

Market Results

Summary Dashboard



Monthly Averages	lan-24	Feb-24	Mar-24	Apr-24	May-24	lun-24	Jul-24	Δ110-24	Sep-24	Oct-24	Nov-24	Dec-24	lan-25	Feb-25
DAM (€/MWh)	99.9	84.6	86.67	88.52	107.75	107.74	110.94	100.44	112.73	122.9	146.14	136.99	167.51	140.85
% Change from previous month	12%	-15%	2%	2%	22%	0%	3%	-9%	12%	9%	19%	-6%	22%	-16%
% Change from previous year	-38%	-47%	-40%	-30%	2%	-8%	15%	-6%	1%	-2%	19%	54%	68%	66%
Actual System Demand (MW)	5151	4946	4833	4610	4356	4193	4279	4255	4467.76		5085	5020	5256	5194
% Change from previous month	6%	-4%	-2%	-5%	-6%	-4%	2%	-1%	5%	5%	9%	-1%	5%	-1%
% Change from previous year	5%	3%	0%	3%	2%	0%	4%	2%	3%	3%	4%	3%	2%	5%
Actual Wind Generation (MW)	1854	2000	2072	1496	894	1072	883	1437	1263	1668	1448	2040	1948	2509
% Change from previous month	-24%	8%	4%	-28%	-40%	20%	-18%	63%	-12%	32%	-13%	41%	-5%	29%
% Change from previous year	-7%	-1%	19%	-3%	1%	22%	-33%	3%	-9%	22%	-20%	-17%	5%	25%
Gas Price p/therm	74.87	63.37	68.18	71.69	76.69	81.51	75.07	84.71	86.94	99.04	111	111.22	122.85	123.04
% Change from previous month	-11%	-15%	8%	5%	7%	6%	-8%	13%	3%	14%	12%	0%	10%	0%
% Change from previous year	-52%	-53%	-39%	-29%	6%	5%	6%	2%	-5%	-6%	6%	32%	64%	94%
Carbon Price (€/Tonne)	65.52	55.79	57.94	63.25	70.90	68.29	67.00	70.12	64.86	63.51	67.15	67.05	75.87	76.08
% Change from previous month	-9%	-15%	4%	9%	12%	-4%	-2%	5%	-8%	-2%	6%	0%	13%	0%
% Change from previous year	-18%	-39%	-35%	-30%	-16%	-20%	-23%	-17%	-21%	-22%	-12%	-7%	16%	36%
Coal Price (\$/tonne)	107.65	96.84	111.78	118.13	106.15	109.54	105.93	121.36	114.96	119.65	120.84	113.32	109.23	102.88
% Change from previous month	-9%	-10%	15%	6%	-10%	3%	-3%	15%	-5%	4%	1%	-6%	-4%	-6%
% Change from previous year	-38%	-29%	-17%	-14%	-11%	-3%	-5%	5%	-5%	-9%	-1%	-4%	1%	6%
EWIC % Import Periods	69.76%	69.10%	63.78%	81.94%	84.98%	85.90%	94.59%	85.29%	81.53%	71.32%	78.30%	67.64%	67.88%	43.01%
EWIC % Export Periods	14.78%	11.00%	11.32%	4.86%	0.67%	3.72%	1.11%	7.56%	5.52%	10.31%	9.03%	11.49%	10.18%	13.91%
EWIC % Not Flow Periods	15.46%	19.90%	24.90%	13.19%	14.35%	10.38%	4.30%	7.15%	12.95%	18.37%	12.67%	20.87%	21.94%	43.08%
Moyle % Import Periods	78.16%	79.59%	79.00%	87.40%	94.96%	92.47%	96.77%	80.71%	91.98%	81.08%	82.47%	81.55%	78.53%	64.62%
Moyle % Export Periods	21.81%	20.34%	20.83%	12.50%	5.27%	7.53%	3.23%	10.44%	7.60%	18.65%	17.50%	18.41%	21.27%	22.43%
Moyle % Not Flow Periods	0.03%	0.07%	0.17%	0.10%	0.03%	0.00%	0.00%	8.84%	0.42%	0.28%	0.03%	0.03%	0.20%	12.95%
Greenlink % Import Periods	NA	NA	NA	NA	NA	NA	68.97%							
Greenlink % Export Periods	NA	NA	NA	NA	NA	NA	25.04%							
Greenlink % Not Flow Periods	NA	NA	NA	NA	NA	NA	5.99%							

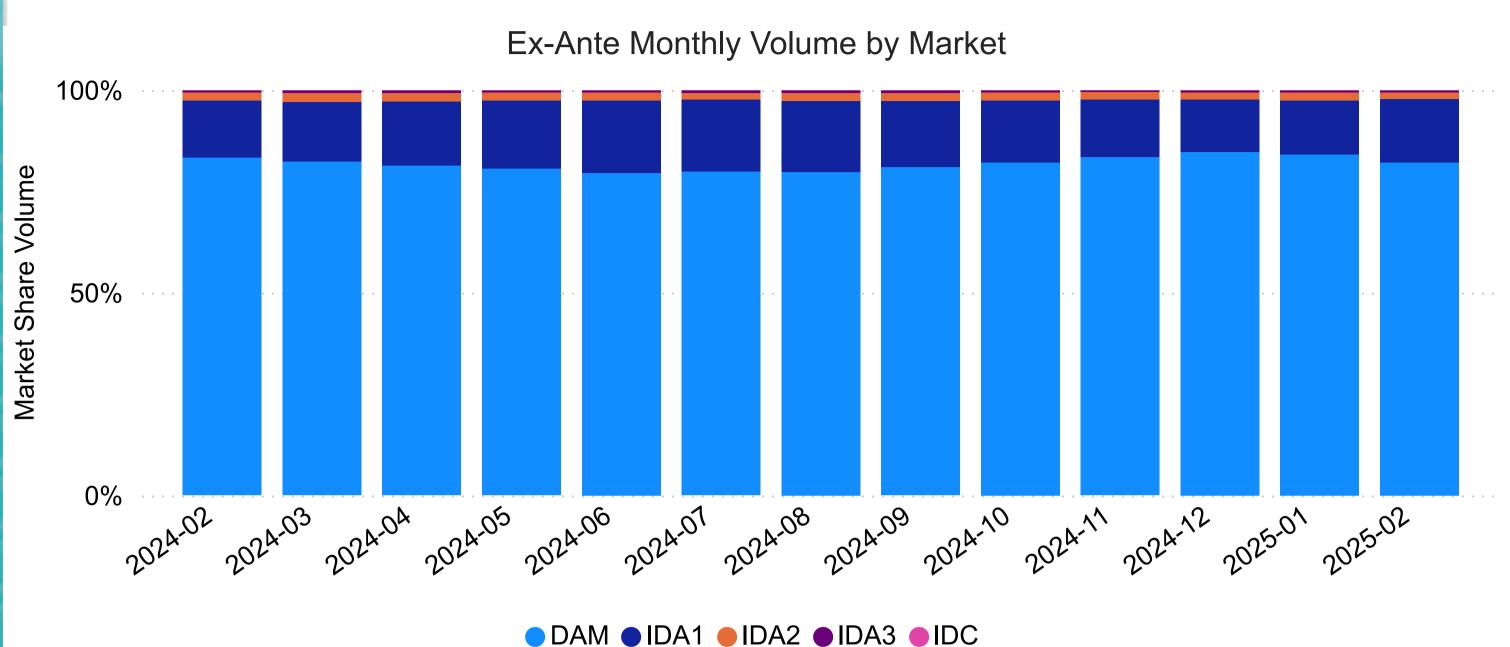
Market Volumes February 2025

Daily Average Volume	MWh
DAM	129,294
IDA1	24,711
IDA2	2,576
IDA3	801
IDC	55

Total Monthly Volume	MWh
DAM	3,620,234
IDA1	691,917
IDA2	72,139
IDA3	22,415
IDC	1,436
Total	4,408,142

AND THE RESERVE AND THE RESERV	The second second
Total Market Value	€
DAM	€ 517,997,989
IDA1	€ 102,699,486
IDA2	€ 10,501,630
IDA3	€ 3,991,728
IDC	€ 246,612
Total	€ 635,437,445



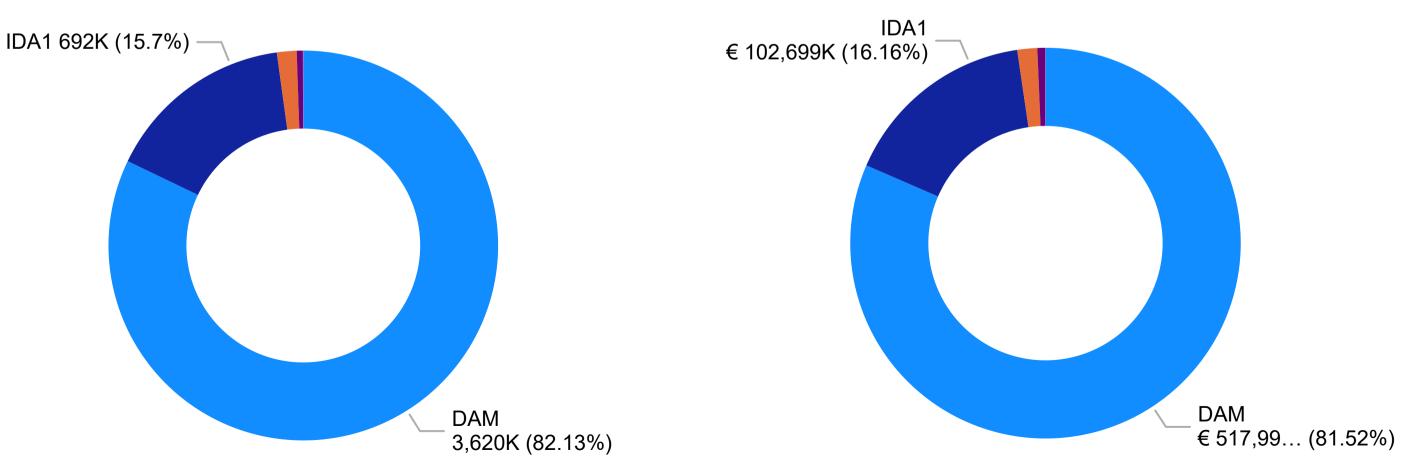


Ex-Ante Volumes (MWh)

