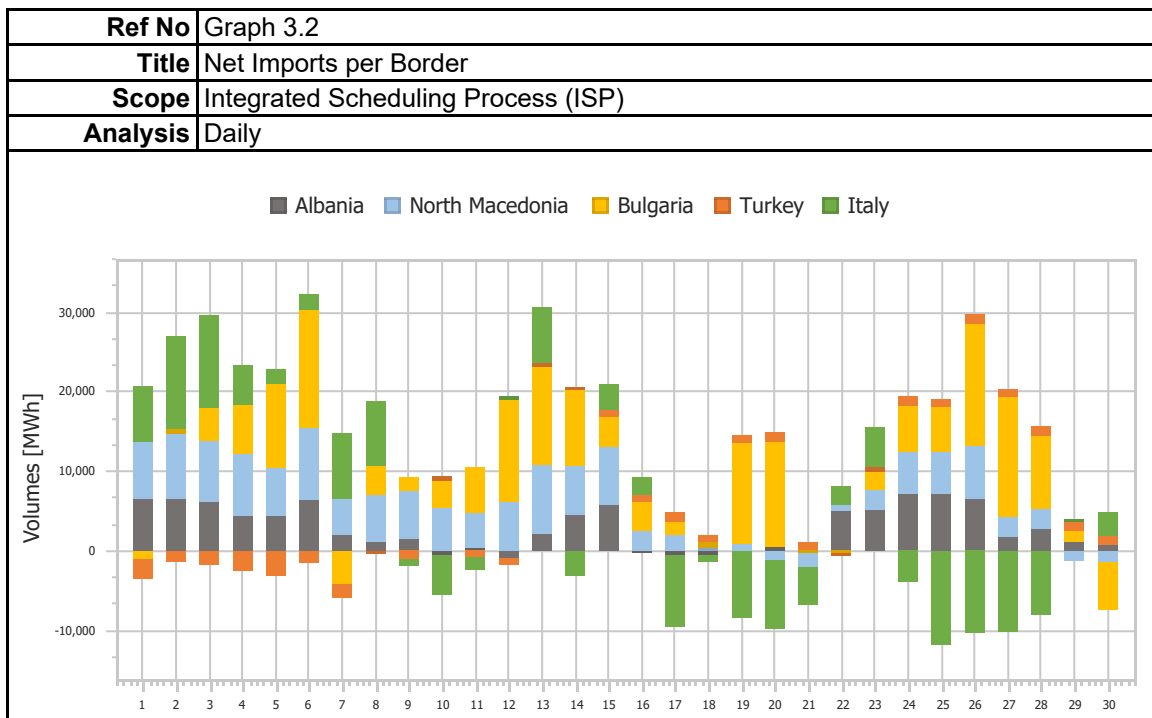
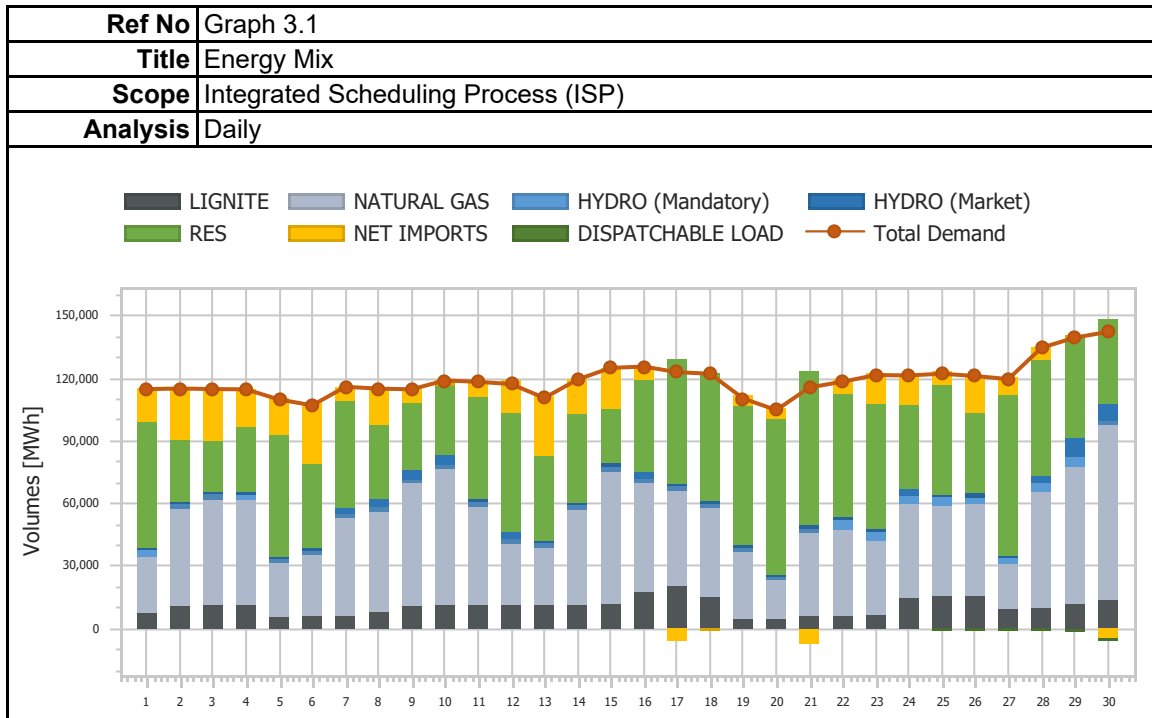
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Title	CRIDA3 - Energy Mix Changes
Scope	Complementary Regional Intraday Auctions
Analysis	Daily



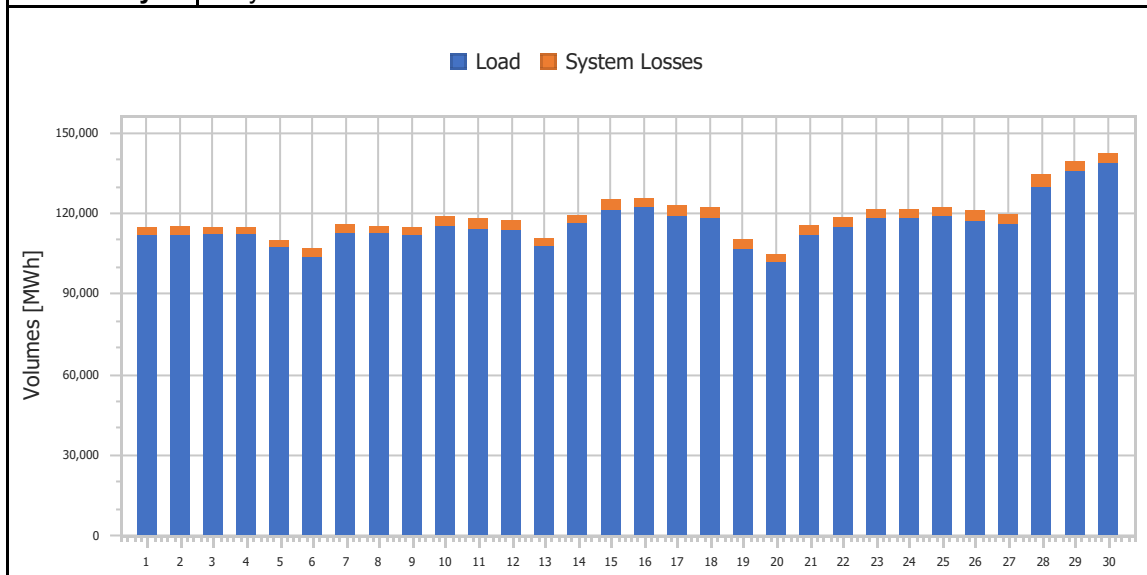
Ref No	Graph 2.7
Title	XBID - Energy Mix Changes
Scope	Continuous Intra-Day Trading (XBID) - excl. CBT
Analysis	Daily



