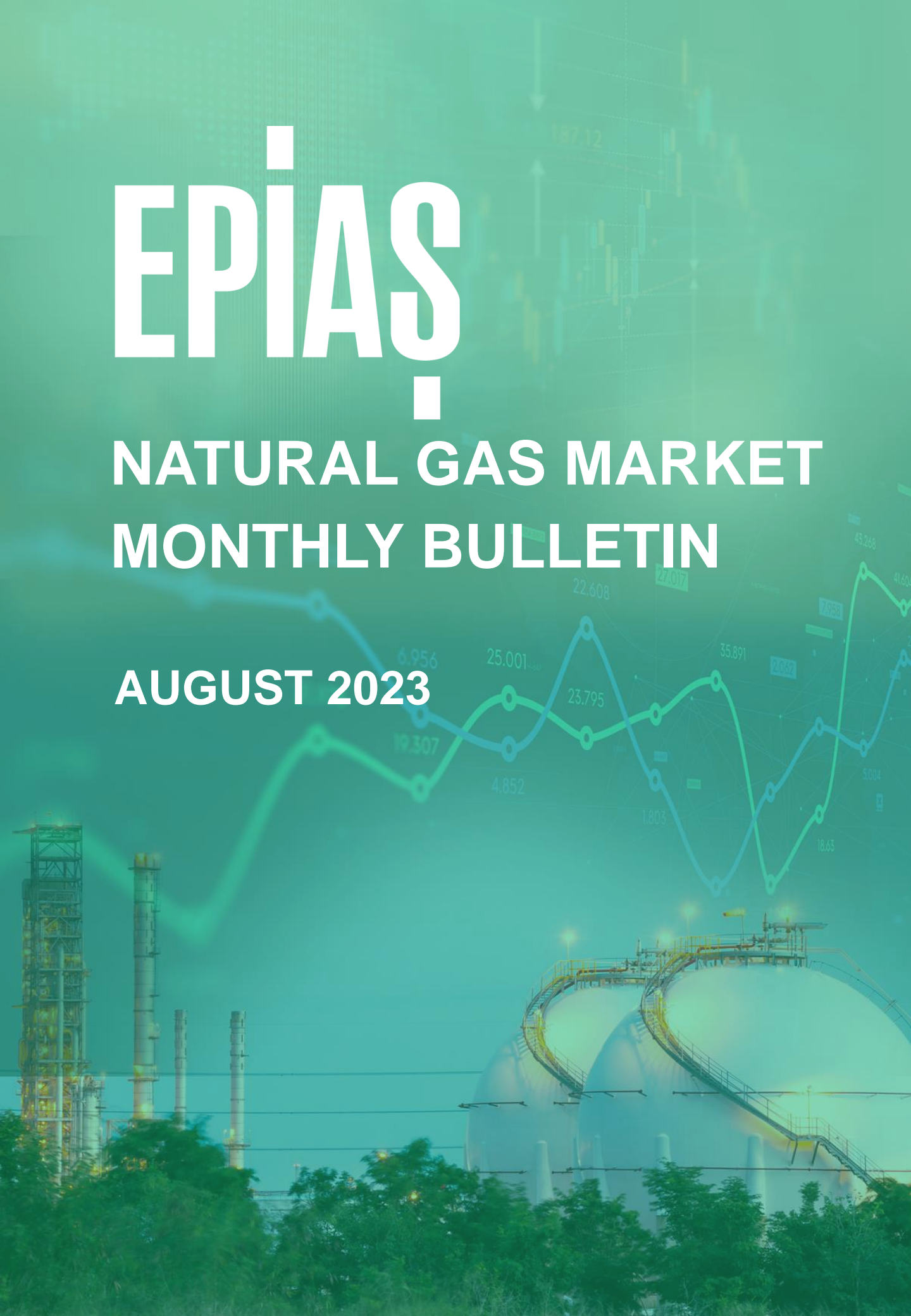


# EPIAS

## NATURAL GAS MARKET MONTHLY BULLETIN

AUGUST 2023



## SUMMARY DATA (1/2)

## Arithmetic Means

	August 2023	July 2023	Monthly Change	August 2022	Annual Change
Number of Ordered Participants	11	8	43.8%	10	14.2%
Number of Trades	13	9	57.2%	5	167.7%
Number of Orders	32	19	66.1%	17	86.9%
BGSP (TL/'000 Sm <sup>3</sup> )	9.150	9.019	1.4%	17.239	-46.9%
DRP (TL/'000 Sm <sup>3</sup> )	9.631	9.494	1.4%	17.780	-45.8%
BGPP (TL/'000 Sm <sup>3</sup> )	10.113	9.969	1.4%	18.314	-44.8%
Traded Volume (mio.Sm <sup>3</sup> )	4,10	3,50	17.1%	4,43	-7.3%
Transaction Volume (TL)	39.457.517	33.100.055	19.2%	78.791.494	-49.9%
Gas Entry Volume (mio.Sm <sup>3</sup> )	126,60	98,81	28.1%	127,13	-0.4%
Gas Exit Volume (mio.Sm <sup>3</sup> )	126,63	98,46	28.6%	127,15	-0.4%
WRP (TL/'000 Sm <sup>3</sup> )	-	-	-	-	-