● DAM ● IDA1 ● IDA2 ● IDA3 ● IDC



● DAM ● IDA1 ● IDA2 ● IDA3 ● IDC

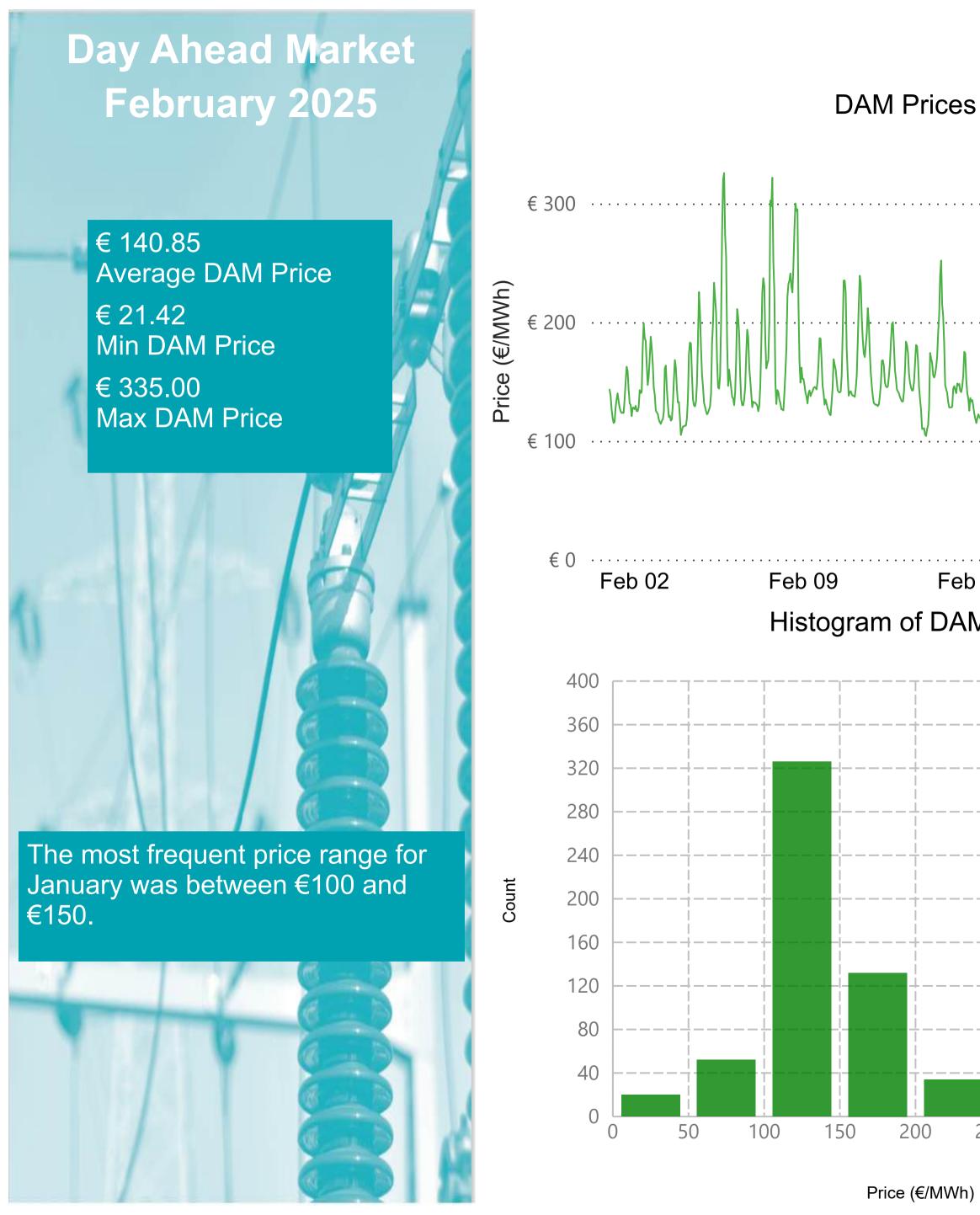


Market Volumes and Values

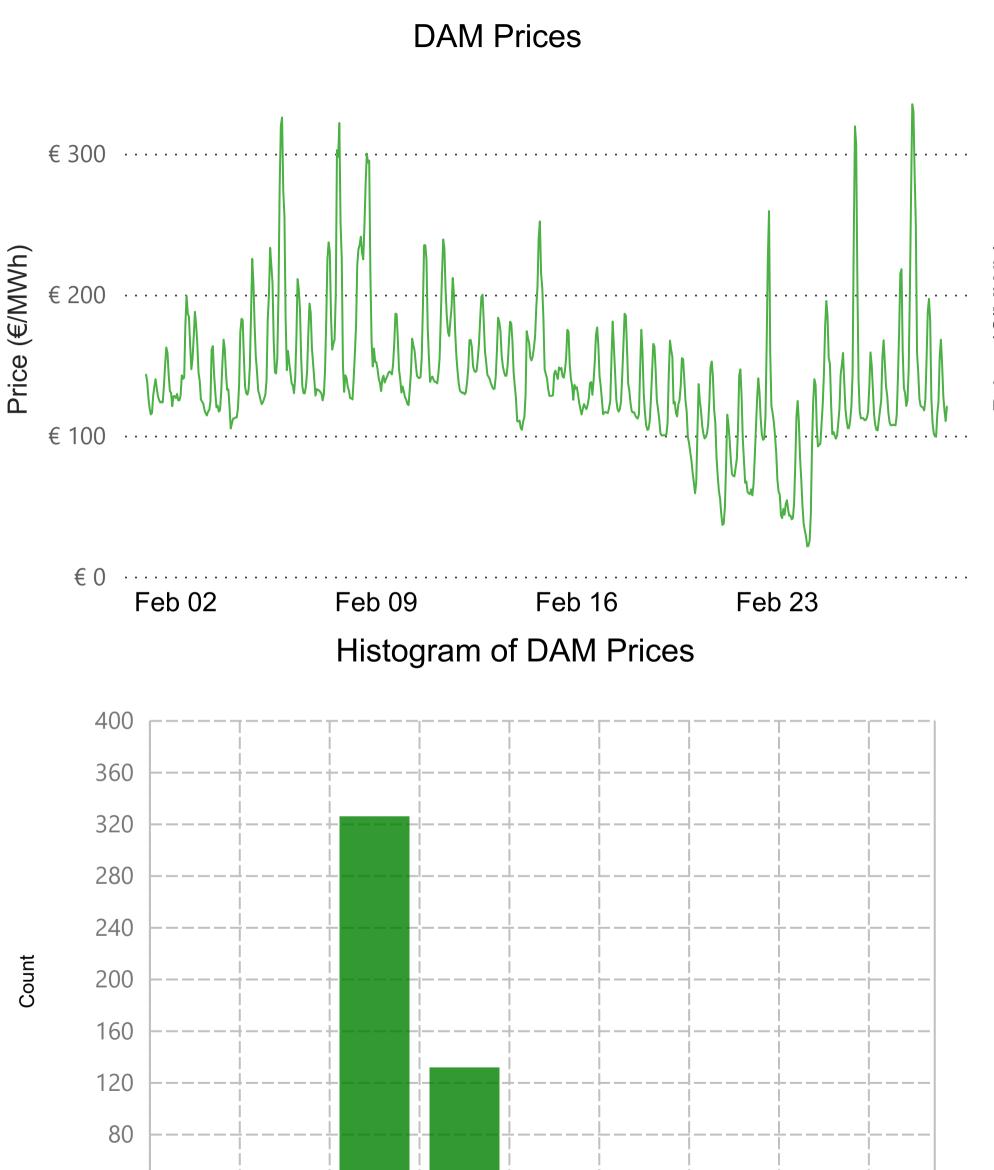
The Day Ahead Market is, by far, the largest market in the SEM, circa 80-85% of all transactions are cleared in this market. The distribution of volumes across the SEM markets have been broadly constant since the introduction of these trading arrangements in October 2018.

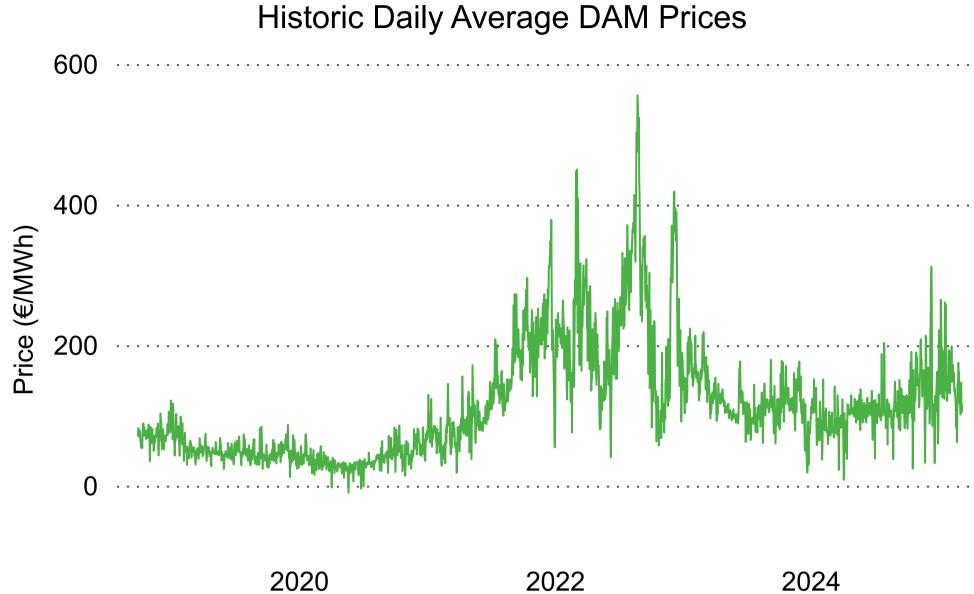
Generally, in power markets, market participants will prefer to lock their positions well ahead of delivery time given the increased volatility in prices closer to real time.

Another important factor is associated with the TSO dispatch arrangements. The vast majority of wind generation in the SEM is cleared at the Day Ahead stage. That might also explain to some extent the additional volumes cleared in this market.

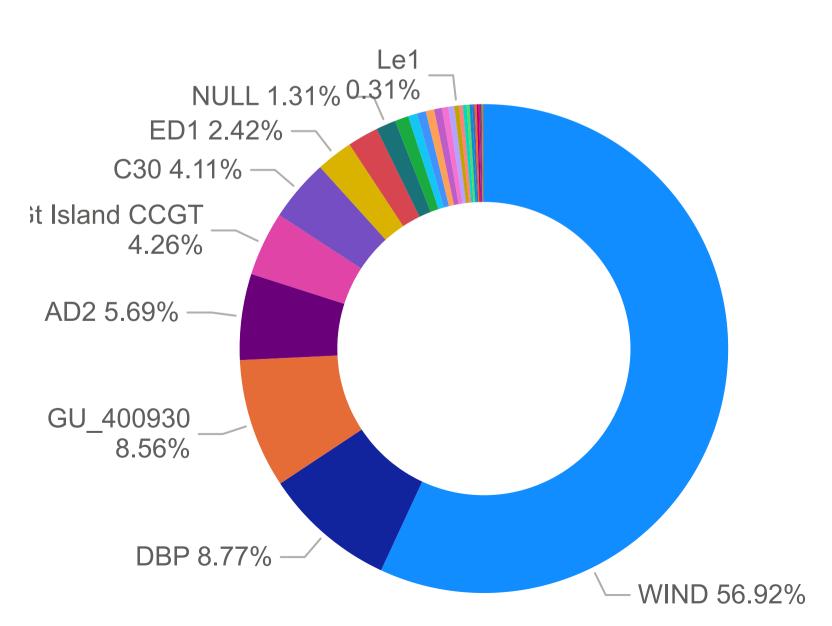






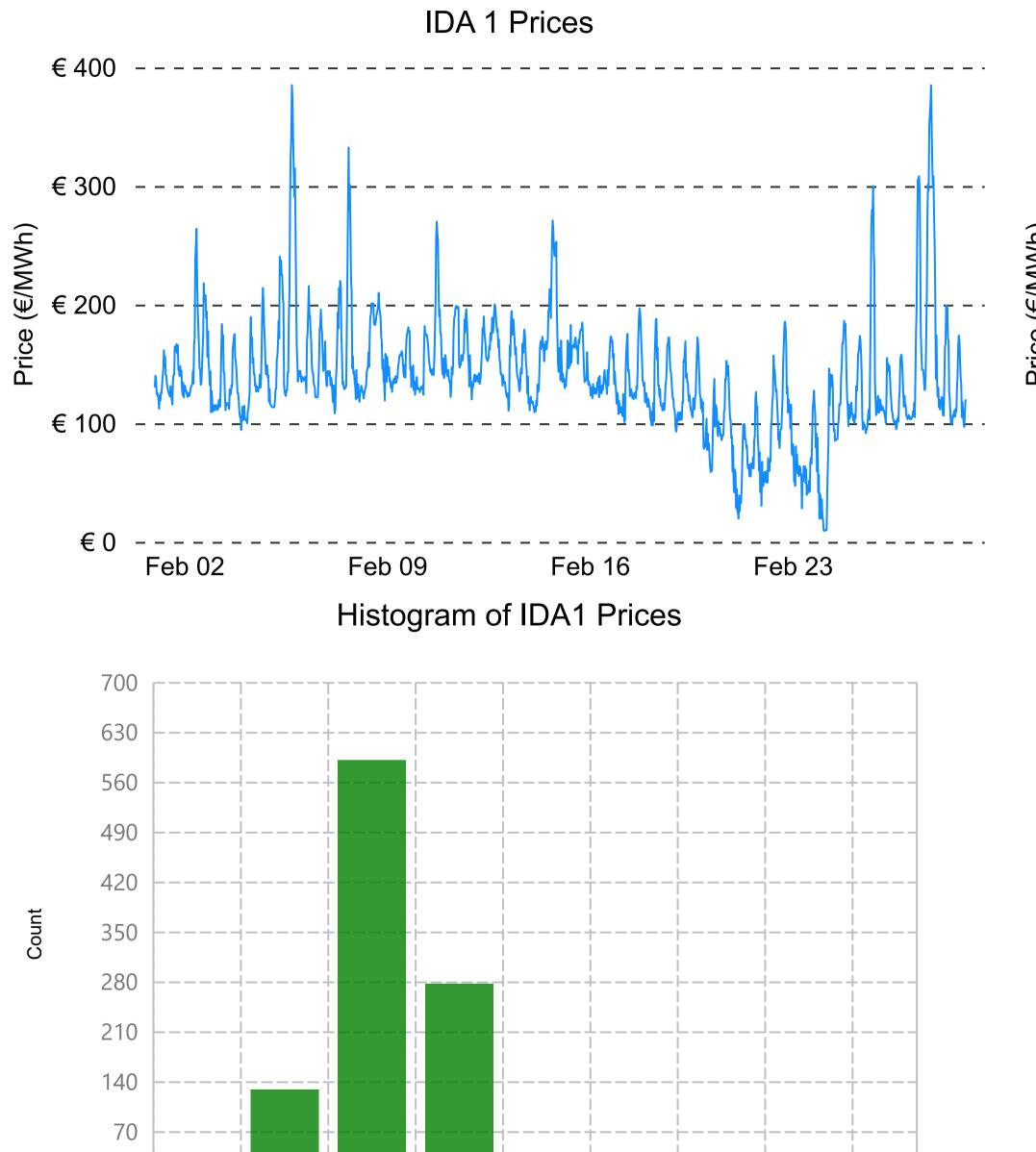


DAM Sell Side Generator Order Results



Intraday Market February 2025 € 138.52 Average IDA1 Price € 9.12 Min IDA1 Price € 385.00 Max IDA1 Price The most frequent price range for January was between €100 and €150.