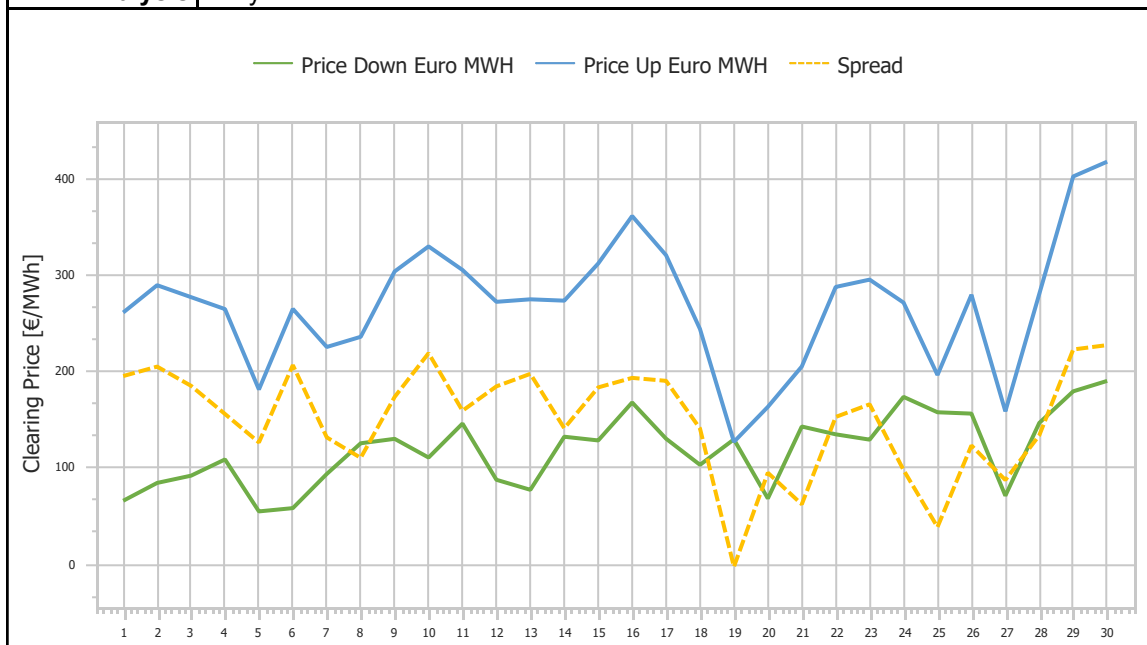
3. Integrated Scheduling Process (ISP)



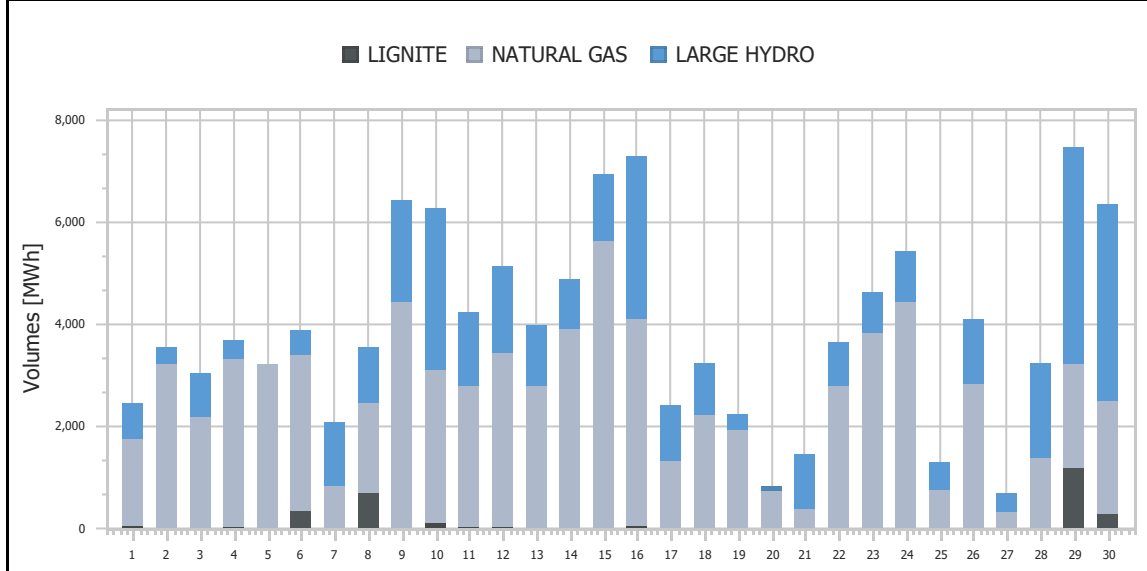
Ref No	Graph 3.3
Title	Demand & System Losses
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



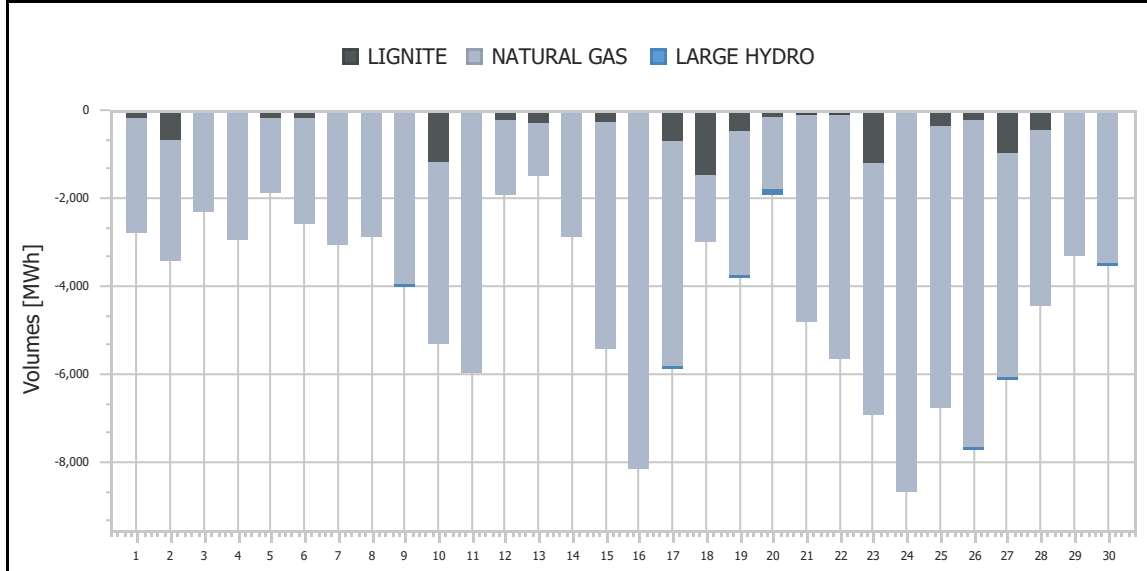
Ref No	Graph 3.4
Title	Clearing Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