## Maximum / Minimum Levels

	August 2023		July 2023		August 2022	
	Max	Min	Max	Min	Max	Min
Number of Trades	21	7	15	3	8	3
Number of Ordered Participants	14	9	10	5	12	6
Number of Orders	57	20	35	10	32	11
BGSP (TL/'000 Sm <sup>3</sup> )	9.611	8.631	9.547	8.740	18.591	16.705
DRP (TL/'000 Sm <sup>3</sup> )	10.116	9.085	10.049	9.200	19.166	17.221
BGPP (TL/'000 Sm <sup>3</sup> )	10.622	9.539	10.552	9.660	19.741	17.738
Traded Volume (mio.Sm <sup>3</sup> )	7,27	0,50	8,81	0,75	14,66	0,51
Transaction Volume (TL)	73.165.005	4.957.725	81.262.365	7.090.346	252.399.105	8.842.480
Gas Exit Volume (mio.Sm <sup>3</sup> )	135,97	98,11	115,06	52,83	144,83	94,94
Gas Entry Volume (mio.Sm <sup>3</sup> )	135,40	98,52	113,72	52,72	144,88	103,40
WRP (TL/'000 Sm <sup>3</sup> )	-	-	-	-	-	-

## SUMMARY DATA (2/2)

## Totals

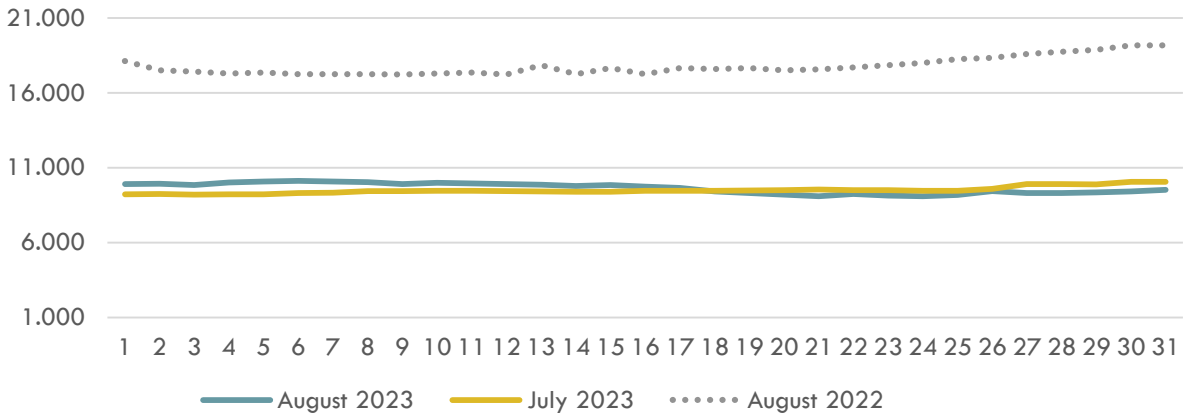
	August 2023	July 2023	Monthly Change	August 2022	Annual Change
Ratio of Natural Gas Based Generation to Total Electricity Generation (%)	<b>29</b>	21	36.8%	30	-6.0%
Total Production of Natural Gas Based Power Plants (MWh)	<b>8.872.682</b>	6.164.595	43.9%	8.913.179	-0.5%
Total Electricity Generation (MWh)	<b>31.064.327</b>	29.517.433	5.2%	29.323.790	5.9%
Number of Trades	<b>415</b>	264	57.2%	155	167.7%
Number of Orders	<b>985</b>	593	66.1%	527	86.9%
Traded Volume (mio.Sm <sup>3</sup> )	<b>127,13</b>	108,57	17.1%	137,21	-7.3%
Transaction Volume (TL)	<b>1.223.183.039</b>	1.026.101.711	19.2%	2.442.536.310	-49.9%
Gas Entry Volume (mio.Sm <sup>3</sup> )	<b>3.924,57</b>	3.063,10	28.1%	3.940,90	-0.4%
Gas Exit Volume (mio.Sm <sup>3</sup> )	<b>3.925,68</b>	3.052,16	28.6%	3.941,63	-0.4%