100

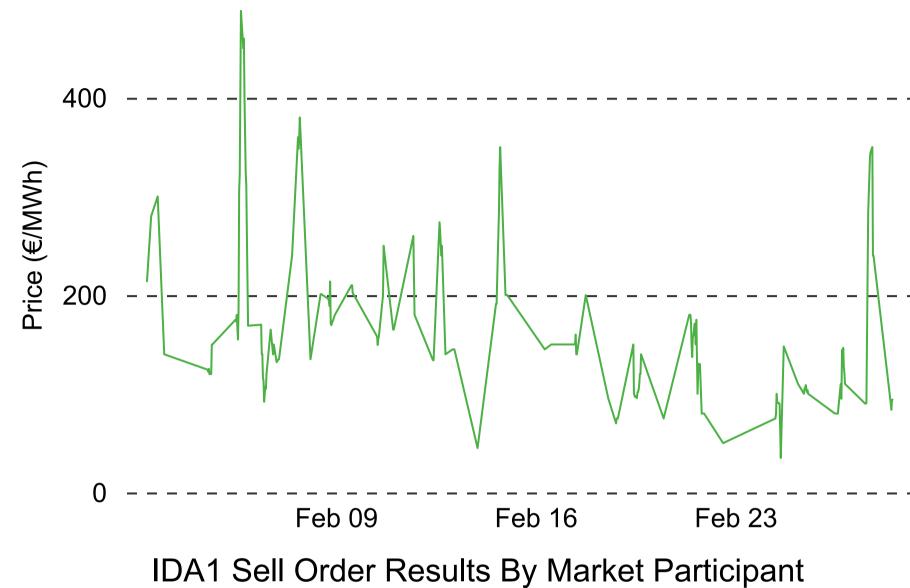
150

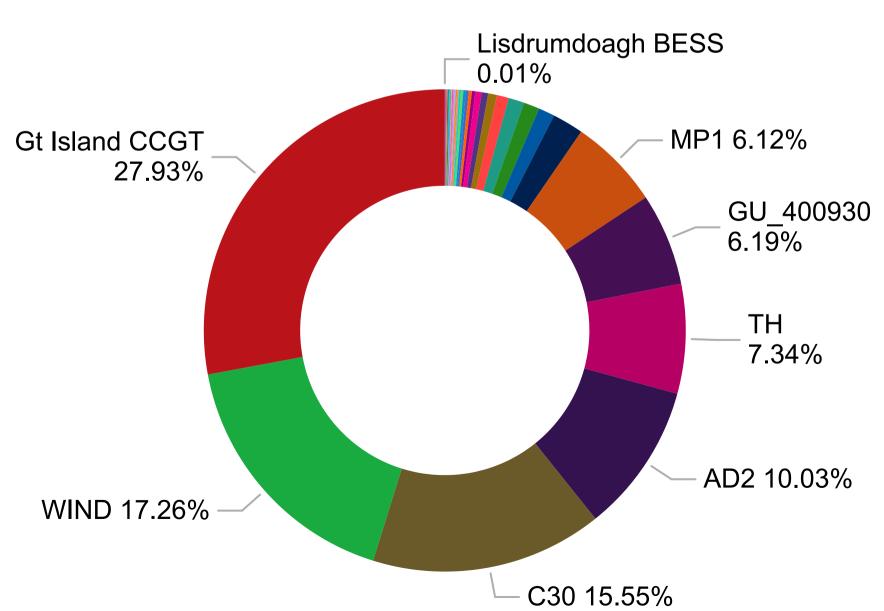
200

Price (€/MWh)

400

350





SEM vs GB DAM February 2025

SEM Day Ahead Price
€ 140.85
Average DAM Price
€ 21.42
Min DAM Price
€ 335.00
Max DAM Price

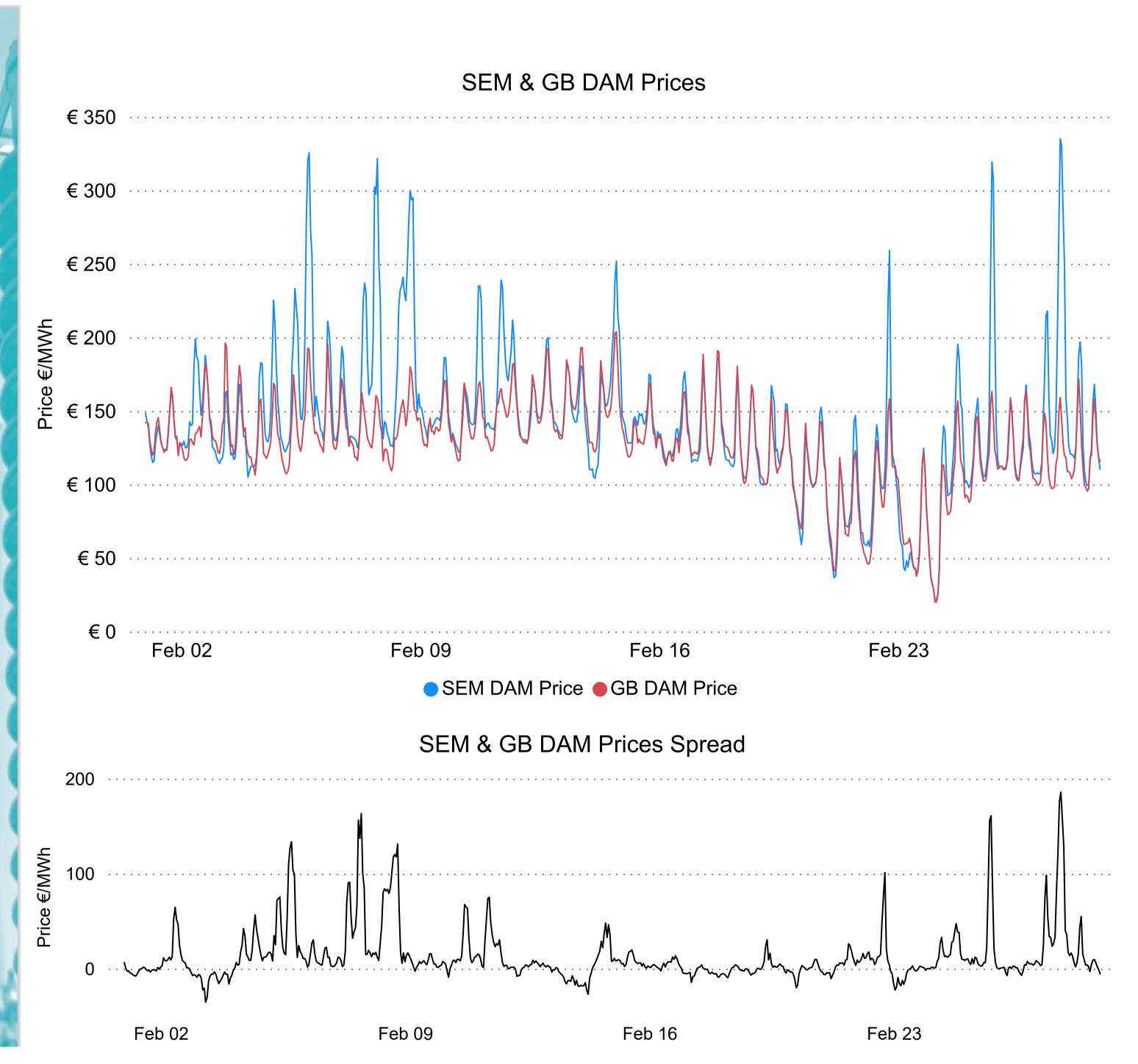
GB Day Ahead Price

€ 127.62
Average Price

€ 19.94
Min Price

€ 203.90
Max Price





SEM-GB Price Differential

The charts show that the SEM and GB prices appear to follow the same general trend.
Significant spreads can be observed on several occasions.

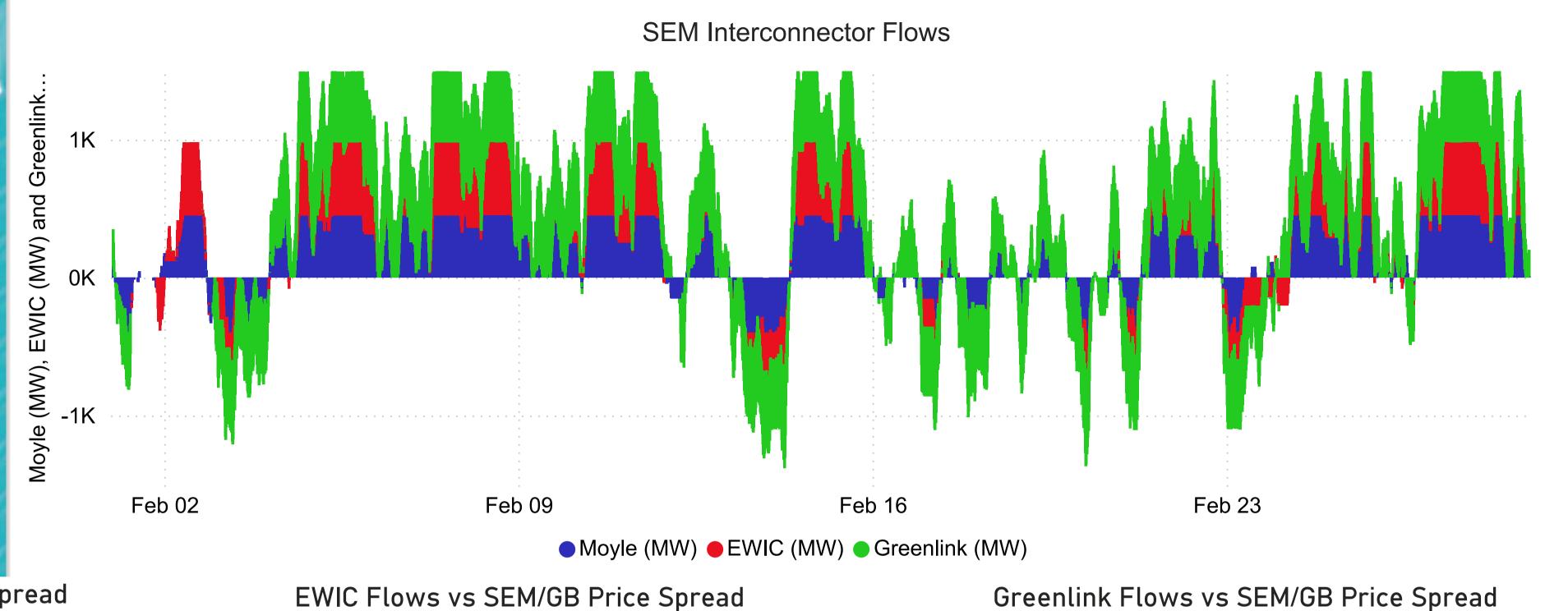
Basically, the periods of significant spreads between the two markets are generally correlated with period of very low wind.

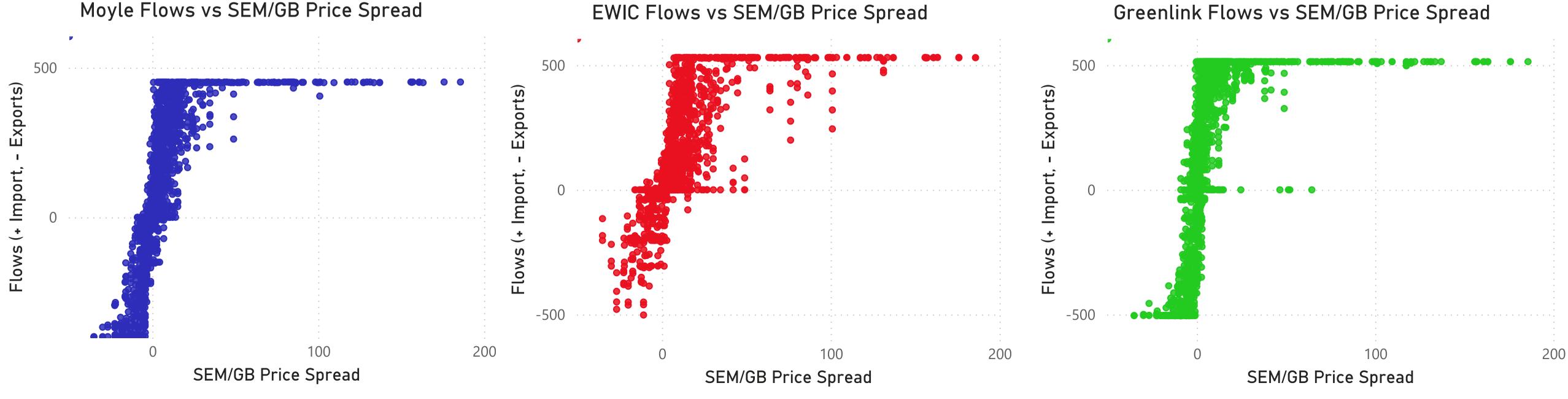
Due to the prevailing fuel mix across both regions, the GB price spiked during the period as more costly conventional generations may need to be brought online to meet demand.

The MMU is investigating this matter further and will come back to the SEMC in the foreseeable future with more information on this front.



Also the introduction of Greenlink coincides with decreased utilisation of both Moyle & EWIC. Average flows across Moyle have dropped by ~14% (from 293MW to 252MW). EWIC has experienced the most significant impact with average flows reduced by ~31% (247MW to 170MW).