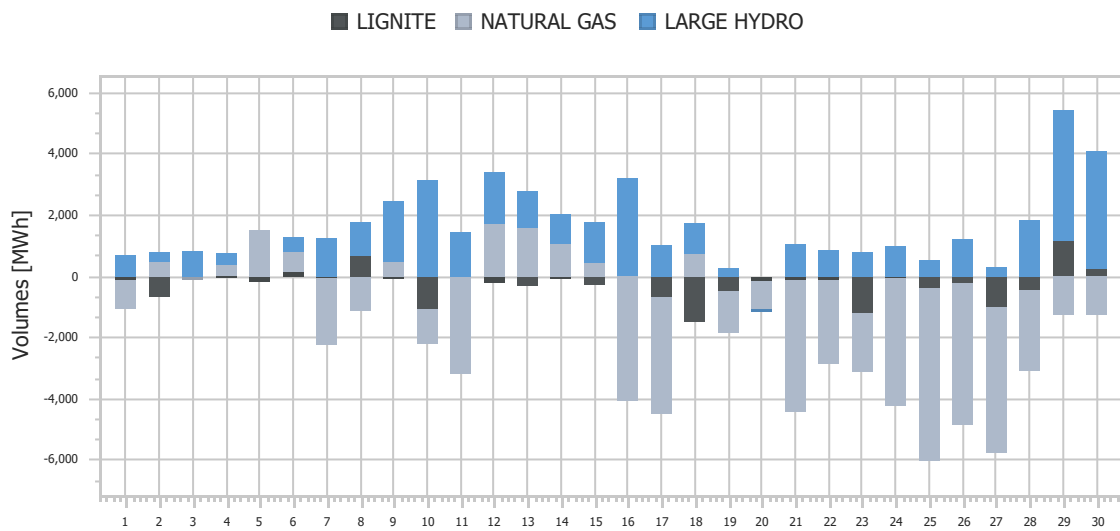
Ref No	Graph 3.5
Title	Upward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



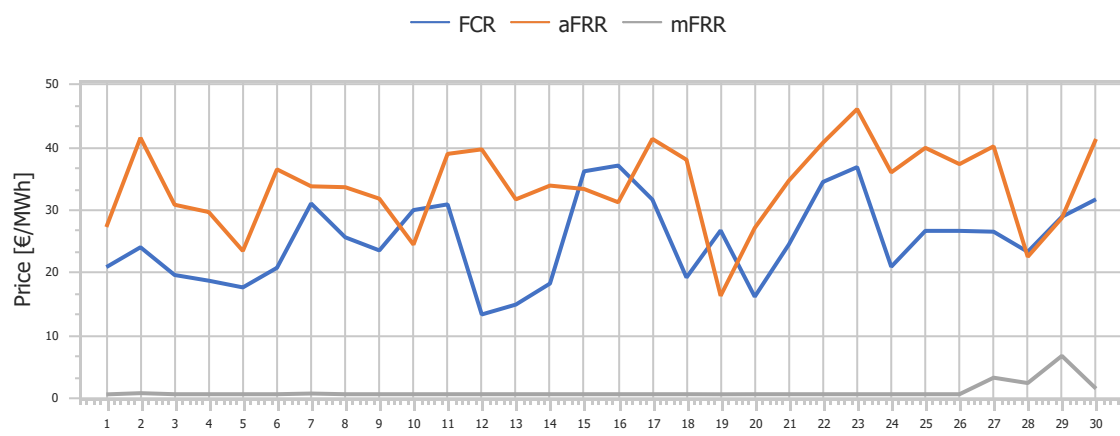
Ref No	Graph 3.6
Title	Downward Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



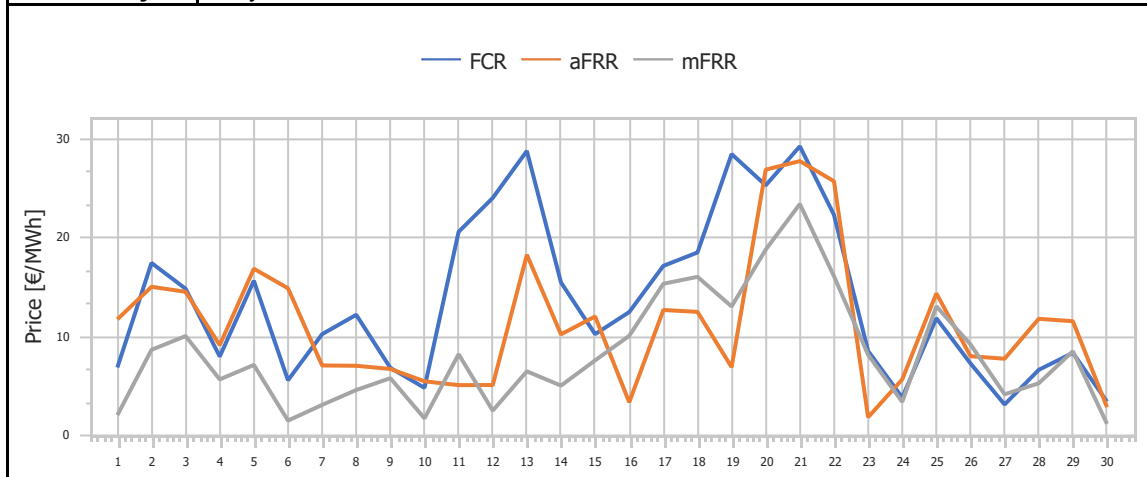
Ref No	Graph 3.7
Title	Net Activated Balancing energy
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