## Brent Oil and TTF Prices

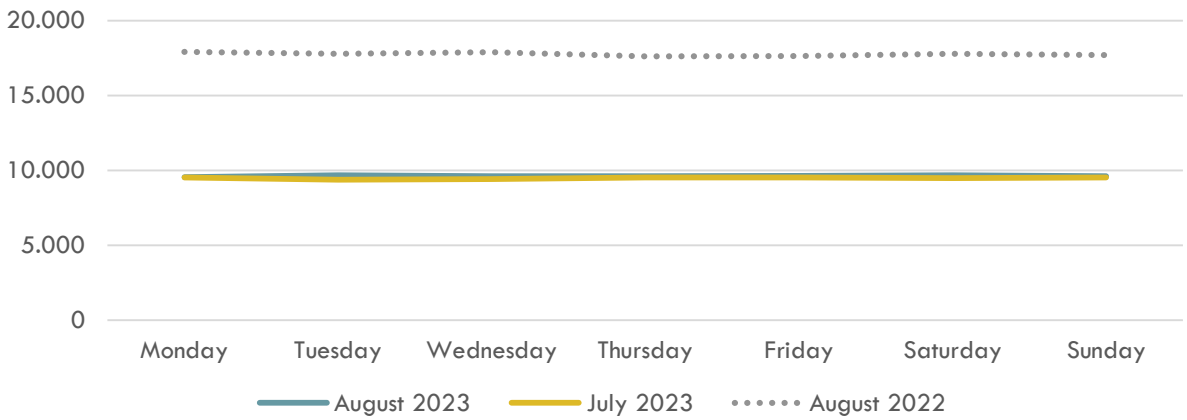
	August 2023	July 2023	Aylık Değişim	August 2022	Yıllık Değişim
Brent Oil (\$/bl)	<b>85,10</b>	80,38	5.9%	97,52	-12.7%
TTF (€/MWh)	<b>33,11</b>	29,06	13.9%	234,98	-85.9%

PRICES (1/2)

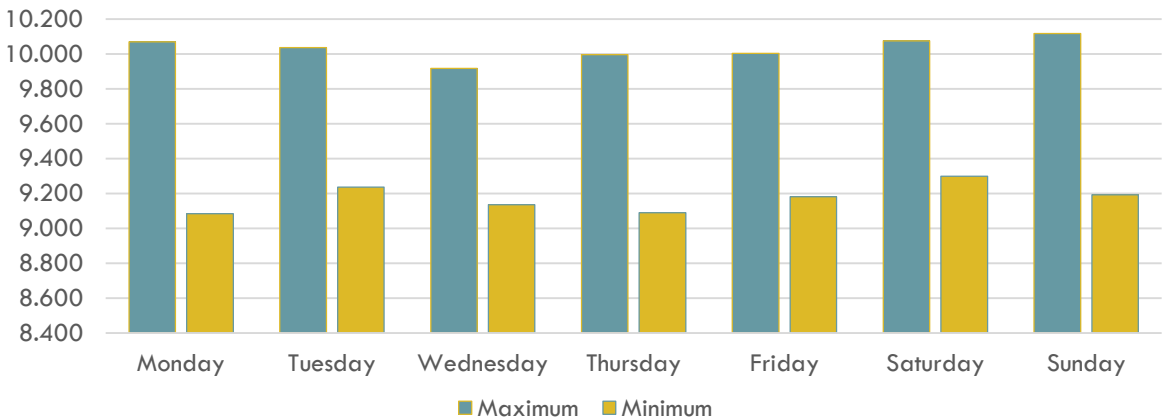
Natural Gas Market DRP (TL/'000 Sm<sup>3</sup>)



Natural Gas Market By Days DRP (TL/'000 Sm<sup>3</sup>)