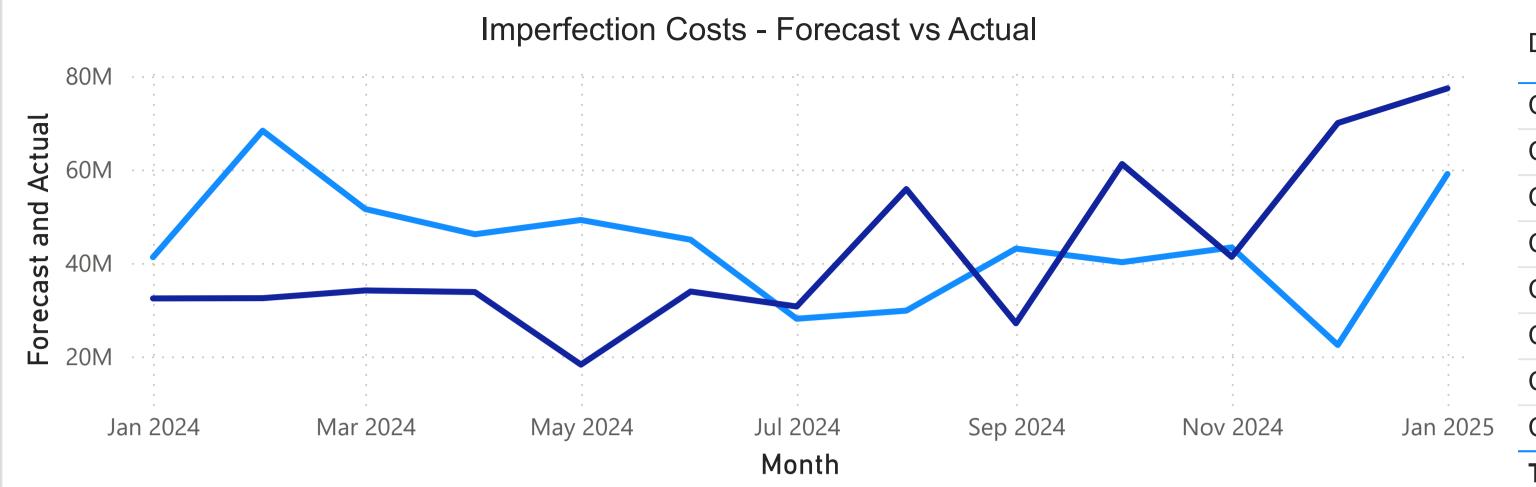
Balancing Market February 2025

Where power stations are run differently from the market schedule, it is termed "constraint". Subject to the Trading and Settlement Code and Firm Access, Constraint payments keep generators financially neutral for the difference between the market schedule and what actually happened when generating units were dispatched.

Generators can be constrained 'on' or 'up' if the market schedule indicated they were to be run at lower levels than actually happened. Or they could be constrained 'down' or 'off' if they were to be run at a higher level than happened in reality. There is always an overall net cost to the system associated with constraints.



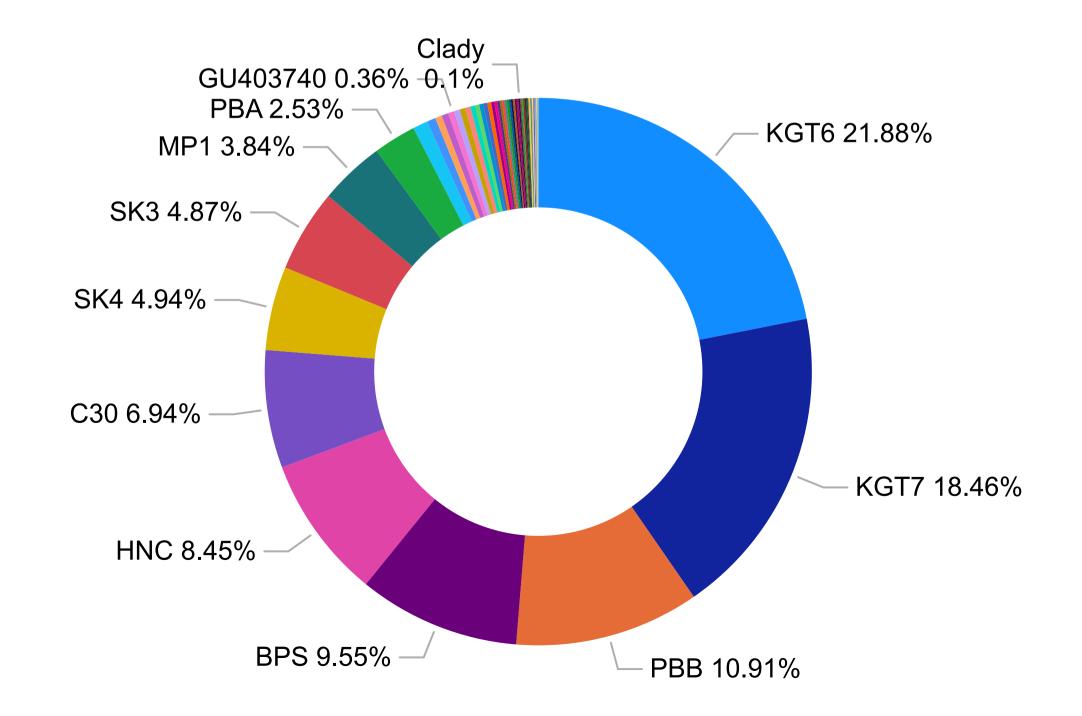




ForecastActual

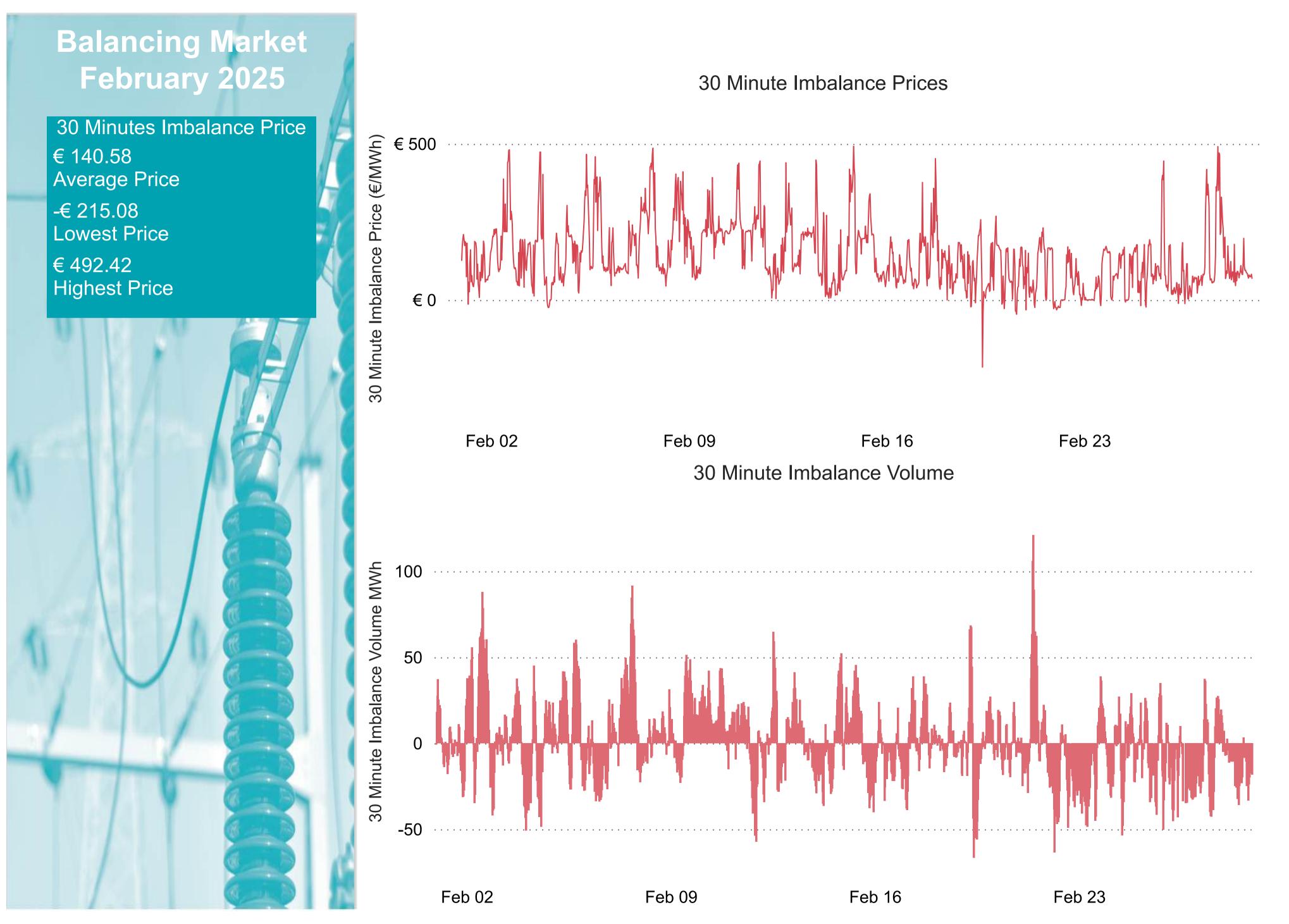
Determinant Name	Value €
CABBPO	67,359.14
CAOOPO	-583,311.37
CCURL	-1,308,070.98
CDISCOUNT	19,912,944.24
CFC	38,980,081.55
CPREMIUM	20,869,268.29
CTEST	-15,226.38
CUNIMB	-1,030,467.75
Total	76,892,576.74

Market Share per Unit (CFC, CPREMIUN, CDISCOUNT)



Constraints Payments

This charts illustrates the distribution of selected Constraint Payments, to specific power plants. As it can be seen, KGT6 (EP Killroot Ltd) was the largest receiver of these payments in February followed by KGT7 (EP Killroot Ltd).

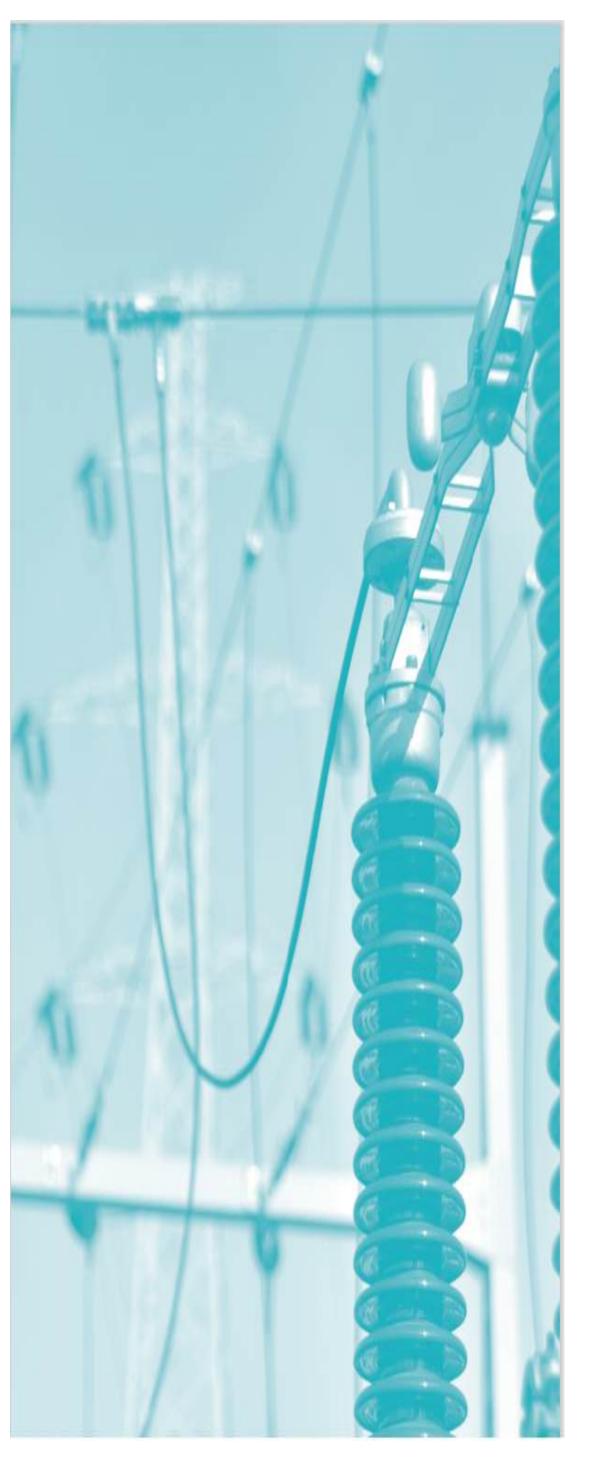




Imbalance Price & Volumes

The average Imbalance (BM) Price this month is approximately same to the Day Ahead Price. But the Balancing Market prices has exhibited a much higher range of prices indicating a higher level of volatility compared to Day Ahead Market Prices. This is an expected characteristic of the Balancing Market.

There were no Reliability Options events this month as the Balancing Market prices have not breached the PSTR level.