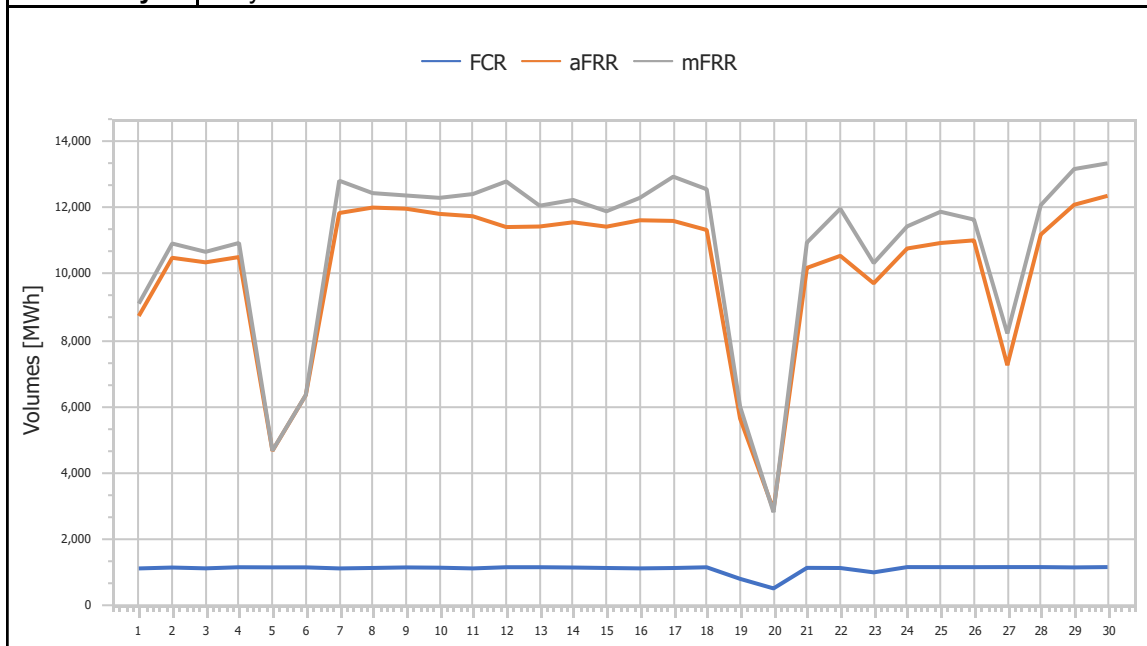
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Title	Upward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



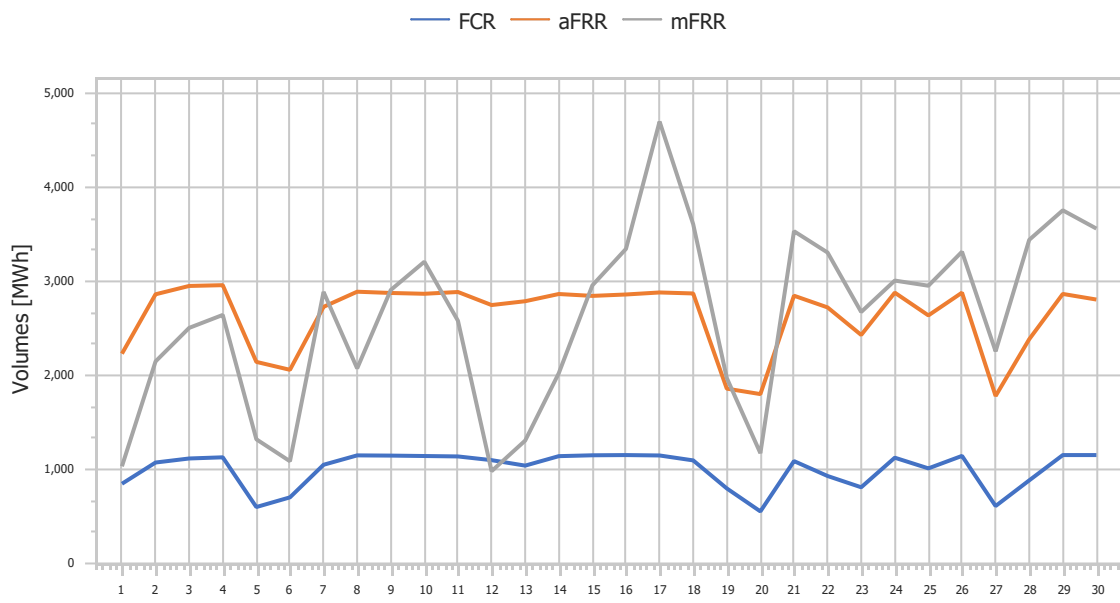
Ref No	Graph 3.9
Title	Downward Capacity Reserves Prices
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



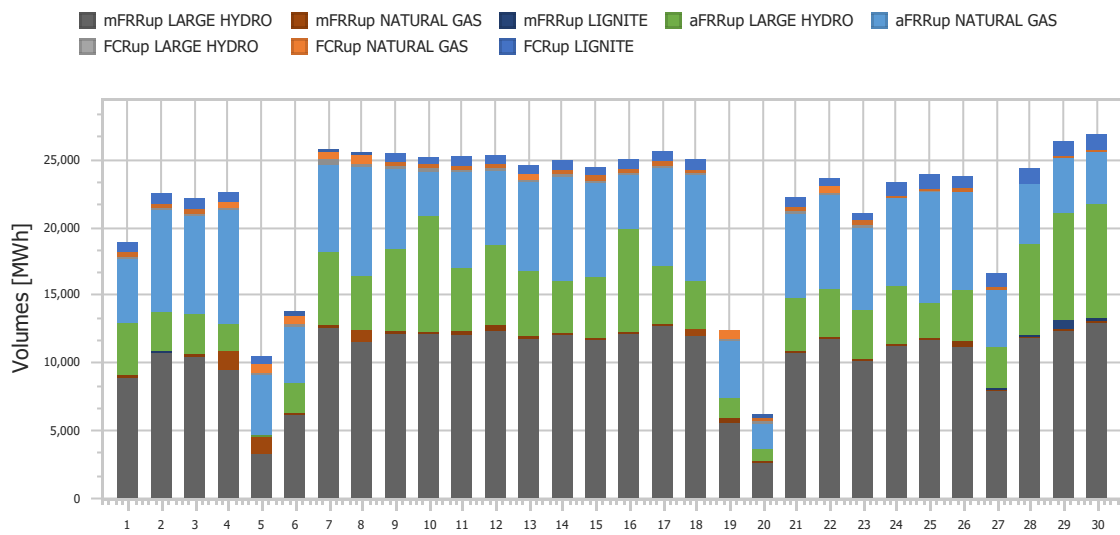
Ref No	Graph 3.10
Title	Upward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



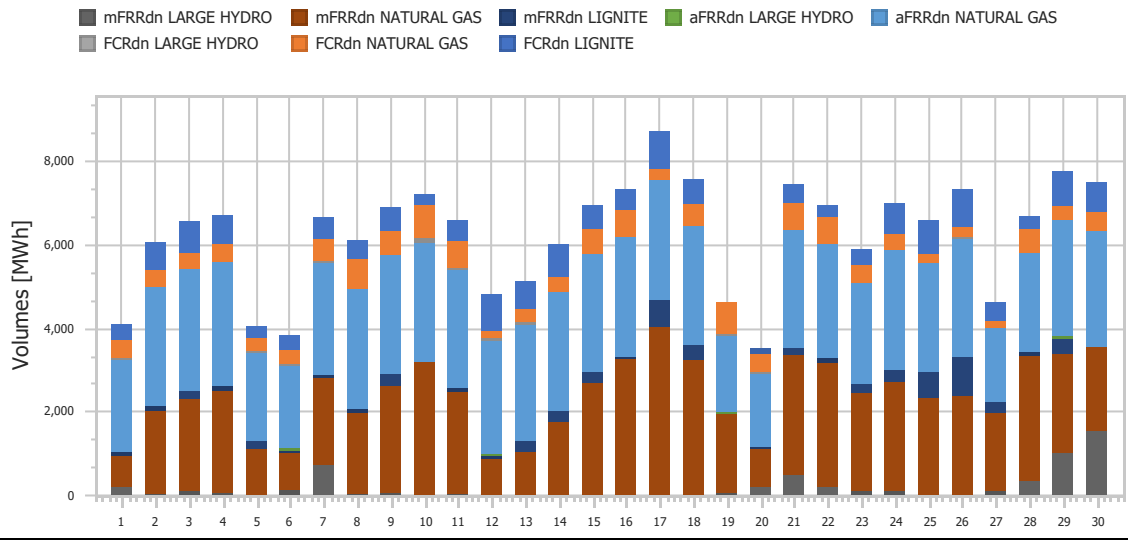
Ref No	Graph 3.11
Title	Downward Capacity Reserves Volumes
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