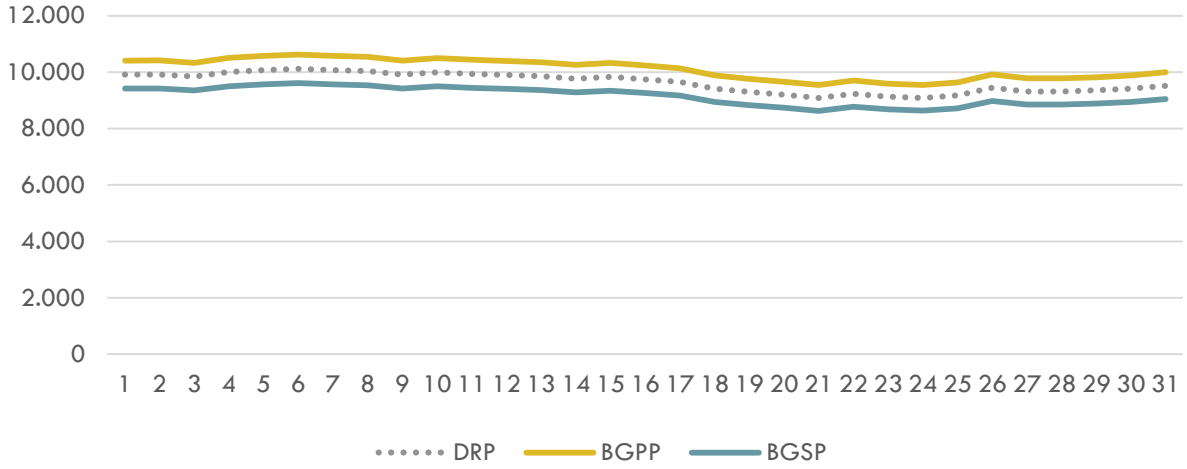


August 2023 Natural Gas Market By Days Max / Min DRP (TL/'000 Sm<sup>3</sup>)



**PRICES (2/2)**

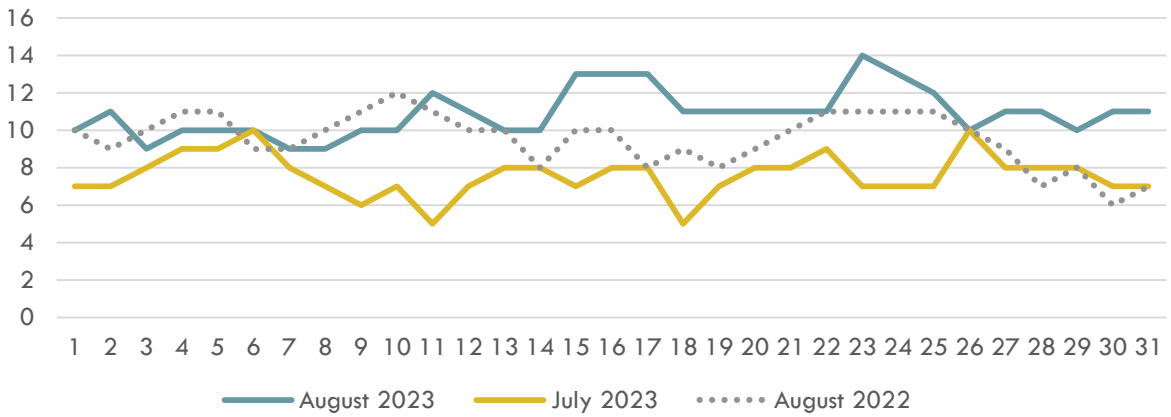
August 2023 DRP - BGPP - BGSP (TL/'000 Sm<sup>3</sup>)



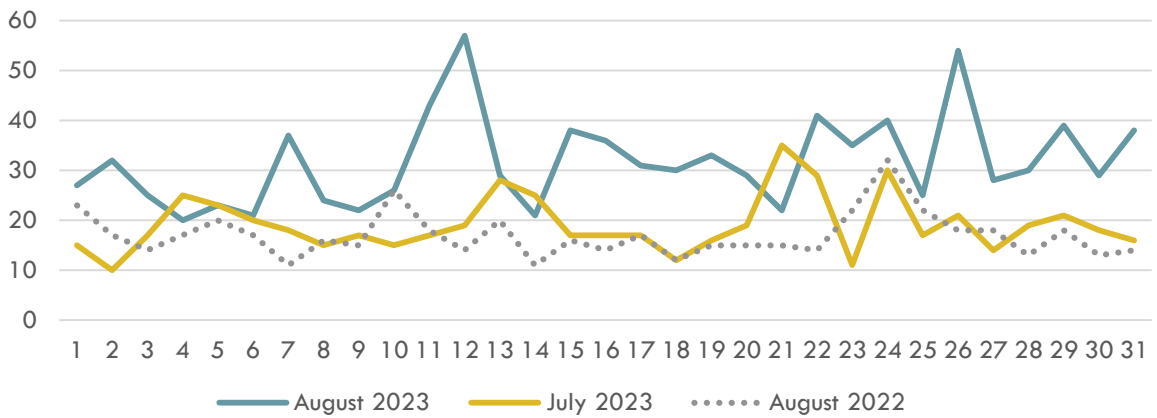
- ✓ The maximum DRP was 10.116 TL on 06 August 2023 Sun; the minimum DRP was realized at the level of 9.085 TL on 21 August 2023 Mon.
- ✓ The Maximum BGPP was 10.622 on 06 August 2023 Sun; the minimum BGPP was realized at the level of 9.539 TL on 21 August 2023 Mon.
- ✓ The maximum BGSP was 9.611 on 06 August 2023 Sun; the minimum BGSP was realized at the level of 8.631 TL on 21 August 2023 Mon.

