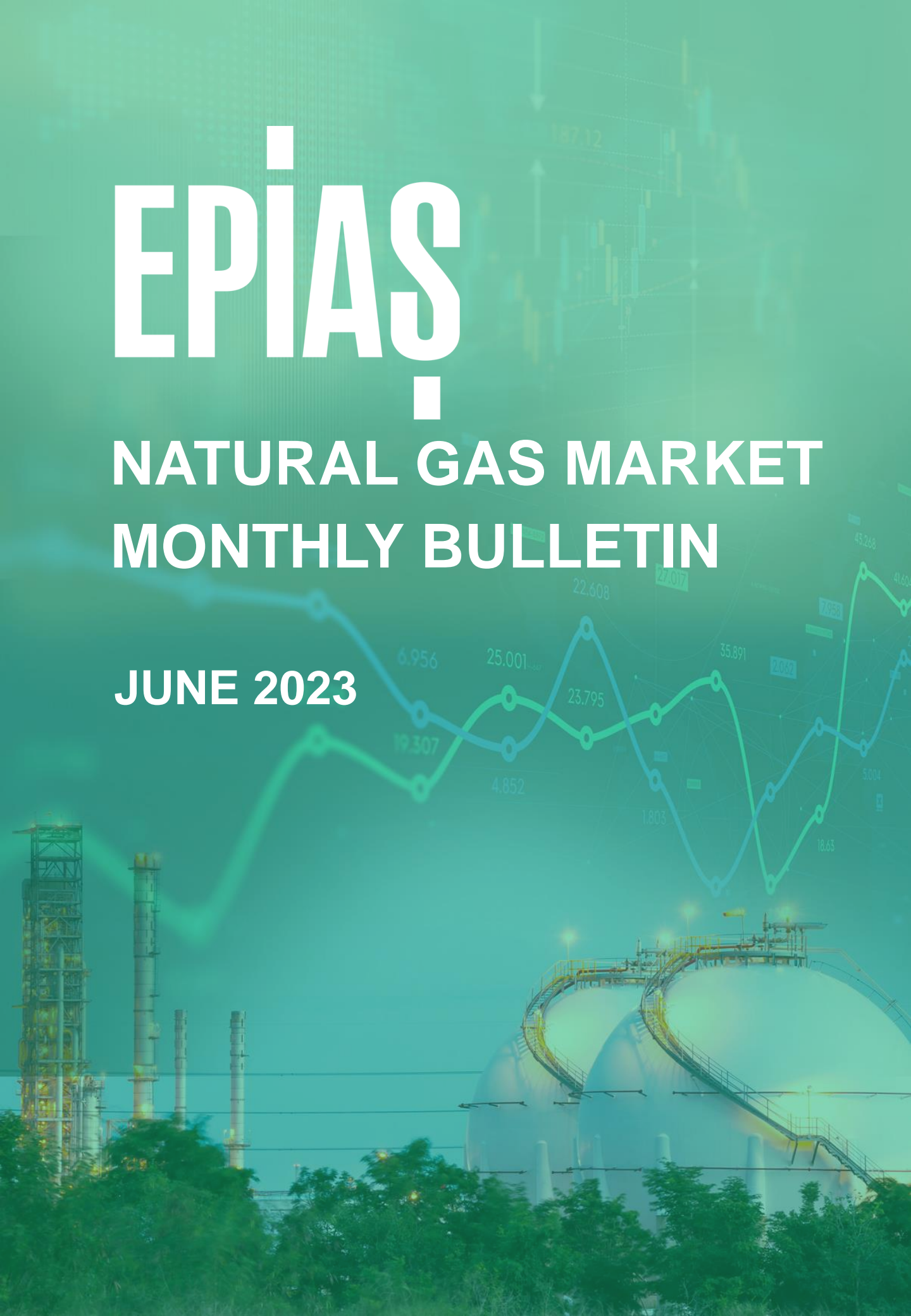


EPIAS

NATURAL GAS MARKET MONTHLY BULLETIN

JUNE 2023



SUMMARY DATA (1/2)

Arithmetic Means

	June 2023	May 2023	Monthly Change	June 2022	Annual Change
Number of Ordered Participants	8	10	-15.3%	7	17.7%
Number of Trades	10	10	-7.6%	4	122.5%
Number of Orders	21	25	-16.9%	13	57.0%
BGSP (TL/'000 Sm ³)	8.118	8.541	-4.9%	12.283	-33.9%
DRP (TL/'000 Sm ³)	8.546	8.990	-4.9%	12.666	-32.5%
BGPP (TL/'000 Sm ³)	8.973	9.440	-4.9%	13.073	-31.4%
Traded Volume (mio.Sm ³)	4,23	2,79	51.7%	4,54	-6.8%
Transaction Volume (TL)	36.905.074	25.198.676	46.5%	57.093.060	-35.4%
Gas Entry Volume (mio.Sm ³)	78,04	115,49	-32.4%	123,35	-36.7%
Gas Exit Volume (mio.Sm ³)	78,41	115,43	-32.1%	123,46	-36.5%
WRP (TL/'000 Sm ³)	-	-	-	-	-

Maximum / Minimum Levels

	June 2023		May 2023		June 2022	
	Max	Min	Max	Min	Max	Min
Number of Trades	17	4	18	4	7	2
Number of Ordered Participants	10	6	11	8	8	6
Number of Orders	38	10	37	14	23	8
BGSP (TL/'000 Sm ³)	8.716	7.589	8.779	7.668	12.615	11.640
DRP (TL/'000 Sm ³)	9.174	7.989	9.241	8.071	13.005	12.000
BGPP (TL/'000 Sm ³)	9.633	8.388	9.703	8.475	13.395	12.360
Traded Volume (mio.Sm ³)	9,86	0,44	7,45	0,65	15,52	0,14
Transaction Volume (TL)	87.445.400	3.520.589	67.125.556	5.345.322	196.908.105	1.781.710
Gas Exit Volume (mio.Sm ³)	108,09	40,26	149,80	79,29	142,30	97,70
Gas Entry Volume (mio.Sm ³)	113,72	39,56	150,79	77,34	152,04	100,59
WRP (TL/'000 Sm ³)	-	-	-	-	-	-

SUMMARY DATA (2/2)