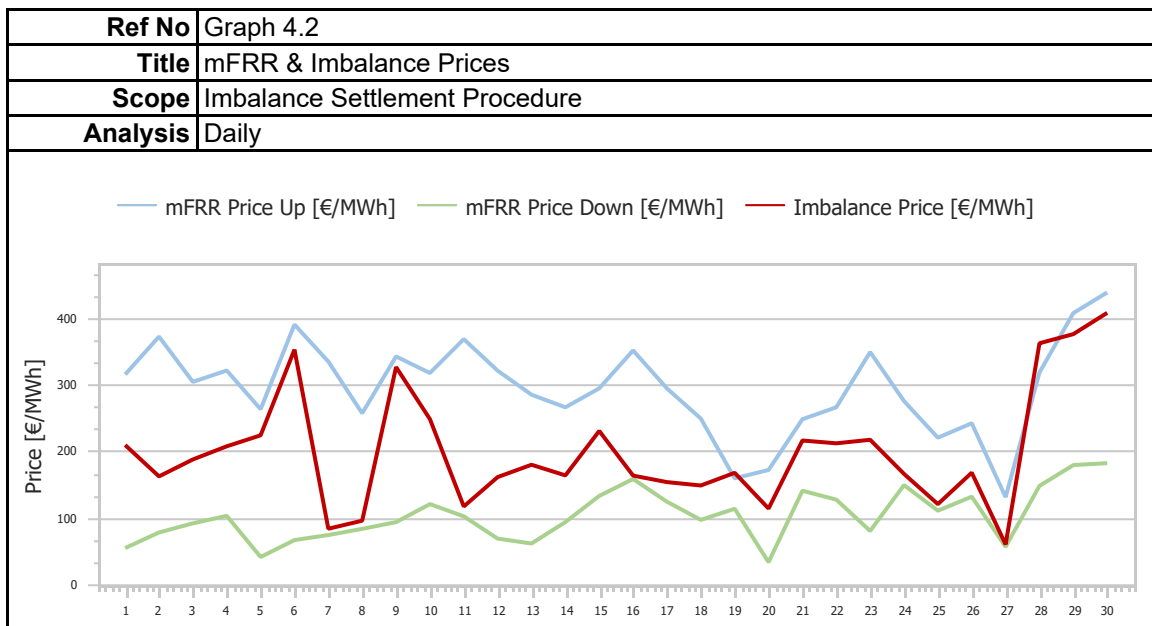
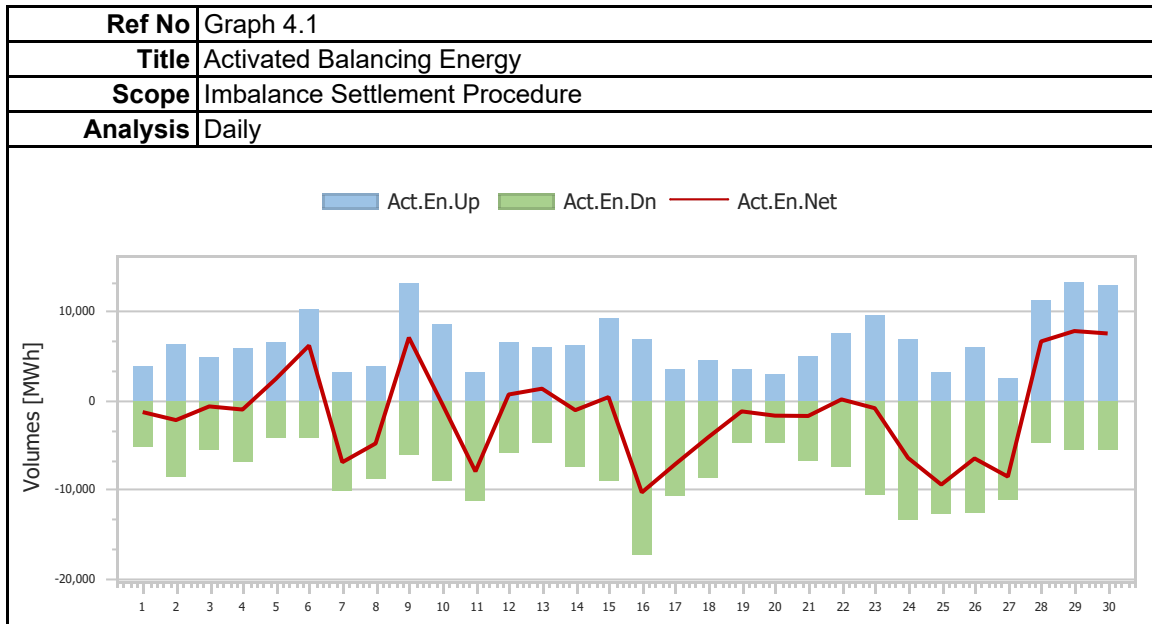
Ref No	Graph 3.12
Title	Upward Capacity Reserves Volumes per Technology
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



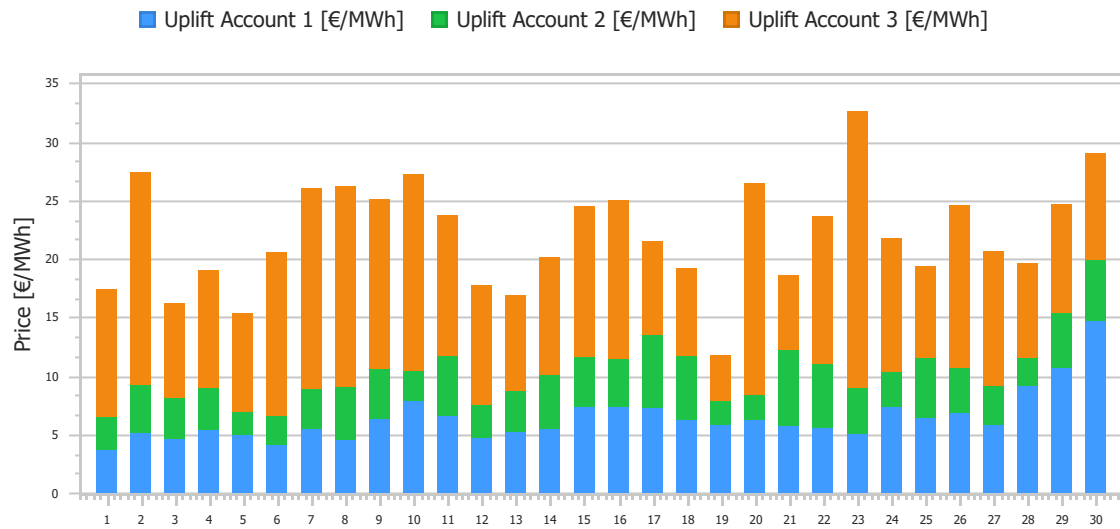
Ref No	Graph 3.13
Title	Downward Capacity Reserves Quantities per Type & Technology
Scope	Integrated Scheduling Process (ISP)
Analysis	Daily