**ORDERS, TRADES, VOLUMES (1/3)**

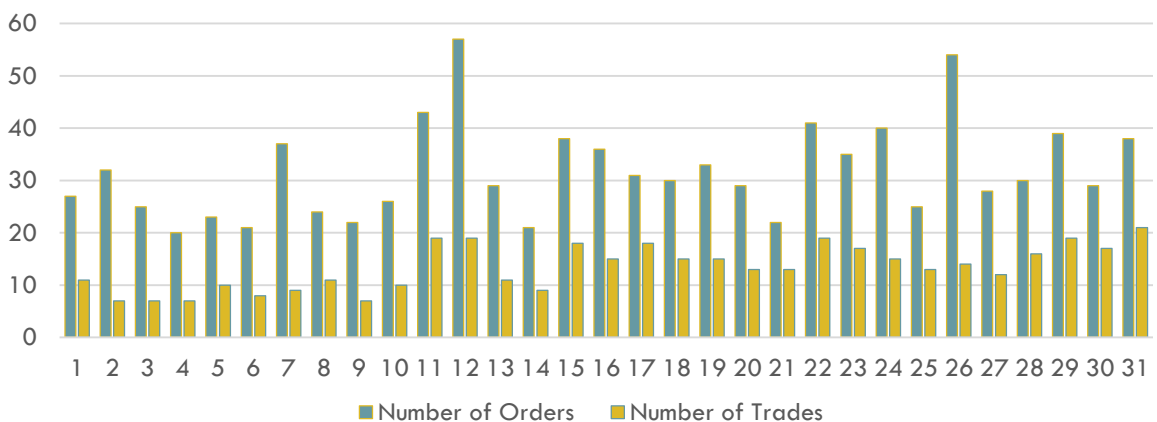
Natural Gas Market Number of Ordered Participants