Totals

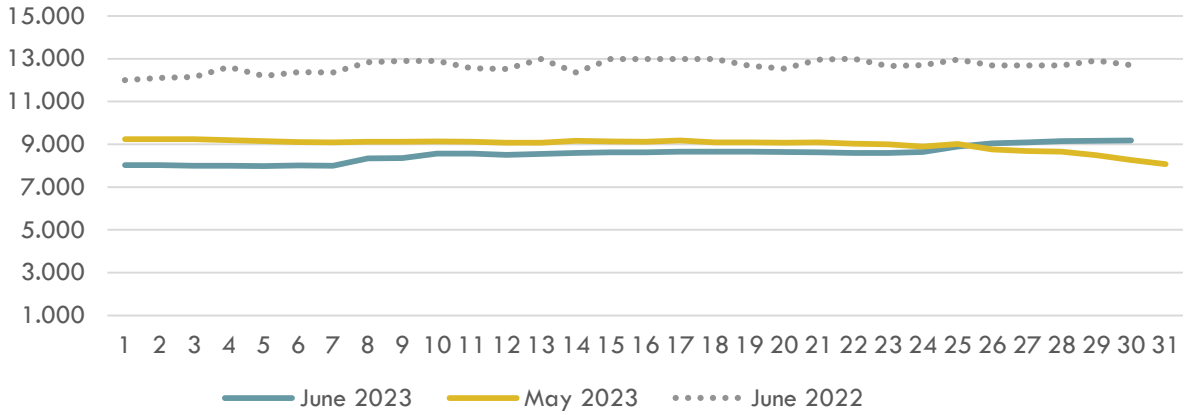
	June 2023	May 2023	Monthly Change	June 2022	Annual Change
Ratio of Natural Gas Based Generation to Total Electricity Generation (%)	8	17	-51.5%	19	-56.6%
Total Production of Natural Gas Based Power Plants (MWh)	1.959.497	4.231.477	-53.7%	4.906.834	-60.1%
Total Electricity Generation (MWh)	23.152.719	24.262.283	-4.6%	25.187.454	-8.1%
Number of Trades	287	321	-10.6%	129	122.5%
Number of Orders	625	777	-19.6%	398	57.0%
Traded Volume (mio.Sm ³)	126,96	86,47	46.8%	136,23	-6.8%
Transaction Volume (TL)	1.107.152.226	781.158.942	41.7%	1.712.791.812	-35.4%
Gas Entry Volume (mio.Sm ³)	2.341,10	3.580,32	-34.6%	3.700,43	-36.7%
Gas Exit Volume (mio.Sm ³)	2.352,25	3.578,43	-34.3%	3.703,67	-36.5%

Brent Oil and TTF Prices

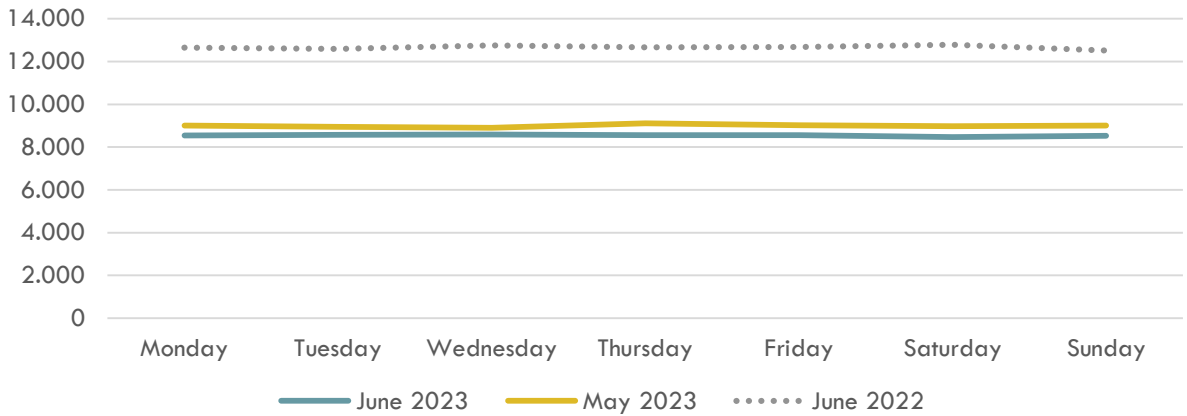
	June 2023	May 2023	Aylık Değişim	June 2022	Yıllık Değişim
Brent Oil (\$/bl)	74,98	75,69	-0.9%	117,50	-36.2%
TTF (€/MWh)	31,94	31,32	2.0%	102,67	-68.9%

PRICES (1/2)

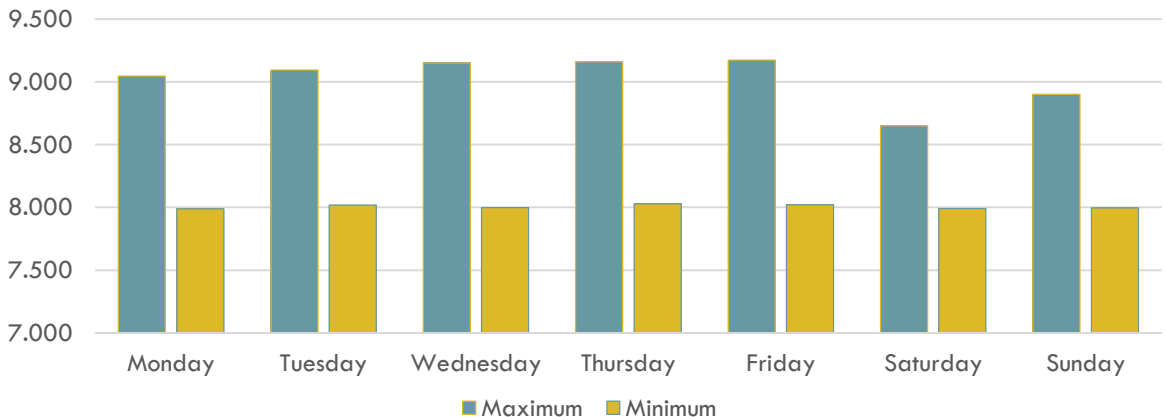
Natural Gas Market DRP (TL/'000 Sm³)



Natural Gas Market By Days DRP (TL/'000 Sm³)