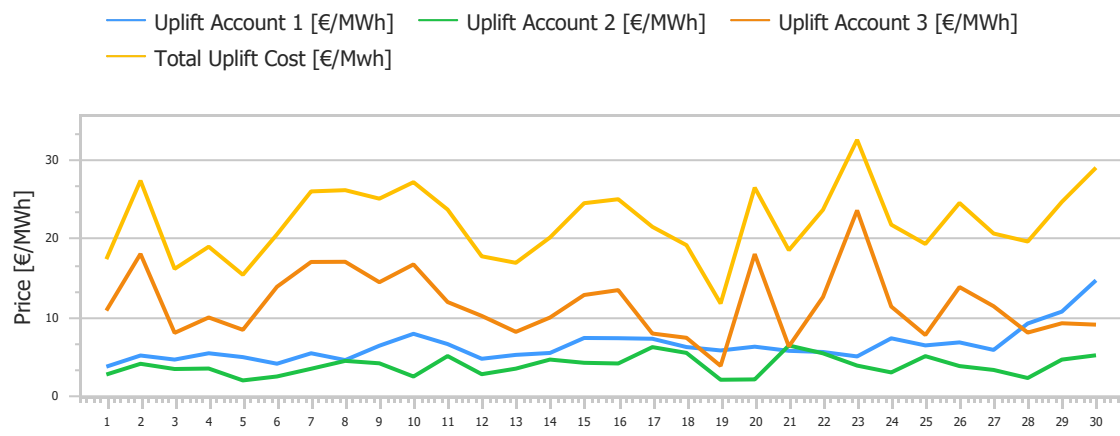
4. Imbalance Settlement Procedure



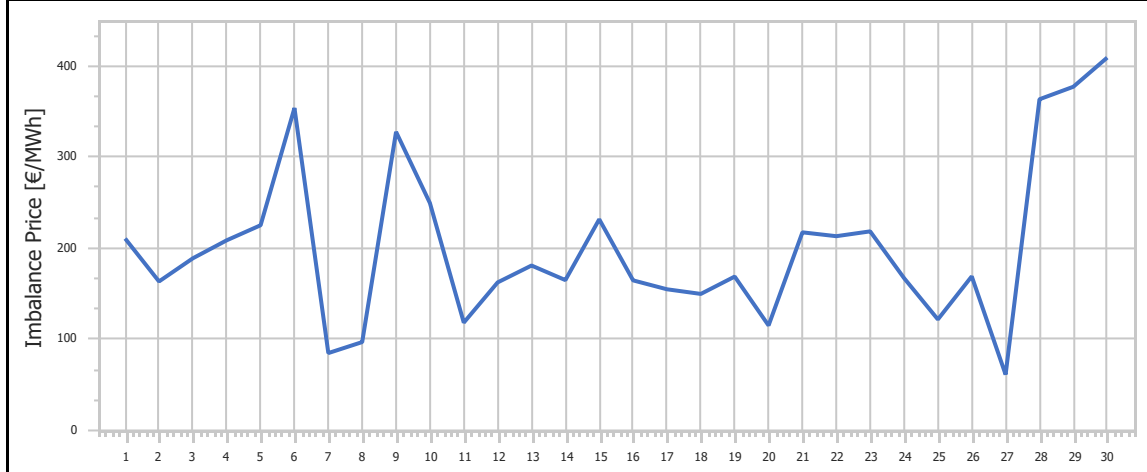
Ref No	Graph 4.3
Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



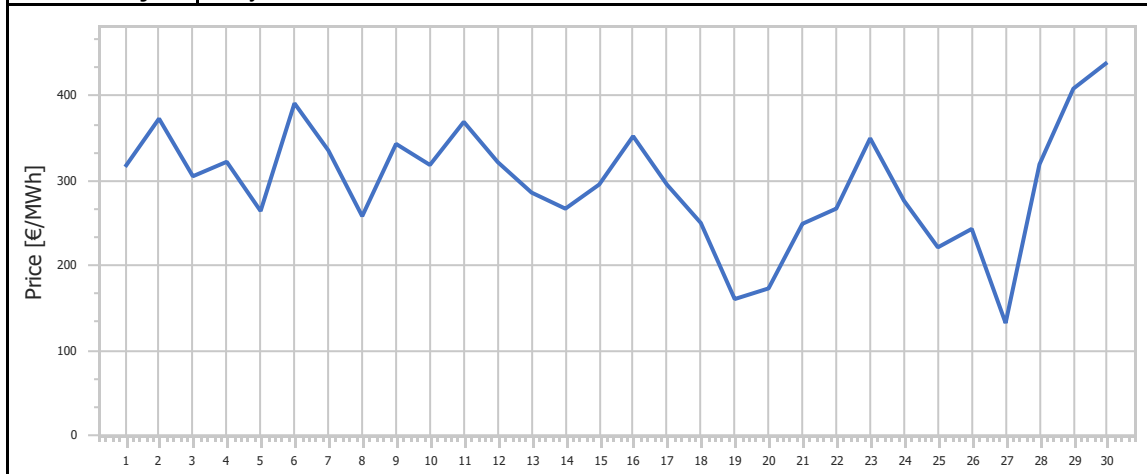
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Title	Uplift Accounts Cost
Scope	Imbalance Settlement Procedure
Analysis	Daily



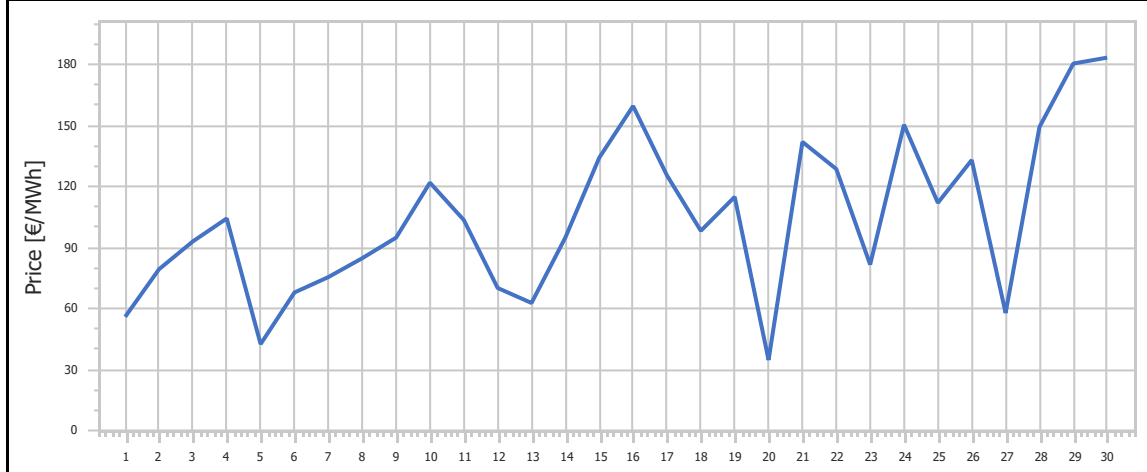
Ref No	Graph 4.5
Title	Imbalance Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