Natural Gas Market Number of Orders

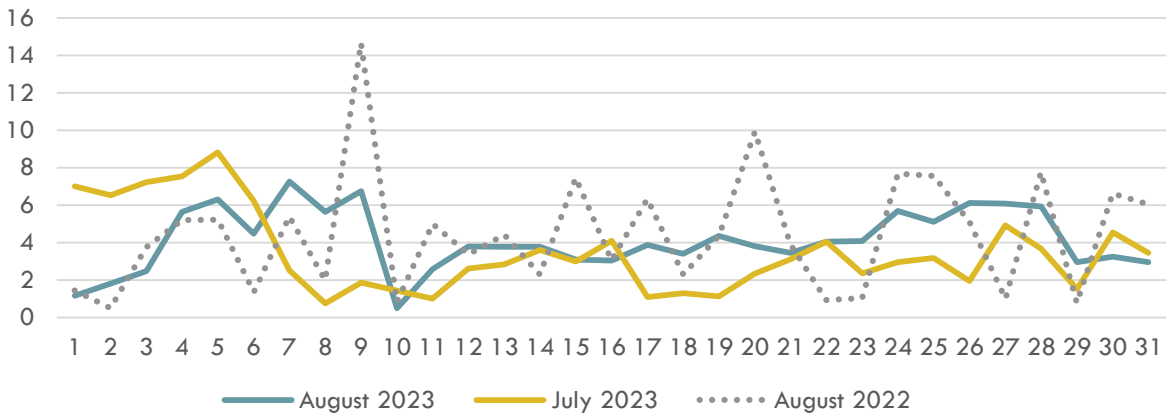


August 2023 Natural Gas Market Number of Orders and Trades

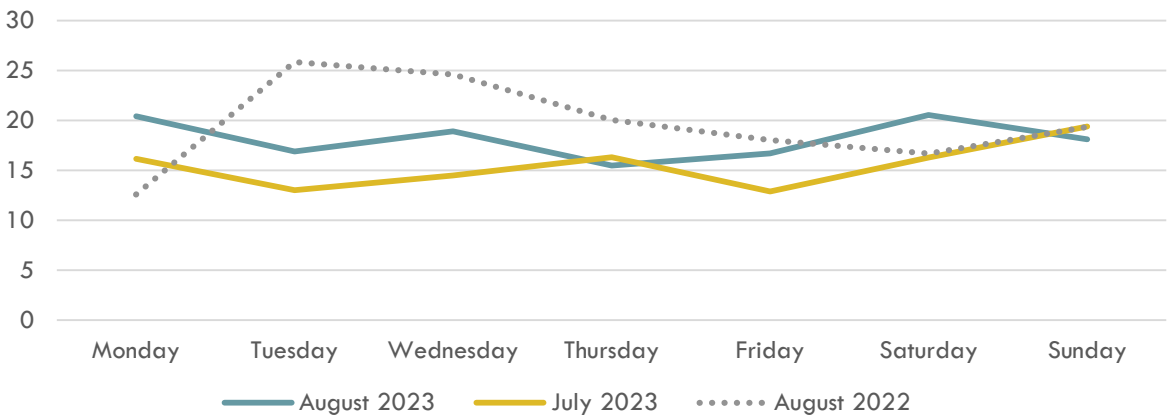


**ORDERS, TRADES, VOLUMES (2/3)**

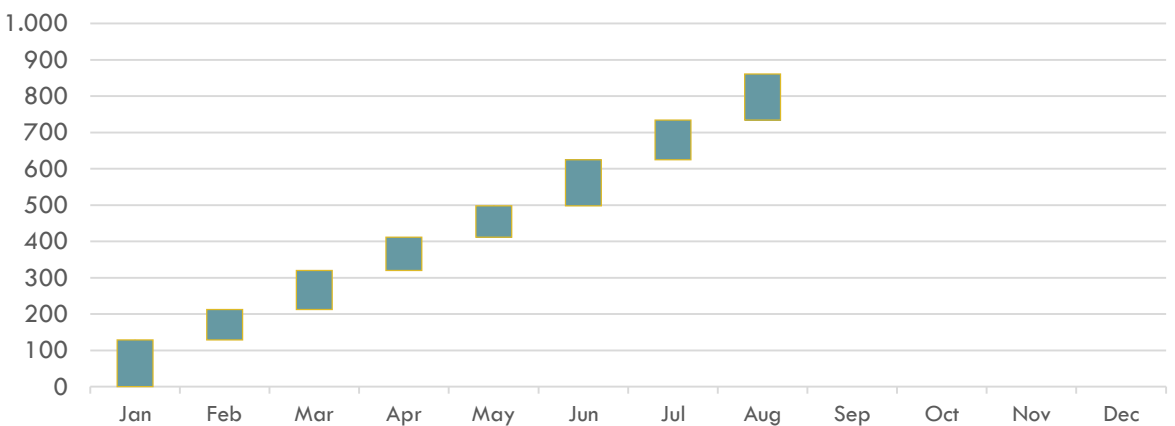
Natural Gas Market Trade Volume (mio.Sm<sup>3</sup>)



Natural Gas Market By Days Trade Volume (mio.Sm<sup>3</sup>)

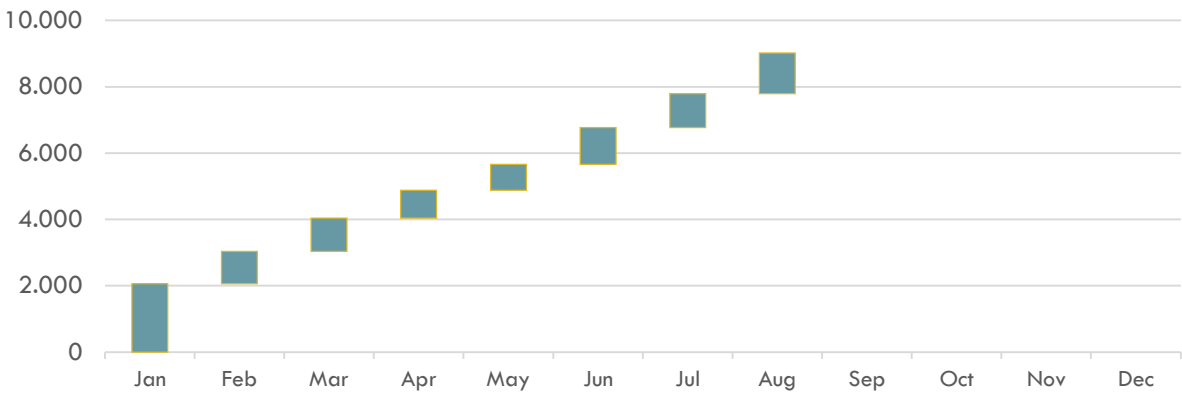


Natural Gas Market Annual Accumulated Trade Volume for 2023 (mio.Sm<sup>3</sup>)

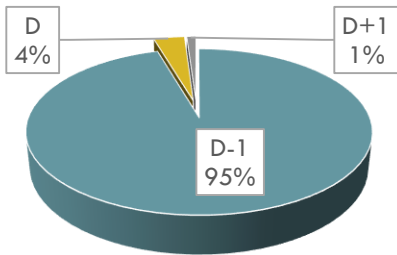


### ORDERS, TRADES, VOLUMES (3/3)

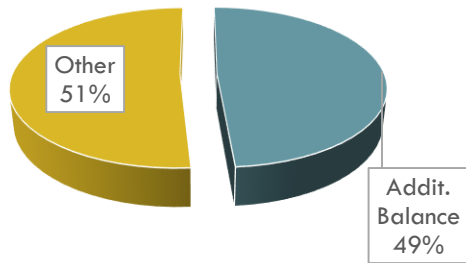
Natural Gas Market Annual Accumulated Transaction Volume for 2023 (Million TL)