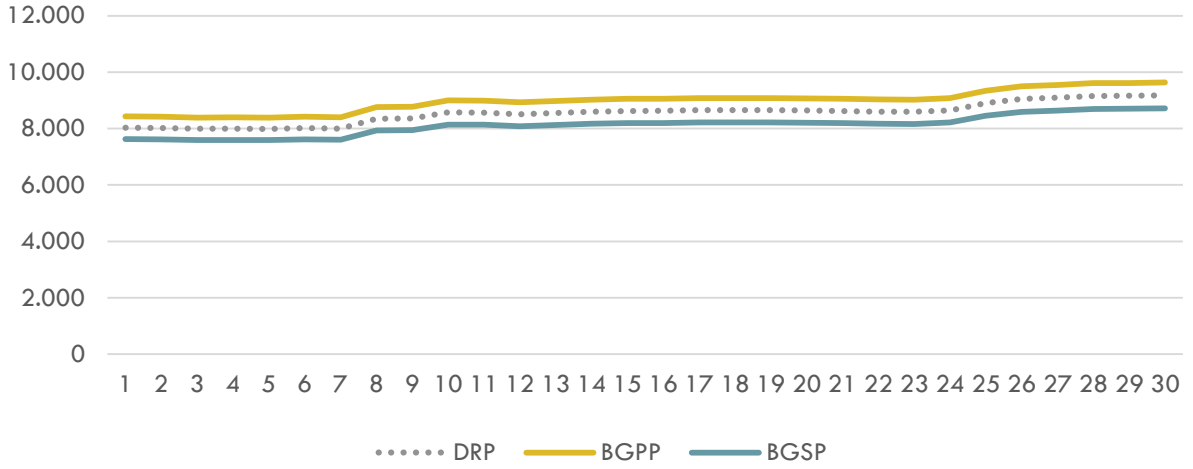


June 2023 Natural Gas Market By Days Max / Min DRP (TL/'000 Sm³)



PRICES (2/2)

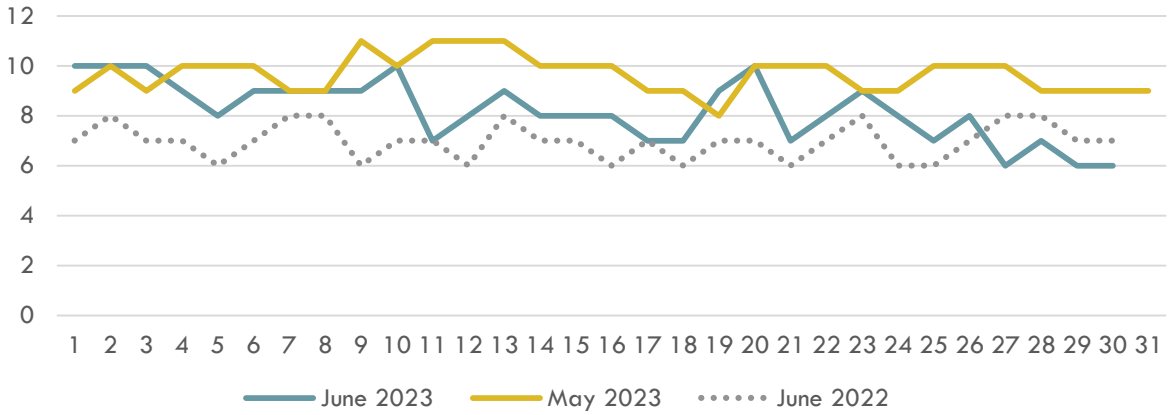
June 2023 DRP - BGPP - BGSP (TL/‘000 Sm³)



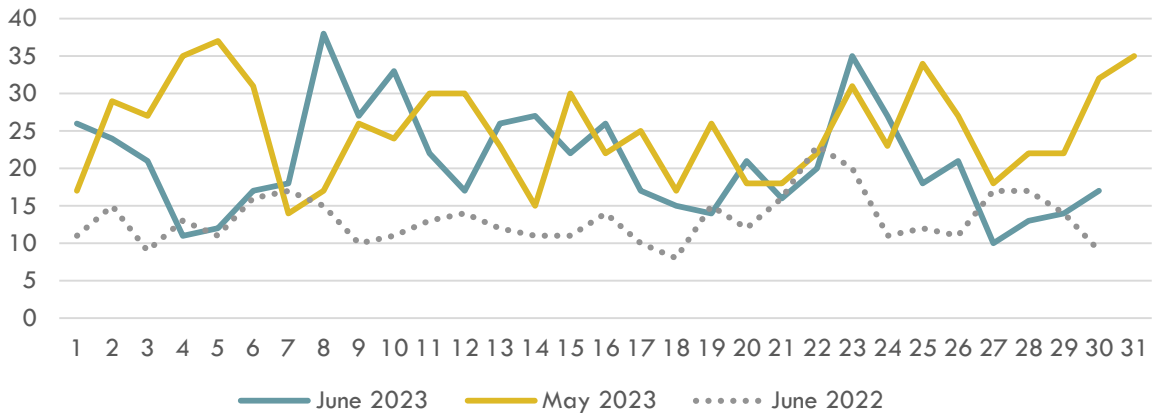
- ✓ The maximum DRP was 9.174 TL on 30 June 2023 Fri; the minimum DRP was realized at the level of 7.989 TL on 05 June 2023 Mon.
- ✓ The Maximum BGPP was 9.633 on 30 June 2023 Fri; the minimum BGPP was realized at the level of 8.388 TL on 05 June 2023 Mon.
- ✓ The maximum BGSP was 8.716 on 30 June 2023 Fri; the minimum BGSP was realized at the level of 7.589 TL on 05 June 2023 Mon.