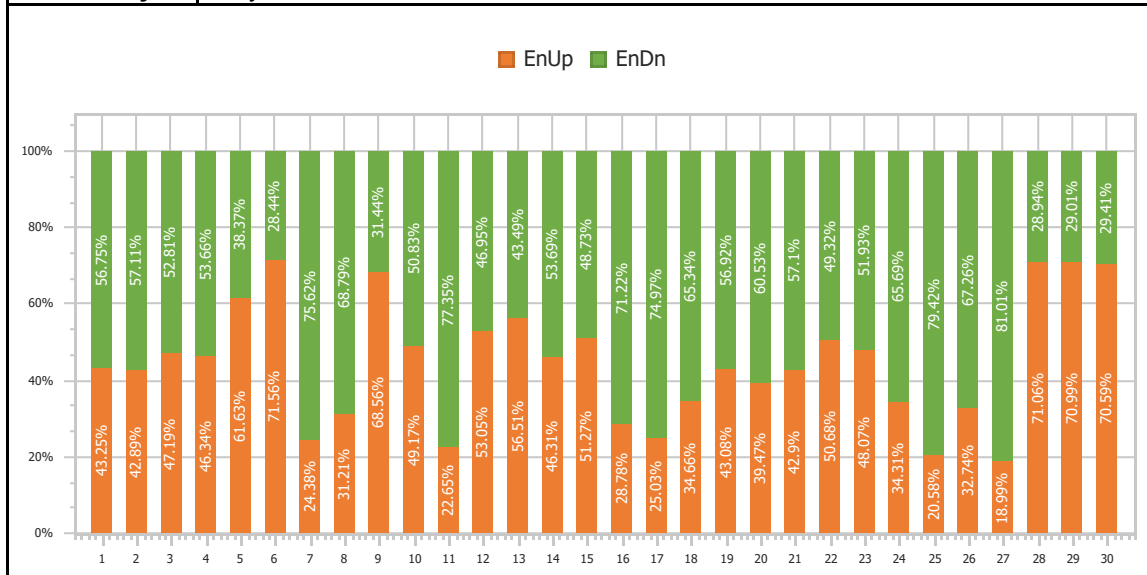
Ref No	Graph 4.6
Title	mFRR Up Price
Scope	Imbalance Settlement Procedure
Analysis	Daily



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

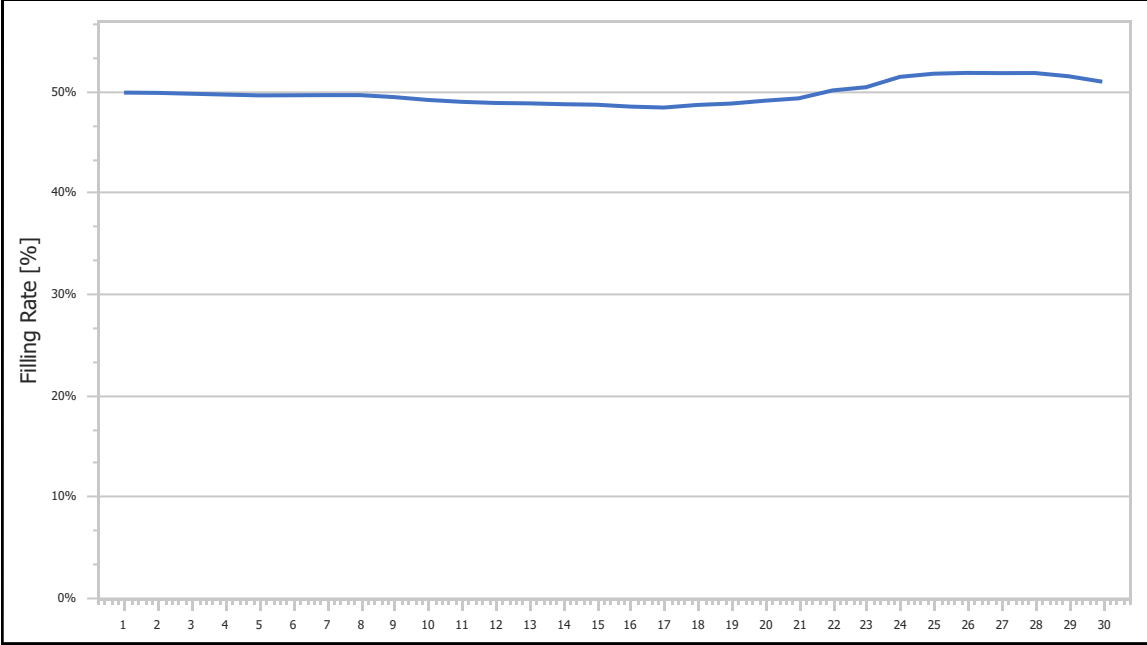


Ref No	Graph 4.8
Title	Balancing Energy Activation Direction
Scope	Imbalance Settlement Procedure
Analysis	Daily

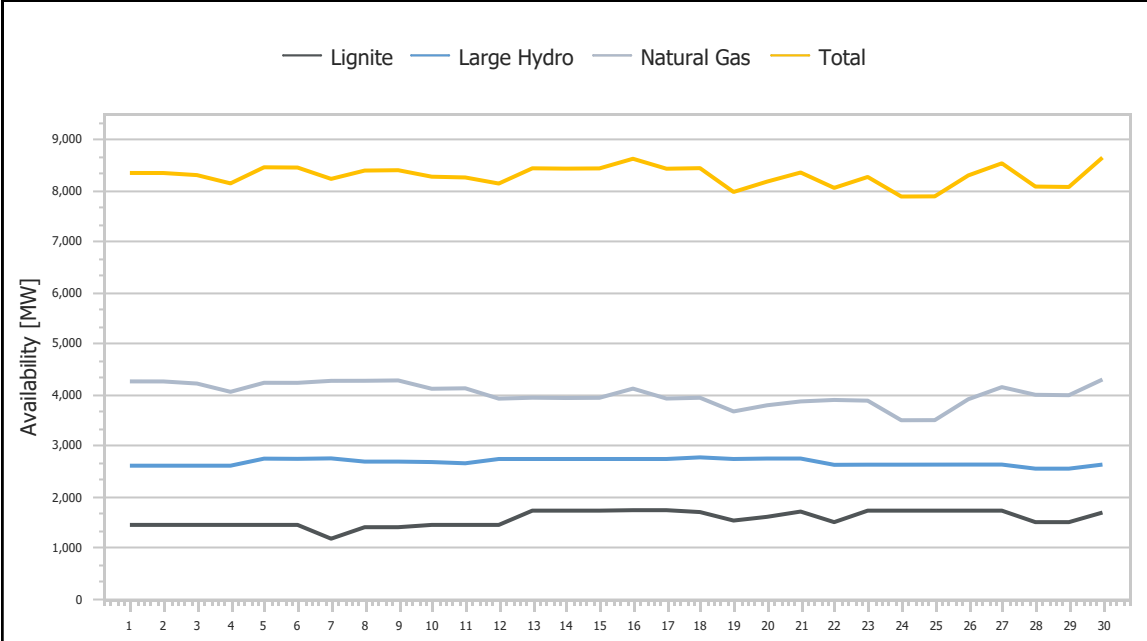


5. General Market Data

Ref No	Graph 5.1
Title	Reservoir Filling Rate
Scope	General Market Data
Analysis	Daily