Demand and Generation Mix

Demand February 2025

SEM Demand

5,193.96 4,945.52

SEM Average 2025 SEM Average 2024

4,012.79 3,787.67 SEM Min 2025 SEM Min 2024

6,308.04 6,041.03 SEM Max 2025 SEM Max 2024

NI Demand

896.04 887.72

NI Average 2025 NI Average 2024

574.82 566.13 NI Min 2025 NI Min 2024

1,198.39 1,196.93 NI Max 2025 NI Max 2024

ROI Demand

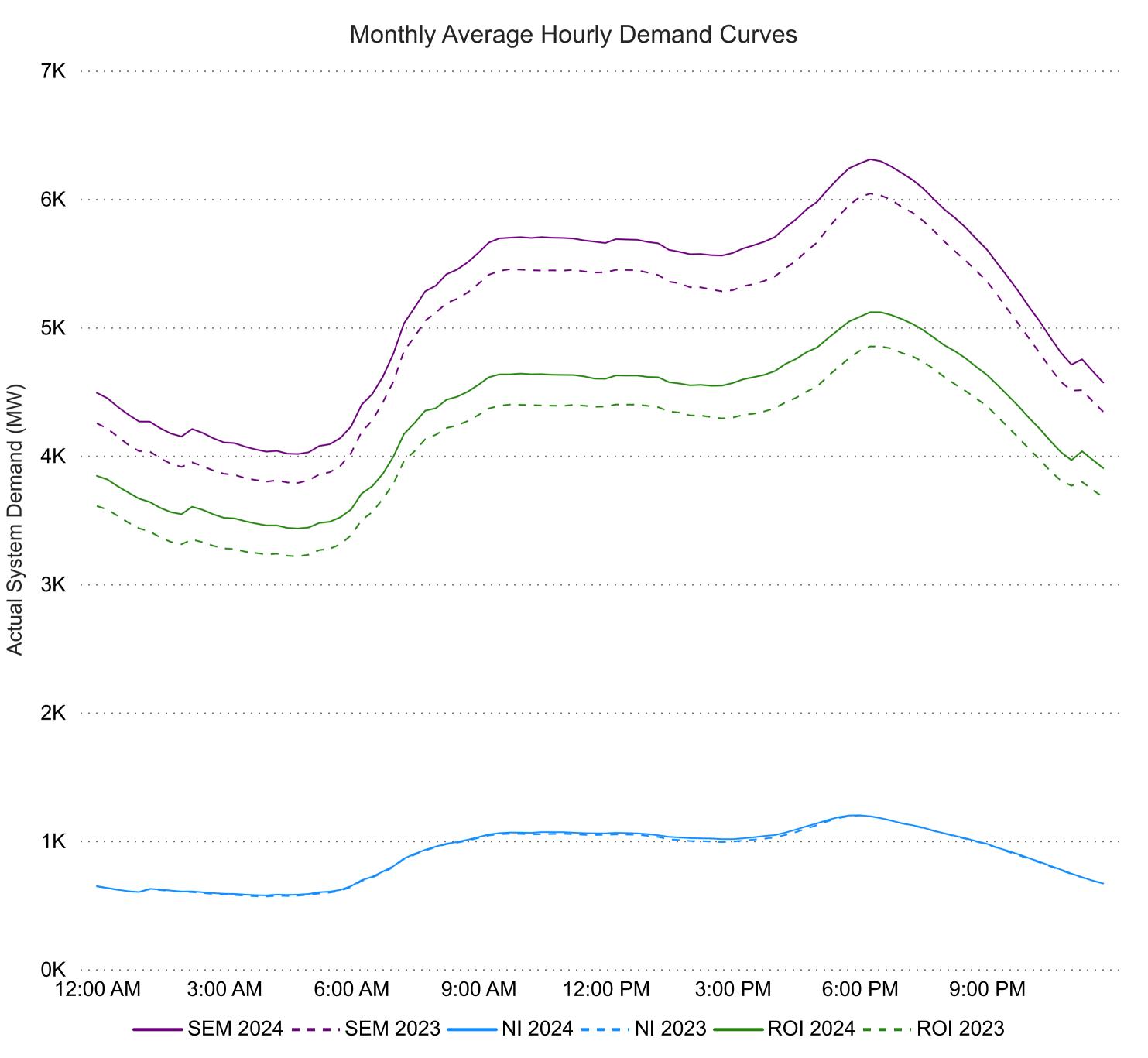
4,297.98 4,057.77

ROI Average 2025 ROI Average 2024

3,432.39 3,215.07 ROI Min 2025 ROI Min 2024

5,117.43 4,850.60 ROI Max 2025 ROI Max







SEM Demand

The graph illustrates a steady demand within NI, with a minimal increase of 0.93% compared to the same period in the previous year.

The demand for ROI during the month has shown an increase of 5.91% relative to the same period last year.

Overall demand in the SEM has increased by 5.02% compared to the same period last year, showing a significant upward trend.

Duration Curves February 2025

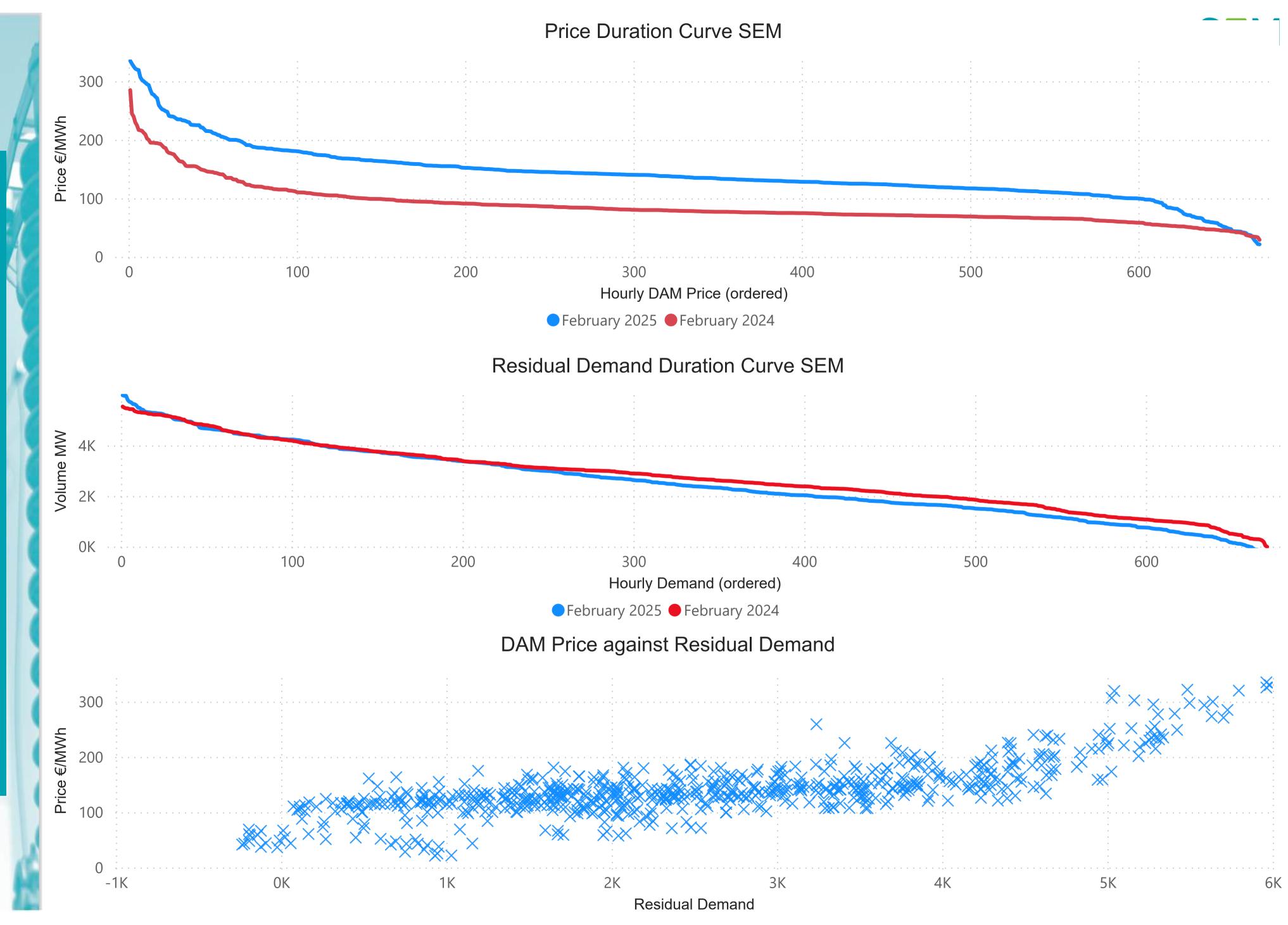
Price Duration

The price duration curve shows the hourly DAM prices across the month ordered from the largest to the smallest.

Residual Duration

The residual demand curve shows the ordered hourly demand level across the month which can't be met by renewable generation.

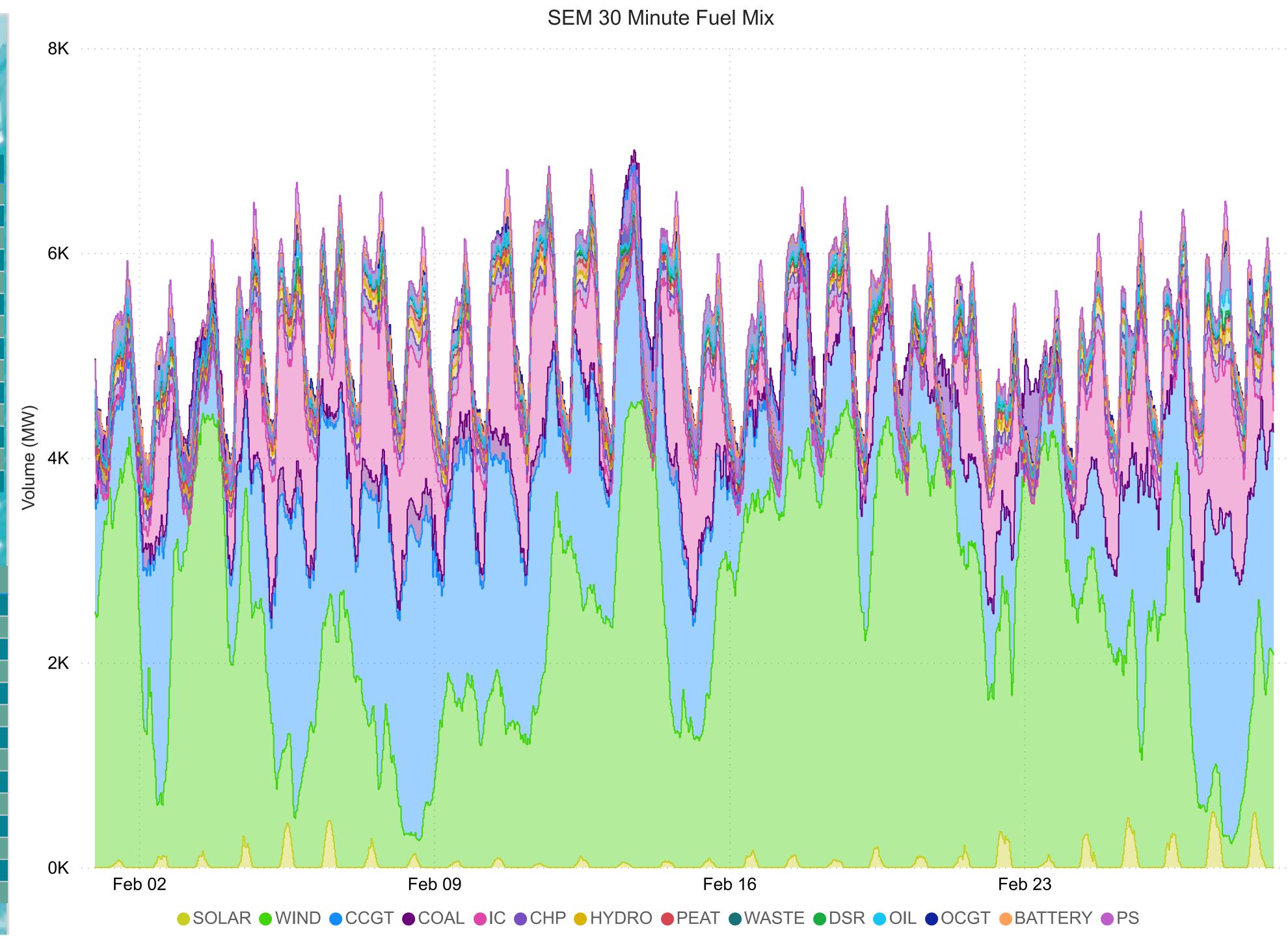
Price against Residual Demand Shows the residual demand for each period relative to the DAM price for that period.