ORDERS, TRADES, VOLUMES (1/3)

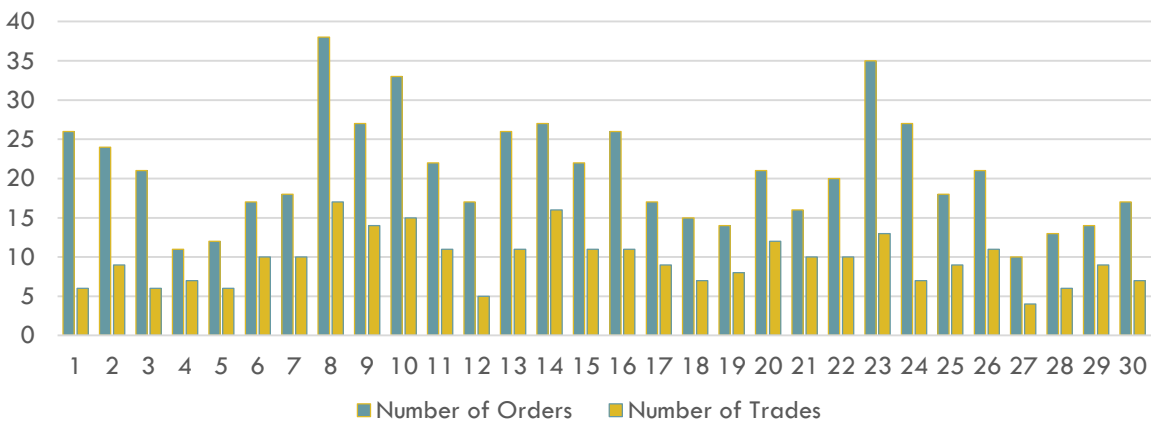
Natural Gas Market Number of Ordered Participants



Natural Gas Market Number of Orders

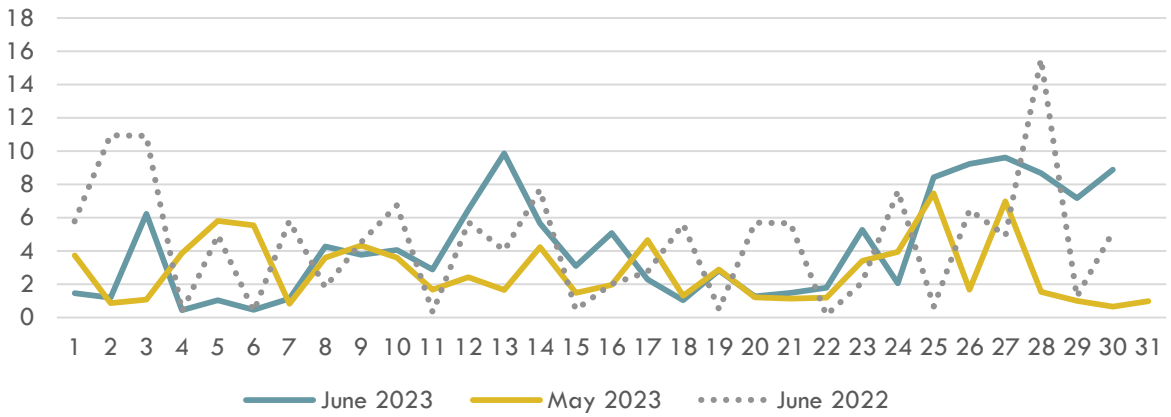


June 2023 Natural Gas Market Number of Orders and Trades

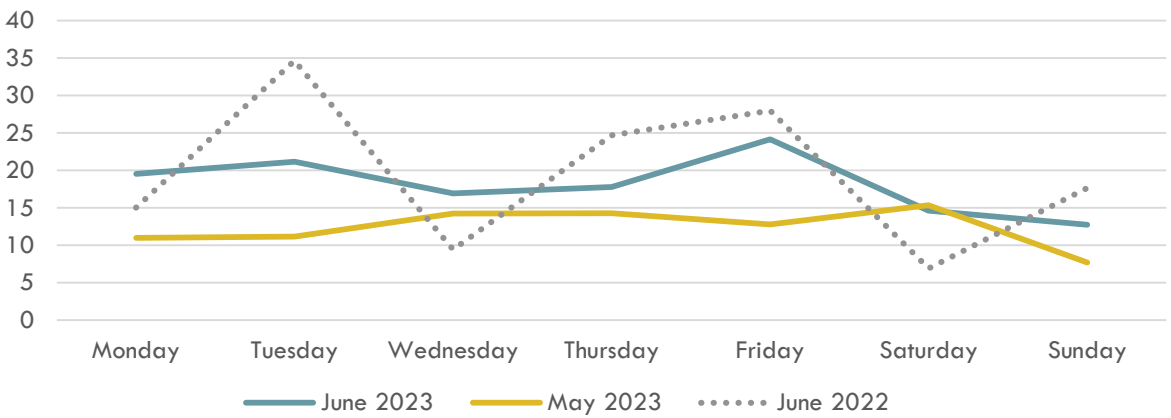


ORDERS, TRADES, VOLUMES (2/3)

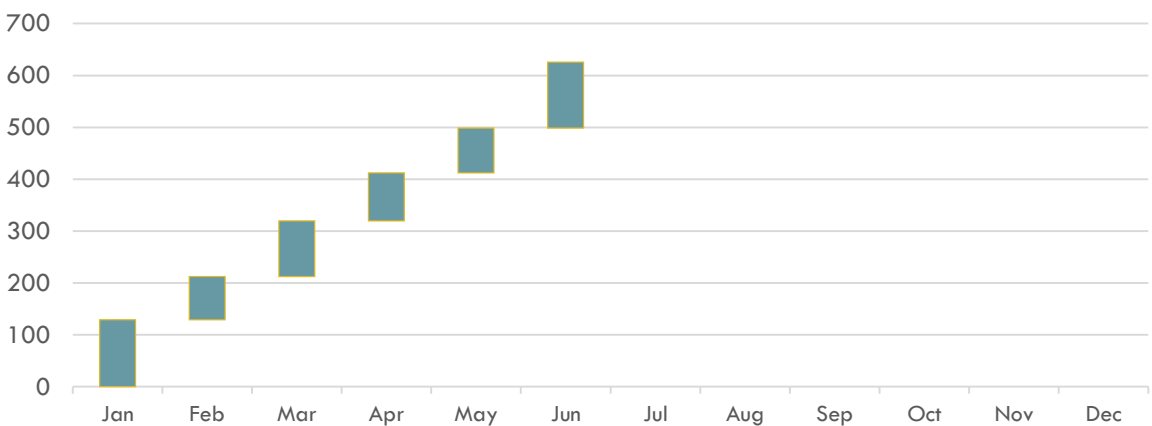
Natural Gas Market Trade Volume (mio.Sm³)



Natural Gas Market By Days Trade Volume (mio.Sm³)