Traded Volume of Daily Contracts for August 2023 Period by Sessions



Additional Balancing Traded Volume for August 2023 Period



- ✓ The maximum total traded volume was 7.266 sm<sup>3</sup> on 07 August 2023 Mon; the minimum total traded volume was realized at the level of 496 sm<sup>3</sup> on 10 August 2023 Thu.
- ✓ The maximum total transaction volume was 73.165.005 TL on 07 August 2023 Mon; the minimum total transaction volume was realized at the level of 4.957.725 TL on 10 August 2023 Thu.
- ✓ The maximum d-1 traded volume was 7.244.000 sm<sup>3</sup> on 07 August 2023 Mon; the minimum d-1 traded amount was realized at the level of 463.000 sm<sup>3</sup> on 10 August 2023 Thu.
- ✓ The maximum d-1 traded volume was 72.943.005 TL on 07 August 2023 Mon; the minimum d-1 traded amount was realized at the level of 4.627.755 TL on 10 August 2023 Thu.
- ✓ The maximum d traded volume was 3.298.000 sm<sup>3</sup> on 26 August 2023 Sat; the minimum d traded amount was realized at the level of 0 sm<sup>3</sup> on 01 August 2023 Tue.
- ✓ The maximum d traded volume was 31.335.190 TL on 26 August 2023 Sat; the minimum d traded amount was realized at the level of 0 TL on 01 August 2023 Tue.
- ✓ The maximum d+1 traded volume was 172.000 sm<sup>3</sup> on 22 August 2023 Tue; the minimum d+1 traded amount was realized at the level of 0 sm<sup>3</sup> on 02 August 2023 Wed.
- ✓ The maximum d+1 traded volume was 1.586.435 TL on 22 August 2023 Tue; the minimum d+1 traded amount was realized at the level of 0 TL on 02 August 2023 Wed.
- ✓ The ratio of sgm compared to total consumption was realized at the level of 2,8% in August 2023.
- ✓ Sgm share in virtual trade was realized at 13,2% in August 2023.

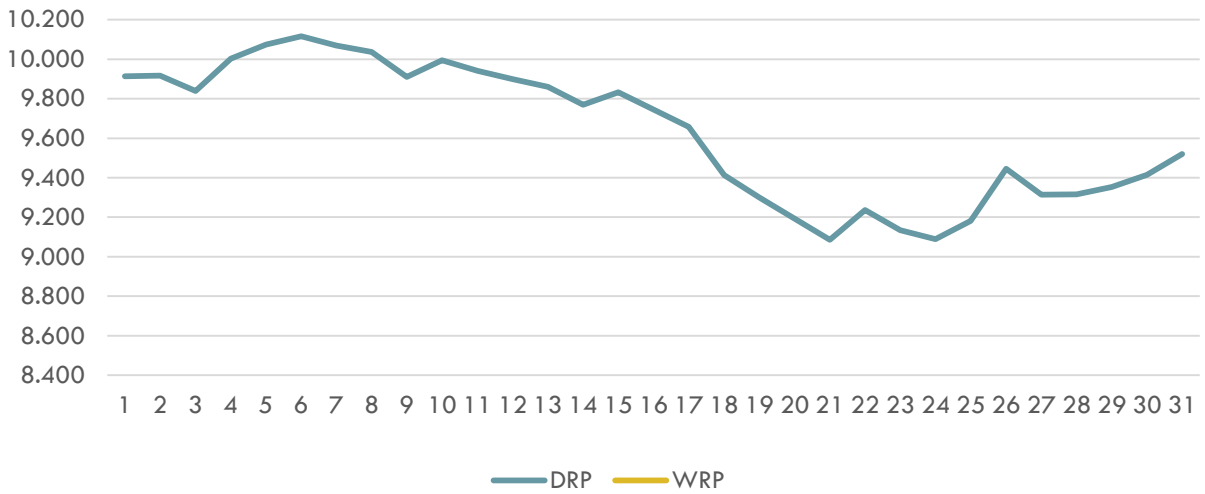


WEEKLY PRODUCTS (1/2)

August 2023 WRP - WD - WE - WW (TL/'000 Sm<sup>3</sup>)