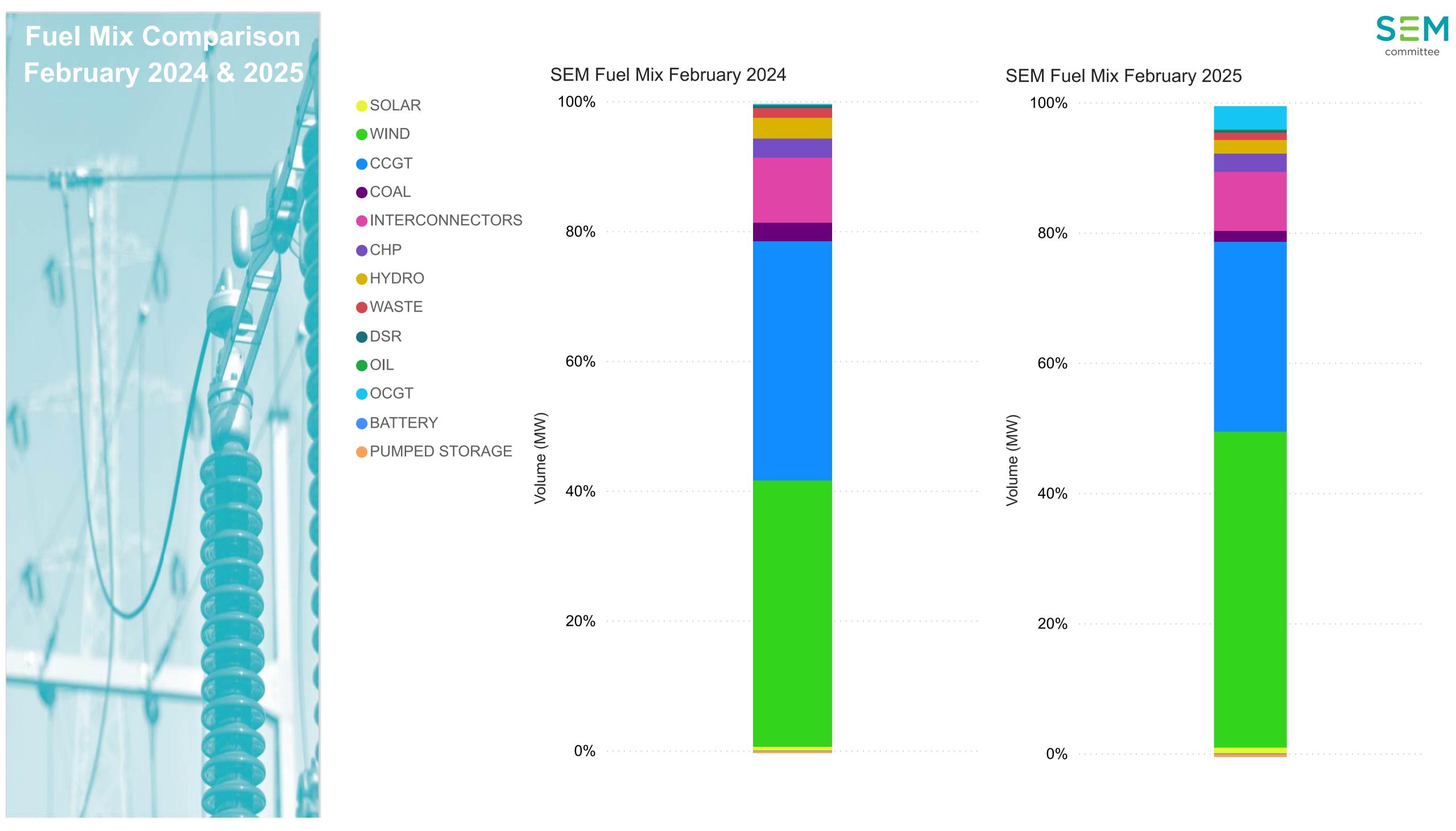


Fuel Mix February 2025

Fuel Type	Avg Monthly	Per. Monthly
WIND	2511	48.5%
CCGT	1505	29.1%
INTERCONNECTORS	469	9.1%
OCGT	185	3.6%
CHP	144	2.8%
HYDRO	108	2.1%
COAL	87	1.7%
PEAT	61	1.2%
WASTE	61	1.2%
SOLAR	46	0.9%
DSR	16	0.3%
OIL	8	0.2%
BATTERY	-7	-0.1%
PUMPED STORAGE	-21	-0.4%

Fuel Type	Max Monthly	Min Monthly			
WIND	4563	183			
CCGT	3215	626			
INTERCONNECTORS	1492	-1349			
SOLAR	547	0			
OCGT	510	143			
PUMPED STORAGE	291	-301			
COAL	270	0			
OIL	234	0			
BATTERY	215	-130			
CHP	170	75			
HYDRO	153	45			
PEAT	116	0			
WASTE	77	16			
DSR	30	0			
	1				

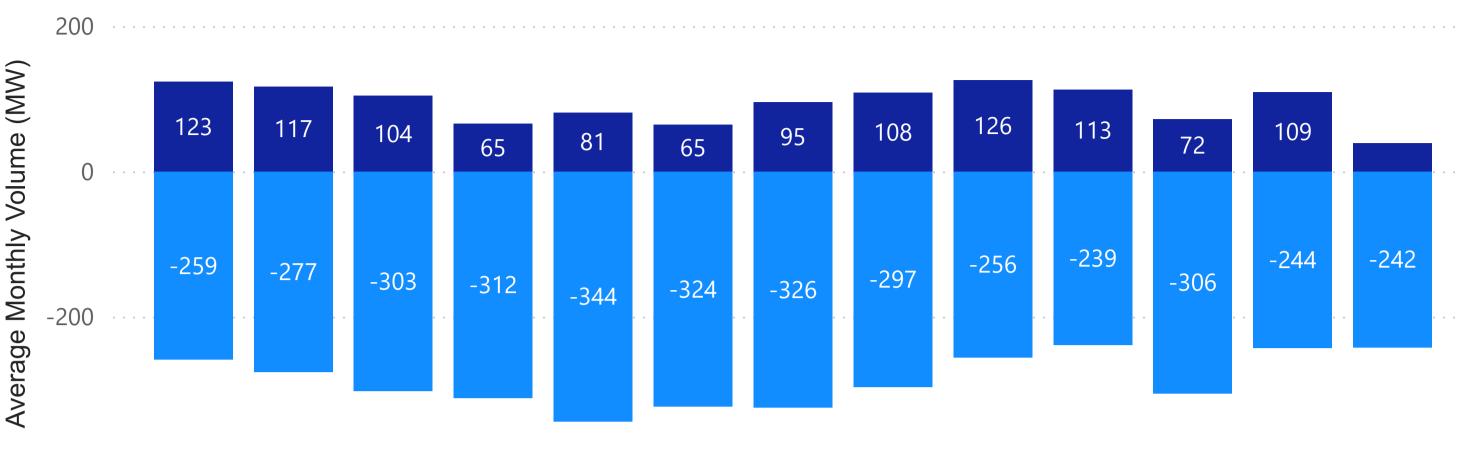




North-South Tie Line February 2025 Average Flow NI to ROI (MW) -243.50 Average Flow ROI to NI (MW) 109.22 Average Net Flow NI to ROI (MW) -214.89 -ve flow NI to ROI +ve flow ROI to NI

Average Flows N-S Tie Line Long Term Trend

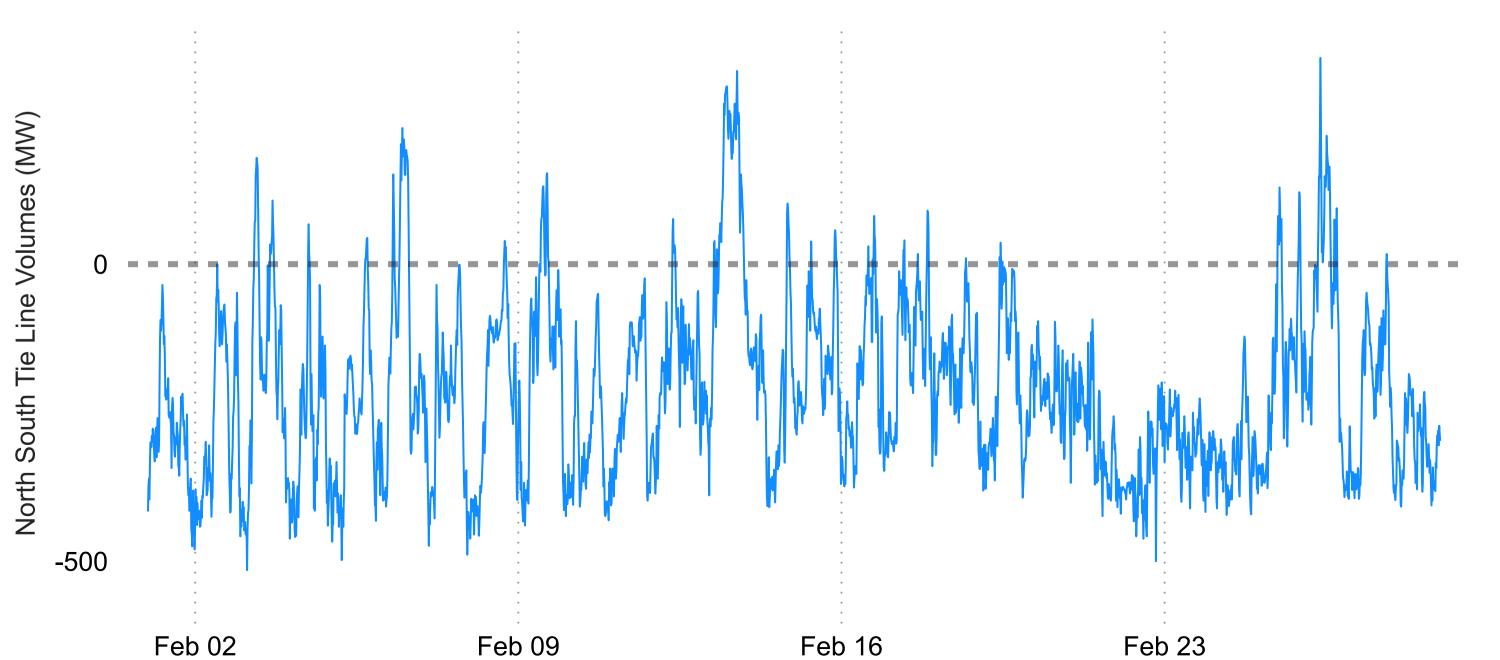




■ N-S Average
■ S-N Average

North South Tle Line Volumes 15 minute periods

2024-02 2024-03 2024-04 2024-05 2024-06 2024-07 2024-08 2024-09 2024-10 2024-11 2024-12 2025-02 2025-03



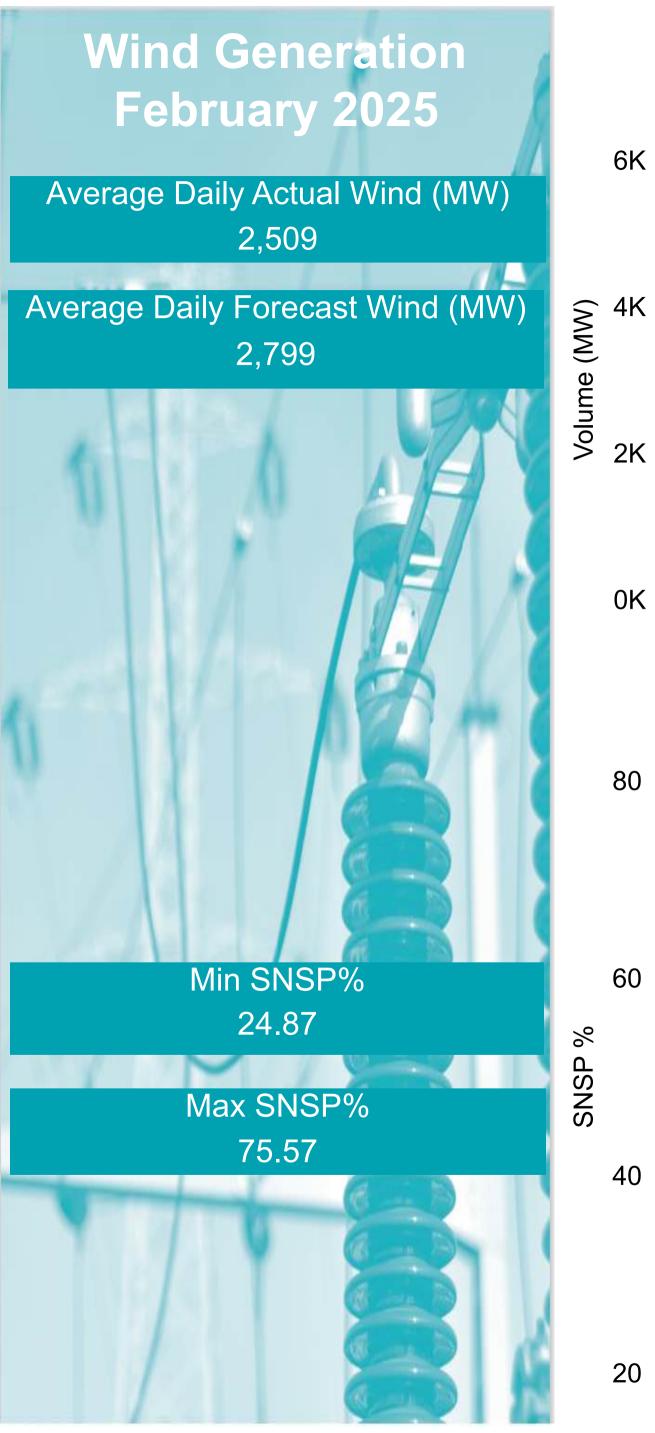
North South Tie Line

Flows across the N-S Tie Line were predominantly in the North to South direction this month. This has been the long term trend. There are persistence reasons for this trend as below:

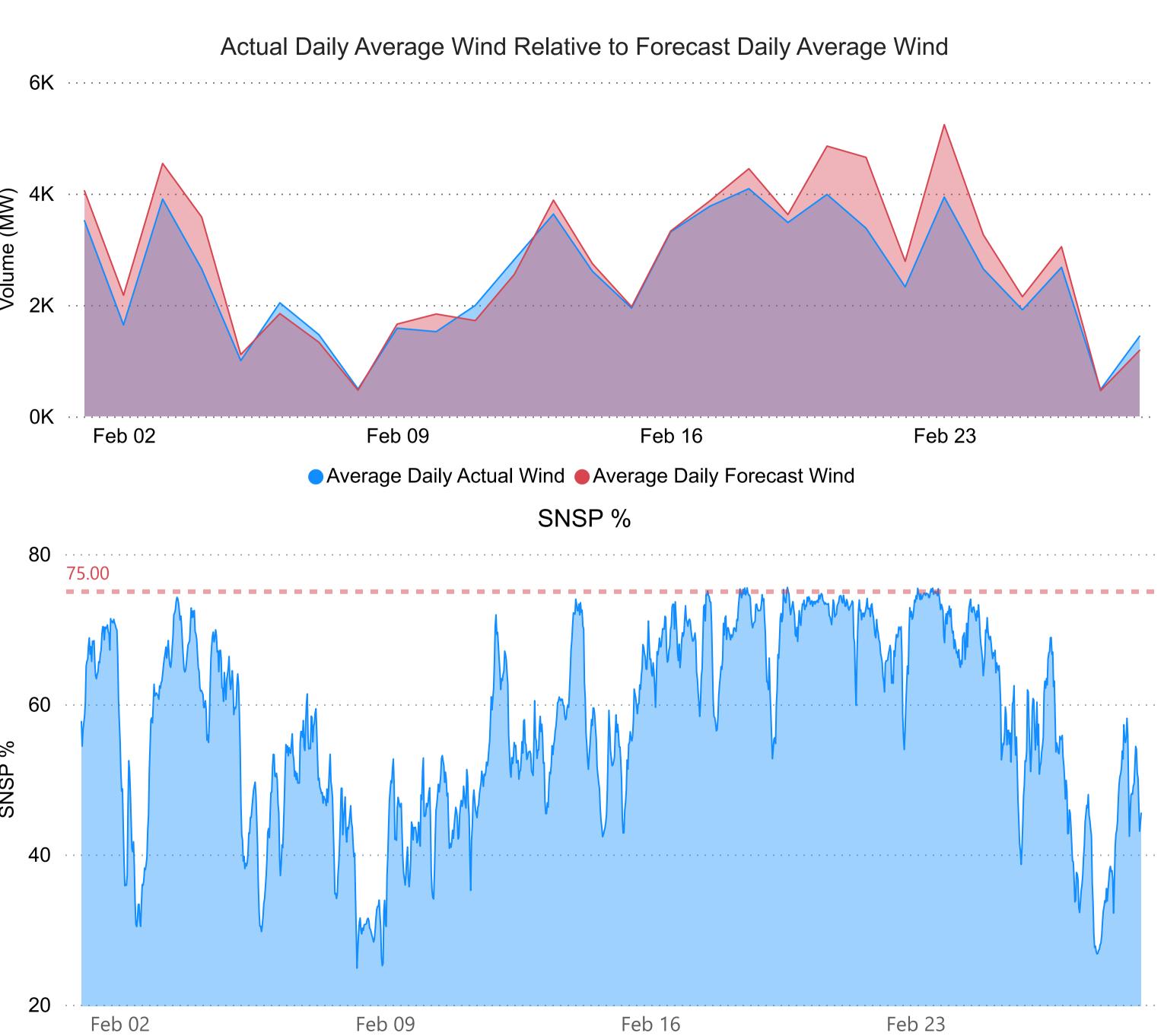
- •When the wind penetration is high in NI, a surplus of power can be formed as the TSO must run a minimal number of thermal units in NI to deal with operational constrains in the system.

 Exporting power southwards is a mechanism to avoid wind curtailment.
- •The demand in ROI has been growing at a faster pace than in NI.

But the introduction of Greenlink may alter flow patterns, as it directs flow from GB to IE and exhibits the lowest physical losses among interconnectors. Previously, Moyle maintained the lowest loss flow and received priority in dispatch.







Wind Generation

Wind generation hit a record level this month with a 29% increase compared to the previous month and a 25% increase from the same period last year.

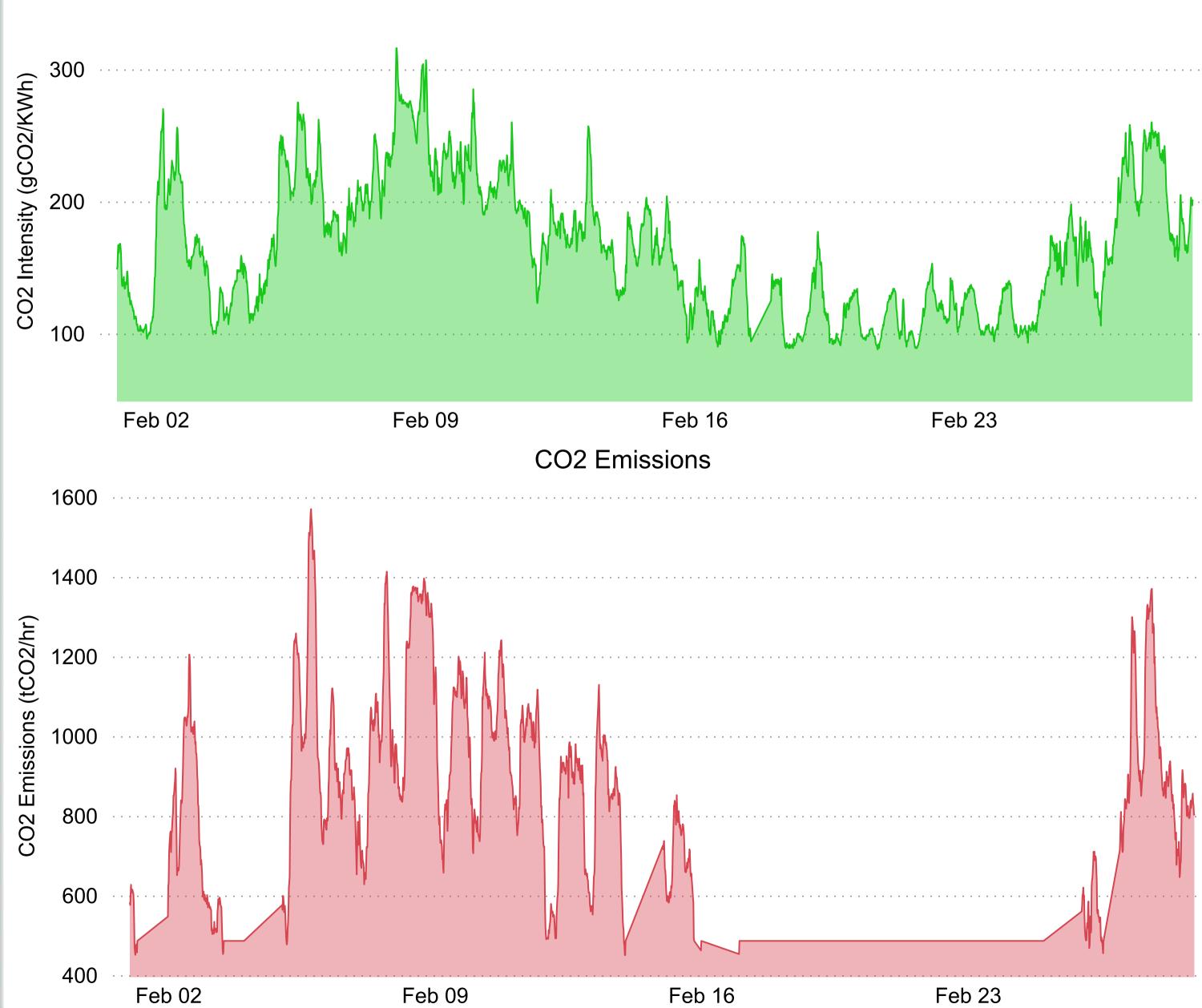
SNSP

SNSP is closely linked to wind generation and as such follows the same trend across the month.

February 2025 CO2 Intensity (gCO2/kWh) 164.09 Average 88 Lowest 316 Highest CO2 Emissions (tCO2/hr) 890 Average 450 Lowest 1570 Highest





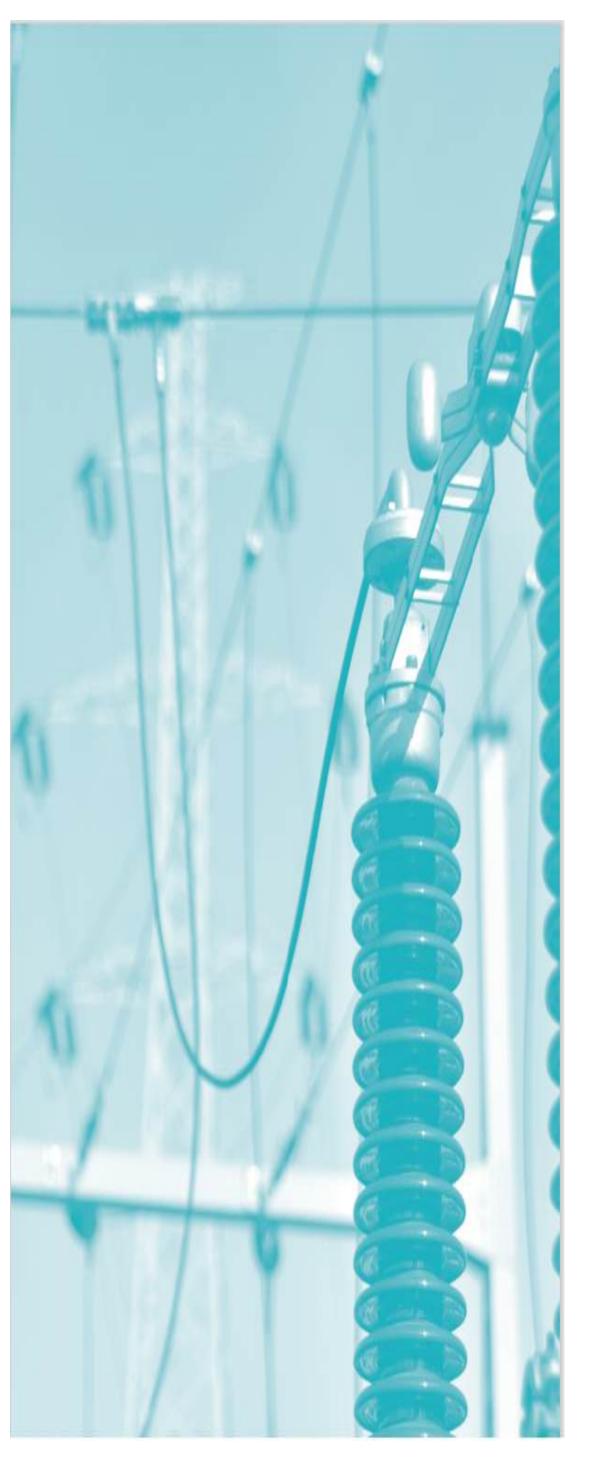


CO₂ Intensity

CO2 Intensity i.e. how many grams of carbon are emitted for every unit of electricity used, should be negatively correlated with the volume of wind output on the system.

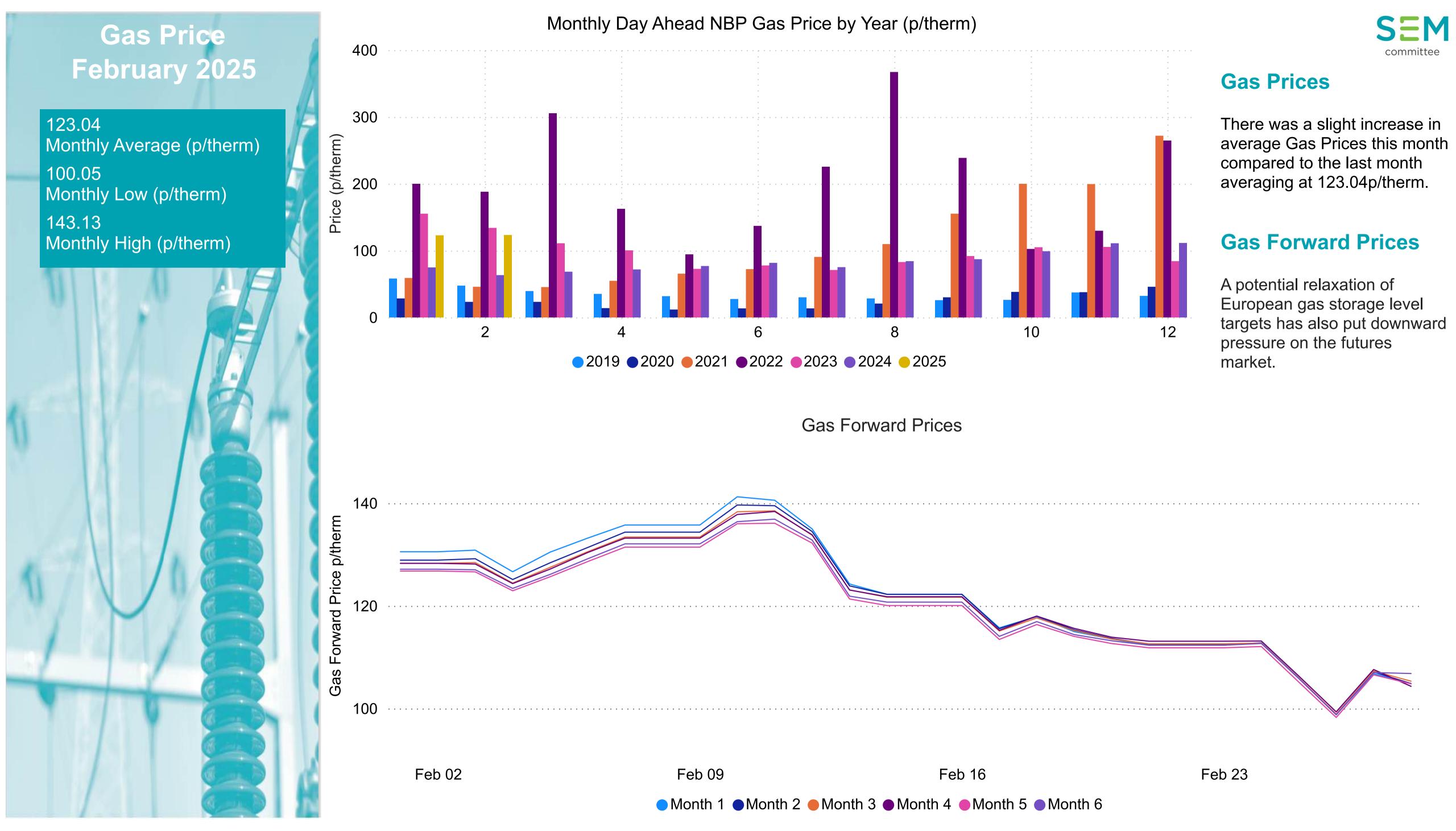
CO2 Emissions

CO2 emissions i.e. the estimated total CO2 emissions from all large power stations, follows the same trends as CO2 intensity levels over the course of the month.