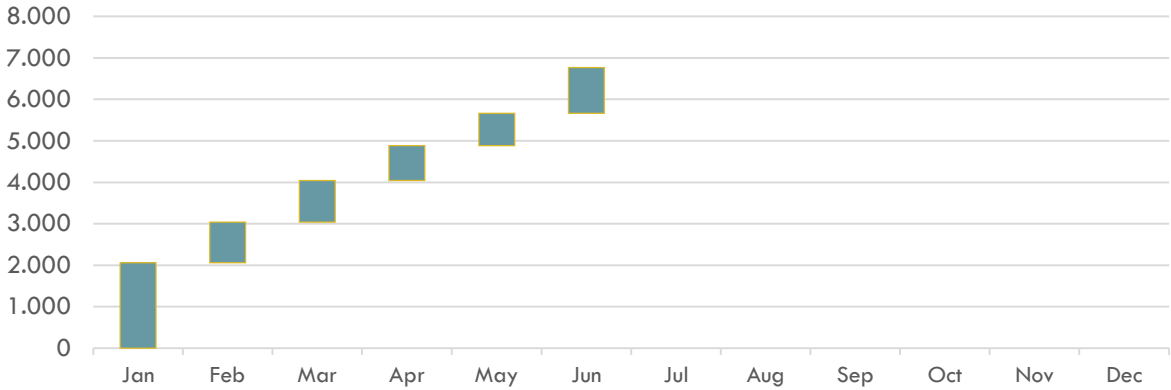


Natural Gas Market Annual Accumulated Trade Volume for 2023 (mio.Sm³)

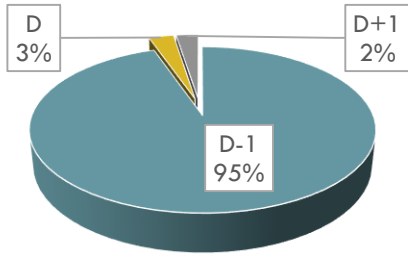


ORDERS, TRADES, VOLUMES (3/3)

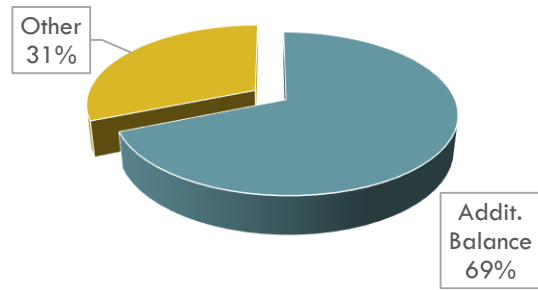
Natural Gas Market Annual Accumulated Transaction Volume for 2023 (Million TL)



Traded Volume of Daily Contracts for June 2023 Period by Sessions



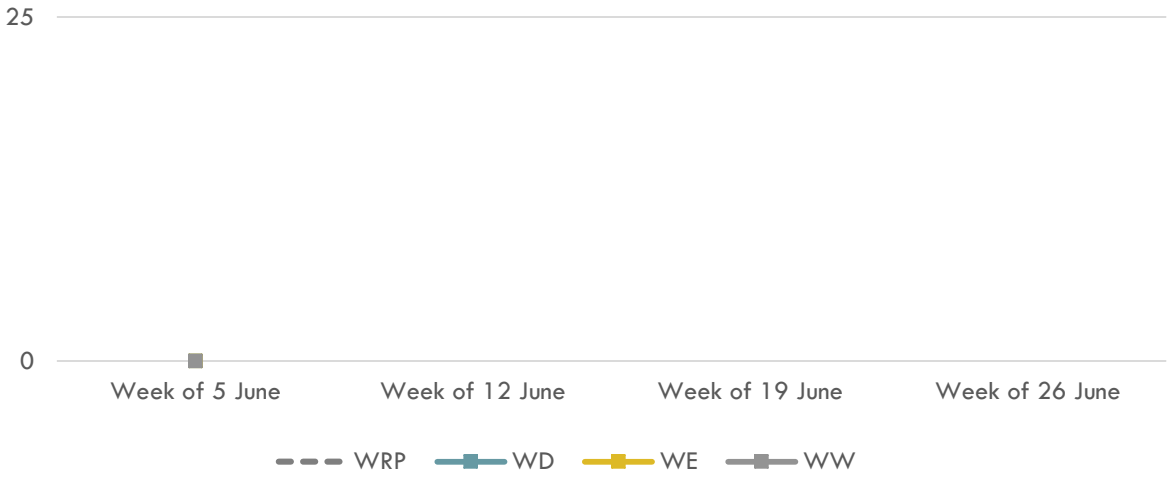
Additional Balancing Traded Volume for June 2023 Period



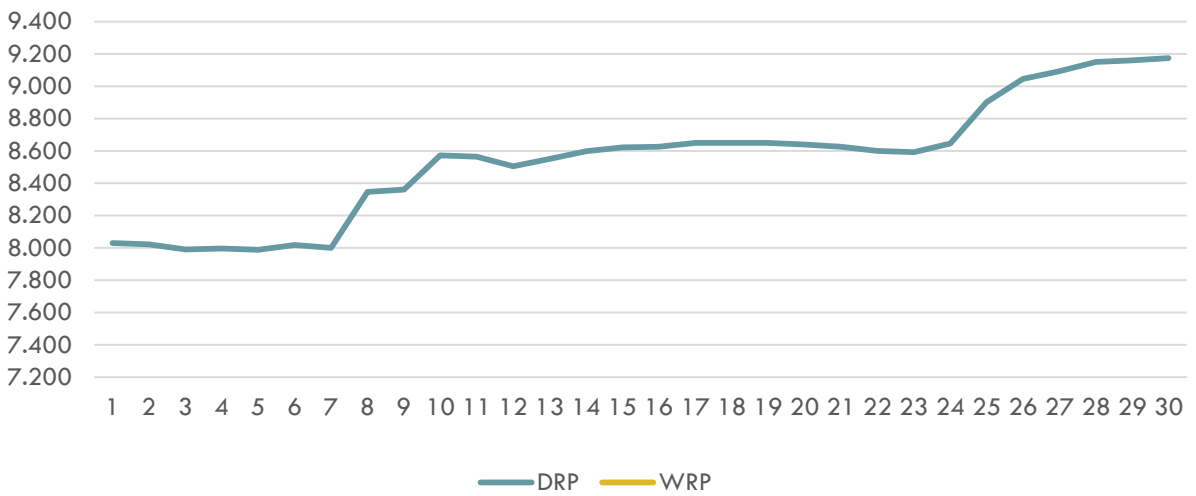
- ✓ The maximum total traded volume was 9.858 sm³ on 13 June 2023 Tue; the minimum total traded volume was realized at the level of 440 sm³ on 04 June 2023 Sun.
- ✓ The maximum total transaction volume was 87.445.400 TL on 27 June 2023 Tue; the minimum total transaction volume was realized at the level of 3.520.589 TL on 04 June 2023 Sun.
- ✓ The maximum d-1 traded volume was 9.745.000 sm³ on 13 June 2023 Tue; the minimum d-1 traded amount was realized at the level of 281.000 sm³ on 04 June 2023 Sun.
- ✓ The maximum d-1 traded volume was 86.045.700 TL on 27 June 2023 Tue; the minimum d-1 traded amount was realized at the level of 2.245.250 TL on 04 June 2023 Sun.
- ✓ The maximum d traded volume was 1.397.000 sm³ on 23 June 2023 Fri; the minimum d traded amount was realized at the level of 0 sm³ on 01 June 2023 Thu.
- ✓ The maximum d traded volume was 12.084.050 TL on 23 June 2023 Fri; the minimum d traded amount was realized at the level of 0 TL on 01 June 2023 Thu.
- ✓ The maximum d+1 traded volume was 1.030.000 sm³ on 25 June 2023 Sun; the minimum d+1 traded amount was realized at the level of 0 sm³ on 12 June 2023 Mon.
- ✓ The maximum d+1 traded volume was 8.918.500 TL on 25 June 2023 Sun; the minimum d+1 traded amount was realized at the level of 0 TL on 12 June 2023 Mon.
- ✓ The ratio of sgm compared to total consumption was realized at the level of 4,7% in June 2023.
- ✓ Sgm share in virtual trade was realized at 48,3% in June 2023.