Ref No	Graph 5.2
Title	Availability of Dispatchable Units per Type
Scope	General Market Data
Analysis	Daily



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	334,497.799	8.14%	79,761,525.13€	8.19%
Crete Conventional	91,677.900	2.23%	21,995,997.97€	2.26%
Natural Gas	1,322,388.408	32.18%	343,163,008.14€	35.24%
Large Hydro	108,465.393	2.64%	32,173,653.19€	3.30%
RES	1,367,457.086	33.28%	302,675,172.63€	31.09%
Crete Renewables	57,507.000	1.40%	13,030,029.33€	1.34%
Imports	826,869.431	20.12%	180,865,795.73€	18.58%
Total	4,108,863.017	100.00%	973,665,182.12€	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	-	4,108,863.02	334,497.80	91,677.90	1,322,388.41	108,465.39	1,367,457.09	57,507.00	826,869.43
Average	227.75	136,962.10	11,149.93	3,055.93	44,079.61	3,615.51	45,581.90	1,916.90	27,562.31
Min	143.64	118,394.33	5,280.00	2,001.95	17,582.41	2,116.00	24,327.39	616.00	16,829.43
Min day	05/11/2022	13/11/2022	20/11/2022	08/11/2022	20/11/2022	20/11/2022	03/11/2022	04/11/2022	17/11/2022
Max	377.94	161,675.95	21,757.00	3,556.00	82,541.15	9,623.10	70,532.90	3,372.00	40,972.70
Max day	30/11/2022	30/11/2022	17/11/2022	17/11/2022	30/11/2022	29/11/2022	20/11/2022	08/11/2022	06/11/2022
Spread	234.30	43,281.62	16,477.00	1,554.05	64,958.74	7,507.10	46,205.51	2,756.00	24,143.27
Standard Deviation	54.74	10,103.63	4,024.98	457.69	14,195.09	1,606.63	12,742.11	708.23	5,837.83

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	98,696.000	2.40%	23,470,814.66€	2.41%
Crete Load	195,387.000	4.76%	46,277,963.80€	4.75%
HV Load	625,481.616	15.22%	140,960,063.58€	14.48%
MV Load	809,047.975	19.69%	191,563,273.07€	19.67%
LV Load	1,970,448.555	47.96%	474,797,985.23€	48.76%
PUMP	4,827.704	0.12%	824,747.86€	0.08%
Exports	404,974.146	9.86%	95,770,306.31€	9.84%
Total	4,108,862.996	100.00%	973,665,154.49€	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	-	4,108,863.00	98,696.00	195,387.00	625,481.62	809,047.98	1,970,448.56	4,827.70	404,974.15
Average	227.75	136,962.10	3,289.87	6,512.90	20,849.39	26,968.27	65,681.62	536.41	13,499.14
Min	143.64	118,394.31	2,339.50	5,814.00	20,110.29	18,548.50	58,541.85	182.08	4,933.79
Min day	05/11/2022	13/11/2022	05/11/2022	20/11/2022	03/11/2022	20/11/2022	05/11/2022	06/11/2022	13/11/2022
Max	377.94	161,675.91	4,710.50	7,788.00	22,480.99	30,854.29	79,146.71	1,160.00	20,621.00
Max day	30/11/2022	30/11/2022	28/11/2022	30/11/2022	19/11/2022	29/11/2022	29/11/2022	29/11/2022	21/11/2022
Spread	234.30	43,281.60	2,371.00	1,974.00	2,370.69	12,305.79	20,604.86	977.92	15,687.21
Standard Deviation	54.74	10,103.64	553.18	416.45	749.98	3,465.83	5,591.61	321.53	4,169.68

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	1,175,302.060	73.89%	9,593,653.79€	86.59%
FCR	122,710.870	7.71%	1,257,283.79€	11.35%
mFRR	292,662.650	18.40%	228,375.14€	2.06%
Total	1,590,675.580	100.00%	11,079,312.73€	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	310,378.070	42.56%	1,257,931.80€	44.06%
FCR	117,121.160	16.06%	646,400.92€	22.64%
mFRR	301,696.160	41.37%	950,603.89€	33.30%
Total	729,195.390	100.00%	2,854,936.61€	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	66,595.870	32.74%	25,424,307.58€	32.66%
mFRR	136,834.520	67.26%	52,412,348.58€	67.34%
Total	203,430.390	100.00%	77,836,656.16€	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	48,737.920	19.44%	3,588,415.63€	14.65%
mFRR	201,940.280	80.56%	20,904,643.76€	85.35%
Total	250,678.200	100.00%	24,493,059.40€	100.00%

3. Market Overview

Ref No	Table 3.1
Title	Total Transactions Quantity per Market
Scope	DAM, IDM, Balancing Energy Market - SELL Side
Analysis	Monthly

Market	Quantity [MWh]	Share [%]
DAM	4,108,863.02	97.42%
CRIDA1	59,665.89	1.41%
CRIDA2	59,259.89	1.40%
CRIDA3	29,393.67	0.70%
XBID*	7,880.00	0.19%
IDM (Total)	156,199.45	3.70%
Balancing Energy (Up)	203,430.39	4.82%
Balancing Energy (Dn)	250,678.20	5.94%
Balancing Energy (Total)	-47,247.81	-1.12%
Total	4,217,814.65	100.00%

* Excluding CBT

Ref No	Table 3.2
Title	Total Transactions Value per Market
Scope	DAM, IDM, Balancing Energy Market - SELL Side
Analysis	Monthly

Market	Value [EUR]	Share [%]
DAM	973,665,182.12€	90.29%
CRIDA1	13,674,400.45€	1.27%
CRIDA2	13,639,360.20€	1.26%
CRIDA3	7,185,659.36€	0.67%
XBID*	2,905,347.16€	0.27%
IDM (Total)	37,404,767.17€	3.47%
Balancing Capacity (Up)	11,079,312.73€	1.03%
Balancing Capacity (Dn)	2,854,936.61€	0.26%
Balancing Capacity (Total)	13,934,249.34€	1.29%
Balancing Energy (Up)	77,836,656.16€	7.22%
Balancing Energy (Dn)	24,493,059.40€	2.27%
Balancing Energy (Total)	53,343,596.76€	4.95%
Balancing Market (Total)	67,277,846.10€	6.24%
Total	1,078,347,795.39€	100.00%

* Excluding CBT