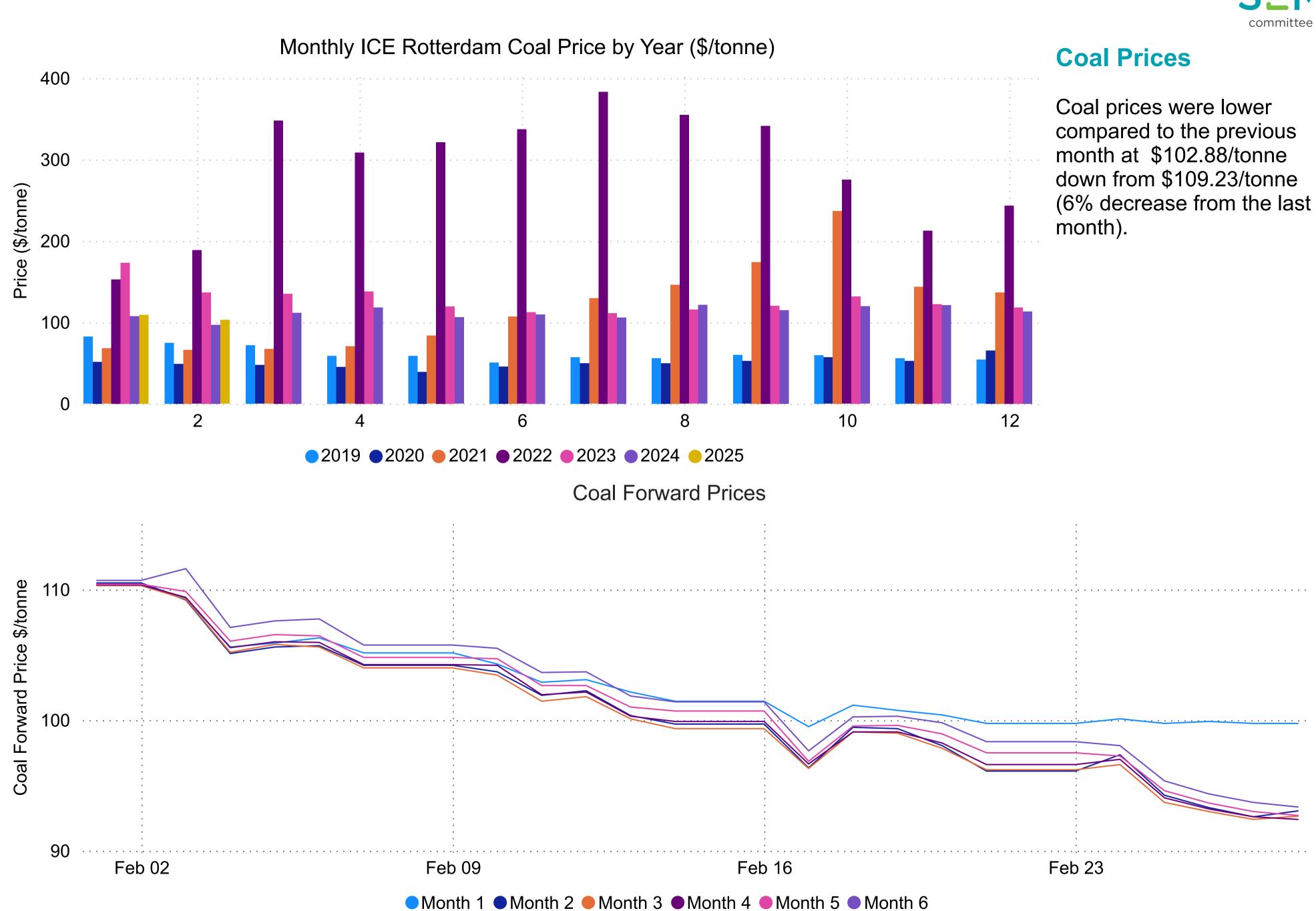


Fuel Costs and Spreads



Coal Price February 2025 Coal Prices Per Tonne \$102.88 Monthly Average \$99.50 Monthly Low \$110.50 Monthly High





Carbon Price February 2025

EU Carbon Prices (€/tonne)

€ 76.08

Monthly Average

€ 69.47

Monthly Low

€ 81.63

Monthly High



€ 51.72

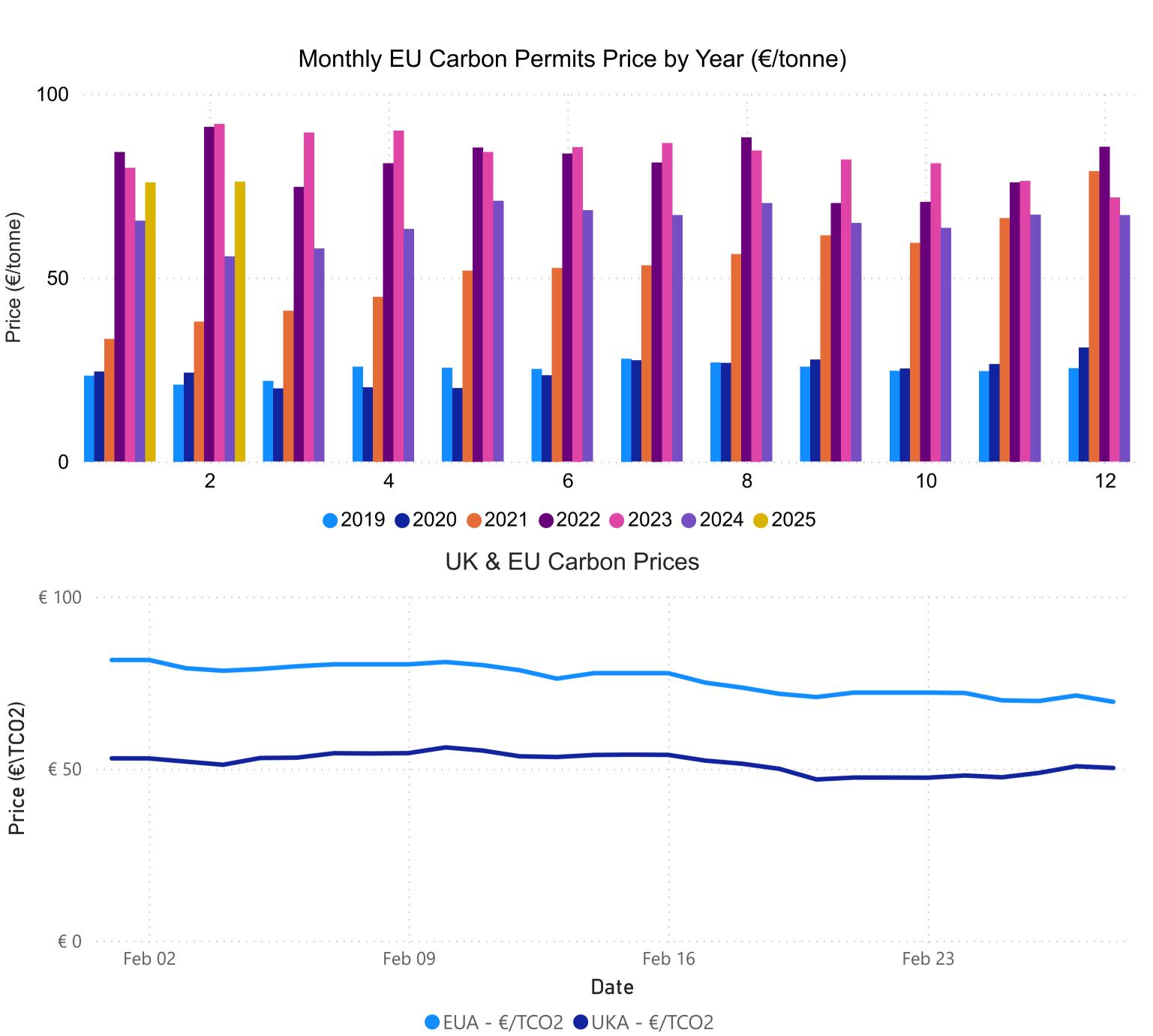
Monthly Average

€ 46.90

Monthly Low

€ 56.21

Monthly High





Carbon Prices

Carbon prices for this month averaged €76.08/tonne, with minimal change from the last month average. During the second half of the month, prices started decreasing once again to the pre January-2025 level.

Looking ahead, while supply is expected to remain strong, the demand side is projected to grow steadily due to the reduction in free allocations and the expansion of industry coverage. Overall, EUA prices are expected to experience a moderate recovery.

Spark Spreads February 2025

Clean Dark Spread measure the profitability of coal fired power generation based on the variable cost of inputs (coal and carbon credits) and the value of the output (electricity).

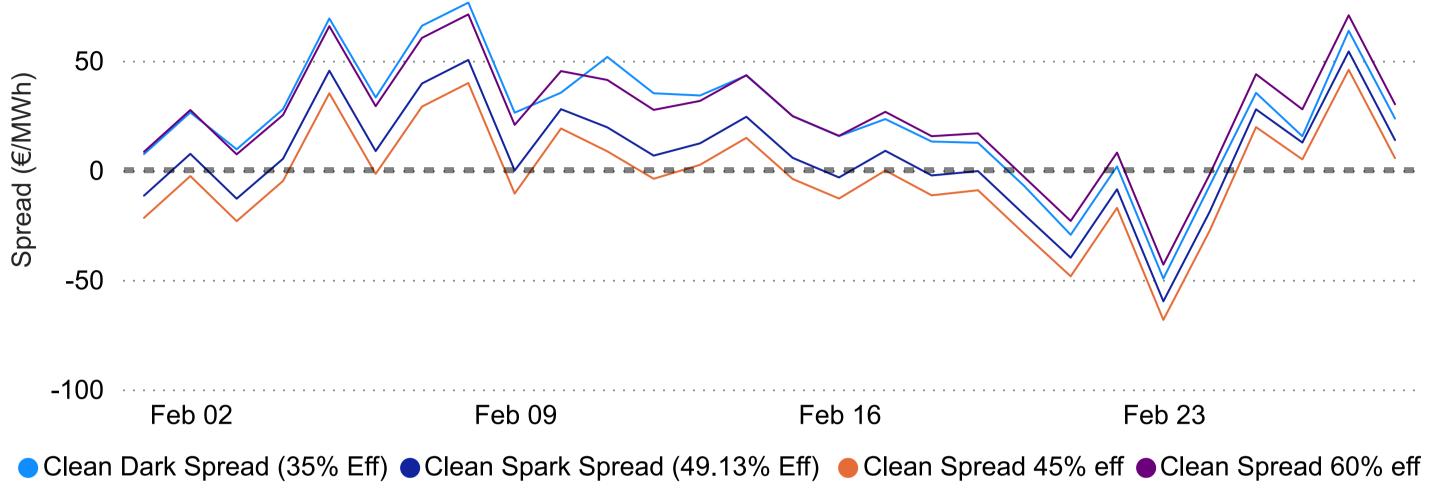
Clean Spark Spread is the difference between the price received by a generator for electricity produced and the cost of the natural gas + Carbon needed to produce that electricity.







Spreads were generally consistent across the month.



Clean Dark Spread (35% Eff) ● Clean Spark Spread (49.13% Eff) ● Clean Spread 45% eff ● Clean Spread 60% eff Clean Dark Spread v Clean Spark Spread (October 2018 Onwards)