WEEKLY PRODUCTS (1/2)

June 2023 WRP - WD - WE - WW (TL/'000 Sm³)

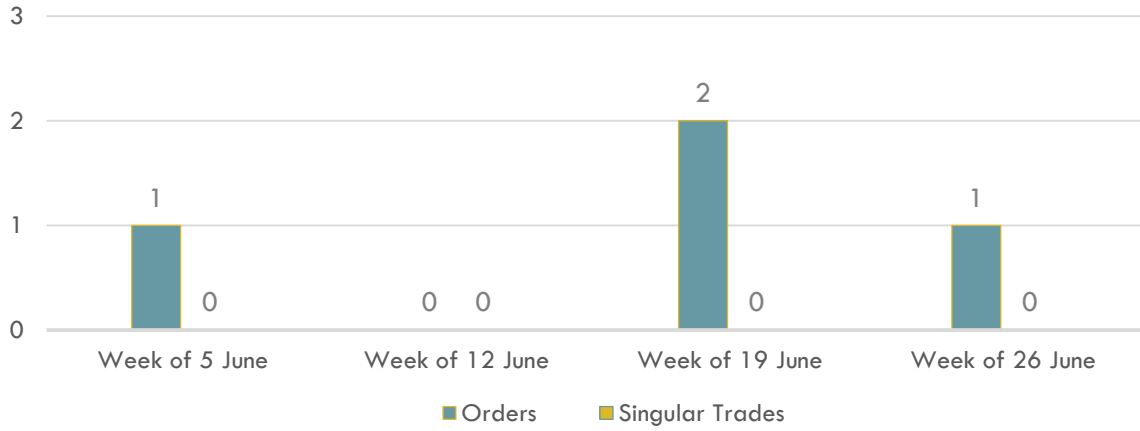


June 2023 DRP - WRP (TL/'000 Sm³)

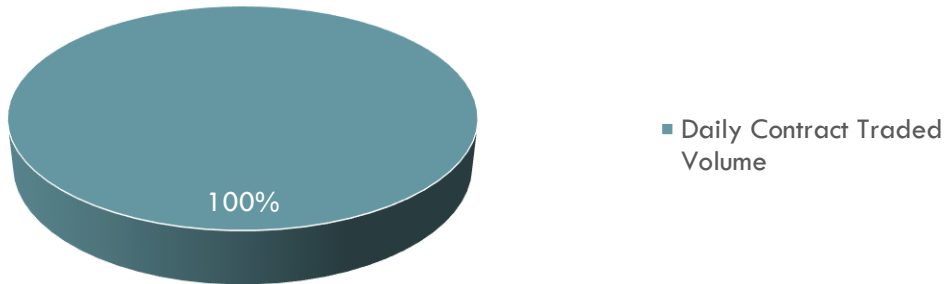


WEEKLY PRODUCTS (2/2)

June 2023 Weekly Products Number of Orders and Trades



June 2023 Traded Volume Distribution by Contract Type



SGM

Last 1 Year Trades

Period	Traded Volume (mio.Sm ³)	Traded Amount (TL)
Jun 2022	136,23	1.412.791.812
Jul 2022	114,06	1.161.807.407
Aug 2022	137,21	1.642.536.310
Sep 2022	61,47	812.459.966
Oct 2022	136,33	1.370.215.904
Nov 2022	80,68	840.078.378
Dec 2022	29,45	570.471.982
Jan 2023	128,85	1.259.193.549
Feb 2023	83,64	976.852.724
Mar 2023	107,25	1.007.828.484
Apr 2023	92,20	837.217.599
May 2023	86,47	781.158.942
Jun 2023	126,96	1.107.152.226

SGM's share in Total Cons. and Virtual Trade

Period	Total Consumption (%)	Virtual Trade (%)
Jun 2022	3,7%	28,2%
Jul 2022	3,4%	22,0%
Aug 2022	3,4%	29,6%
Sep 2022	1,9%	19,7%
Oct 2022	4,2%	27,9%
Nov 2022	1,9%	20,9%
Dec 2022	0,5%	5,1%
Jan 2023	2,0%	16,8%
Feb 2023	1,3%	11,3%
Mar 2023	2,0%	30,3%
Apr 2023	2,2%	27,1%
May 2023	2,3%	27,4%
Jun 2023	4,7%	48,3%

GAS FUTURES MARKET (1/1)

Daily Indicator Price For Contracts (TL)

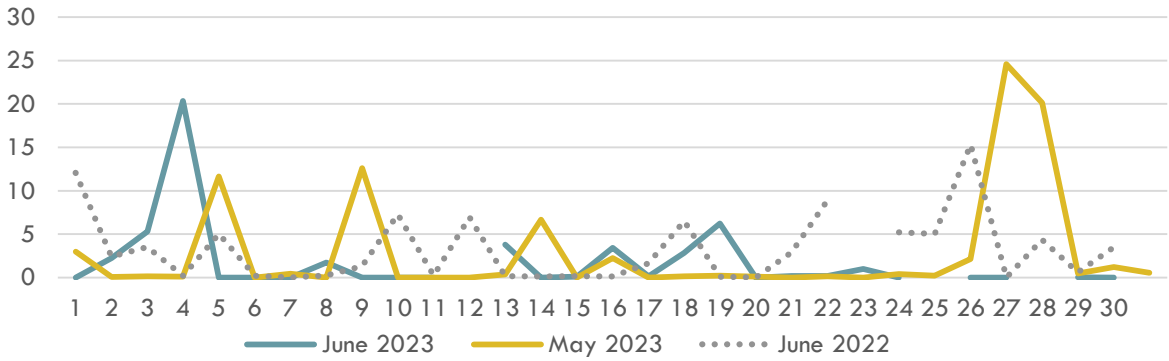
Contract Name	Average Daily Indicator Price (TL)	Minimum Daily Indicator Price (TL)	Maximum Daily Indicator Price (TL)
GM2307	19.015	19.015	19.015
GM2308	19.257	19.257	19.257
GM2309	20.225	20.225	20.225
GM2310	20.371	20.371	20.371
GM2311	26.069	26.069	26.069
GM2312	16.429	16.429	16.429
GM2401	21.094	21.094	21.094
GM2402	19.244	19.244	19.244
GM2403	23.432	23.432	23.432
GM2404	13.823	13.823	13.823
GM2405	12.804	12.804	12.804
GM2406	15.829	15.829	15.829
GM2407	14.022	14.022	14.022
GQ2303	19.491	19.491	19.491
GQ2304	20.901	20.901	20.901
GQ2401	21.301	21.301	21.301
GQ2402	14.137	14.137	14.137
GQ2403	14.362	14.362	14.362
GY24	22.591	22.591	22.591

Traded Volumes (mio.Sm3) and Traded Amounts (TL) For Contracts

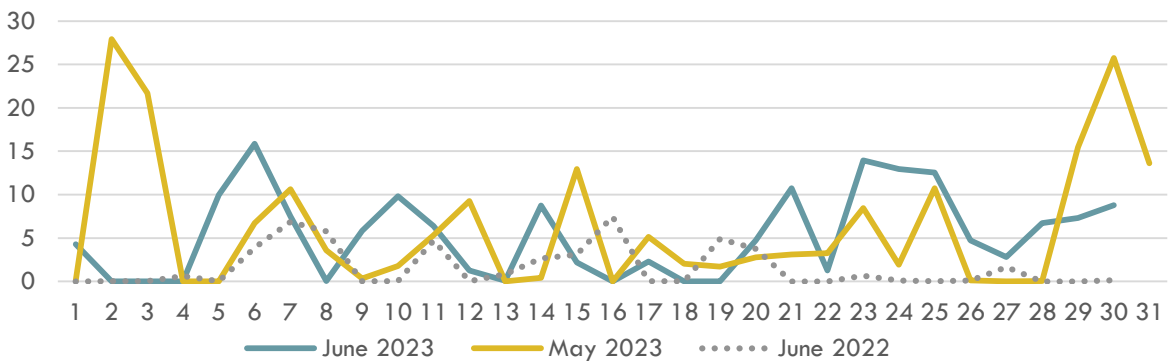
Contract Name	Traded Volume (mio.Sm3)	Traded Amount (TL)	Average Price (TL)
-	-	-	-

TRANSMISSION SYSTEM DATA (1/2)

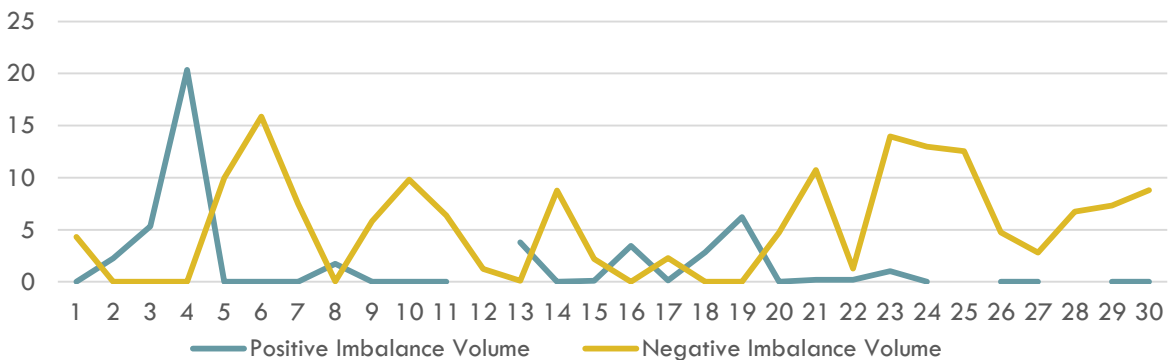
Natural Gas Market Positive Imbalance Volume (mio.Sm³)



Natural Gas Market Negative Imbalance Volume (mio.Sm³)



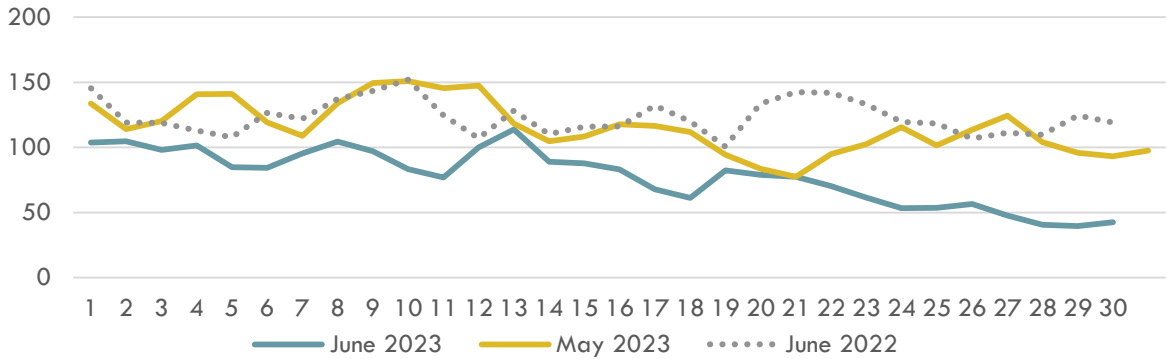
June 2023 Period Negative and Positive Imbalance Volume (mio.Sm³)



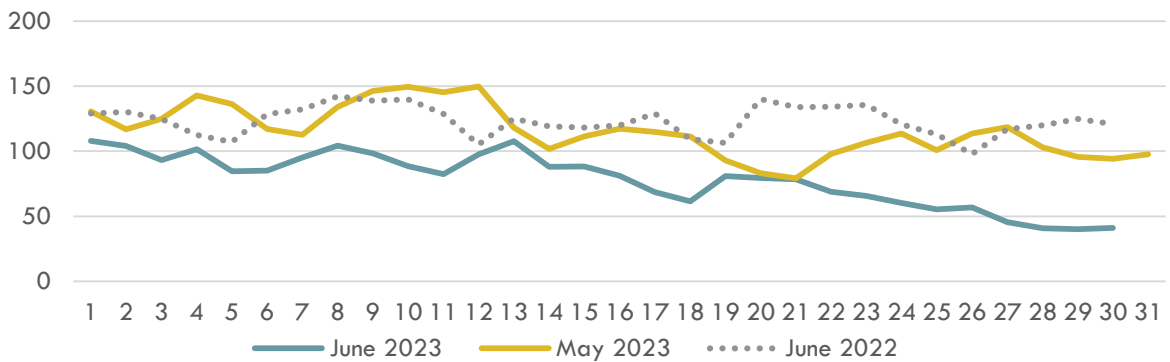
- ✓ The maximum positive imbalance volume was 20.337.228 sm³ on 04 June 2023 Sun; the minimum positive imbalance volume was realized at the level of 0 sm³ on 12 June 2023 Mon.
- ✓ The maximum negative imbalance volume was 15.852.631 sm³ on 06 June 2023 Tue; the minimum negative imbalance volume was realized at the level of 3.174 sm³ on 02 June 2023 Fri.

TRANSMISSION SYSTEM DATA (2/2)

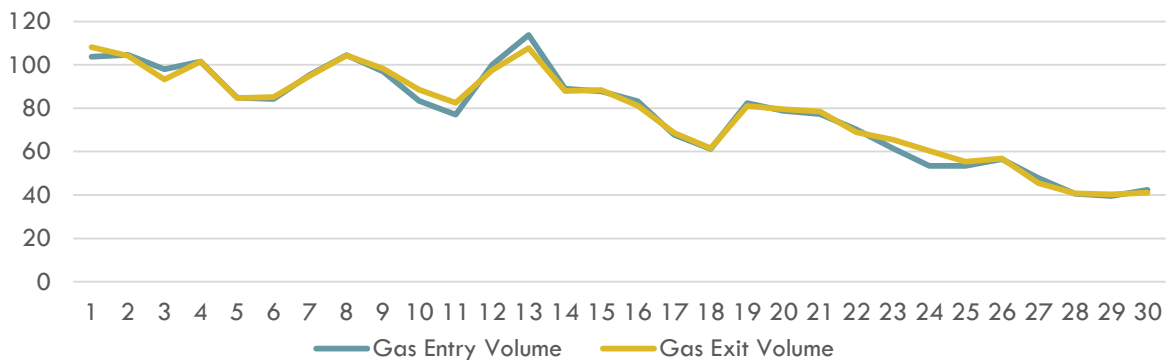
Natural Gas Market Gas Entry Volume (mio.Sm³)



Natural Gas Market Gas Exit Volume (mio.Sm³)



February 2021 Gas Entry and Exit Volume (mio.Sm³)



- ✓ Maximum gas entry volume realized on 13 June 2023 Tue was 113.719.524 sm³; minimum gas entry volume on 29 June 2023 Thu was 39.564.728 sm³ levels.
- ✓ Maximum gas exit volume realized on 01 June 2023 Thu was 108.088.296 sm³; minimum gas exit volume 29 June 2023 Thu was 40.264.781 sm³ levels.
- ✓ Maximum gas volume in stocks realized on 05 June 2023 Mon was 419.068.079 sm³; minimum stok gas volume 26 June 2023 Mon was 404.317.735 sm³ levels.

ADDITIONAL BALANCING TRANSACTIONS

Transactions with 1 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/'000 Sm ³)	Direction
01.06.2023	1.067	8.030	Purchase
02.06.2023	718	8.022	Purchase
03.06.2023	5.468	7.992	Purchase
04.06.2023	211	7.980	Purchase
05.06.2023	803	7.980	Purchase
06.06.2023	209	8.017	Purchase
07.06.2023	723	7.995	Purchase
08.06.2023	1.013	8.340	Purchase
09.06.2023	341	8.370	Purchase
10.06.2023	912	8.582	Purchase
11.06.2023	1.634	8.550	Purchase
12.06.2023	6.092	8.500	Purchase
13.06.2023	7.152	8.550	Purchase
14.06.2023	3.641	8.594	Purchase
15.06.2023	1.070	8.600	Purchase
16.06.2023	2.666	8.620	Purchase
17.06.2023	1.676	8.650	Purchase
18.06.2023	590	8.650	Purchase
19.06.2023	2.514	8.649	Purchase
20.06.2023	874	8.638	Purchase
21.06.2023	1.212	8.623	Purchase
22.06.2023	1.550	8.598	Purchase
23.06.2023	2.297	8.548	Purchase
24.06.2023	195	8.645	Purchase
25.06.2023	6.417	8.899	Purchase
26.06.2023	7.118	9.046	Purchase
27.06.2023	8.292	9.100	Purchase
28.06.2023	7.390	9.150	Purchase
29.06.2023	6.022	9.160	Purchase
30.06.2023	7.540	9.175	Purchase

Transactions with 2 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/'000 Sm ³)	Direction
-	-	-	-

Transactions with 3 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/'000 Sm ³)	Direction
-	-	-	-

Transactions with 4 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/'000 Sm ³)	Direction
-	-	-	-

- ✓ Additional balancing transactions with a maximum code of 1 were 8.292.000 sm³ on 27 June 2023 Tue; additional balancing transactions with a minimum code of 1 were realized at the level of 195.000 sm³ on 24 June 2023 Sat.
- ✓ In June, no additional balancing transaction code of 2 was realized.
- ✓ In June, no additional balancing transaction code of 3 was realized.
- ✓ In June, no additional balancing transaction code of 4 was realized.