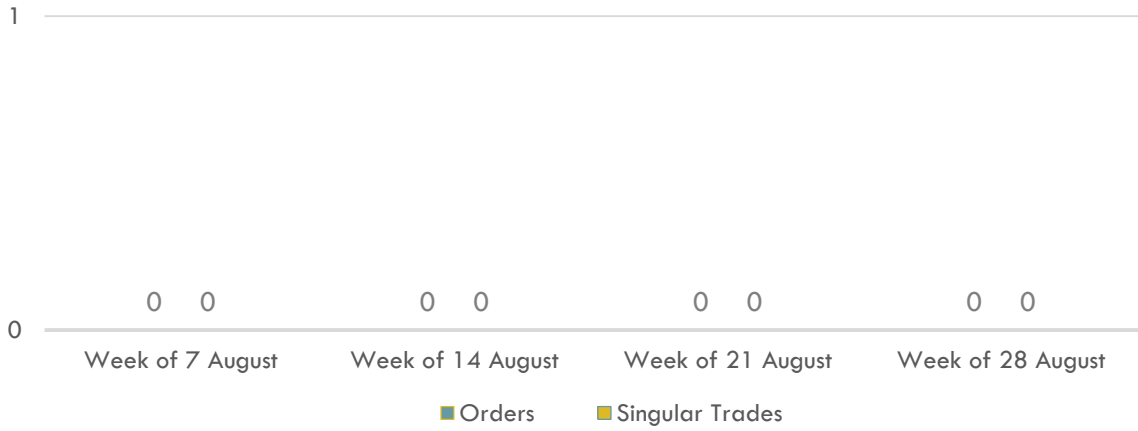


August 2023 DRP - WRP (TL/'000 Sm<sup>3</sup>)

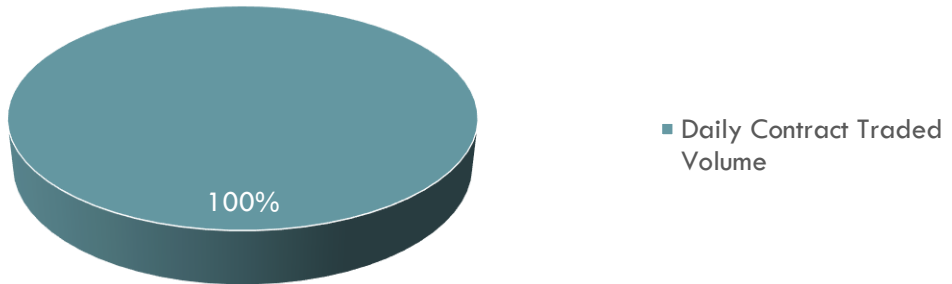


### WEEKLY PRODUCTS (2/2)

August 2023 Weekly Products Number of Orders and Trades



August 2023 Traded Volume Distribution by Contract Type



## SGM

Last 1 Year Trades

Period	Traded Volume (mio.Sm <sup>3</sup> )	Traded Amount (TL)
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
Jul 2023	108,57	1.026.101.711
Aug 2023	127,13	1.223.183.039

SGM's share in Total Cons. and Virtual Trade

Period	Total Consumption (%)	Virtual Trade (%)
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%
Jul 2023	3,5%	33,4%
Aug 2023	2,8%	13,2%

## GAS FUTURES MARKET (1/1)

## Daily Indicator Price For Contracts (TL)

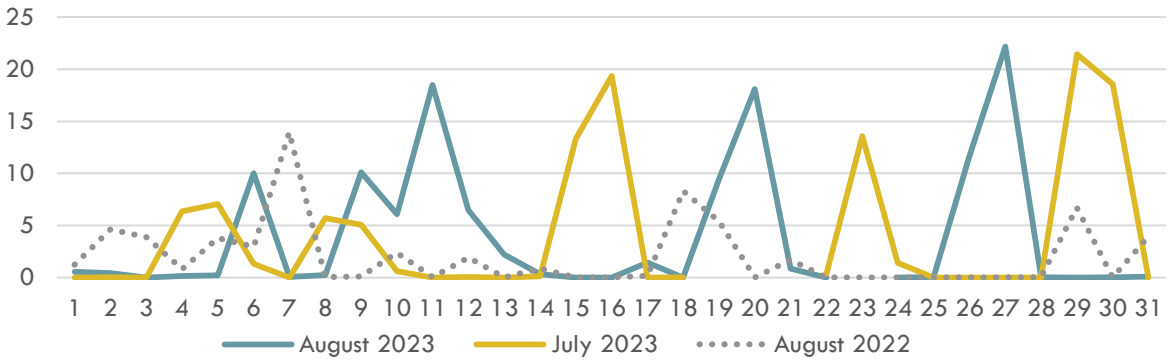
Contract Name	Average Daily Indicator Price (TL)	Minimum Daily Indicator Price (TL)	Maximum Daily Indicator Price (TL)
GM2309	20.225	20.225	20.225
GM2310	20.371	20.371	20.371
GM2311	26.069	26.069	26.069
GM2312	16.429	16.429	16.429
GM2401	21.094	21.094	21.094
GM2402	19.244	19.244	19.244
GM2403	23.432	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
GM2408	14.478	14.478	14.478
GM2409	14.592	14.592	14.592
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

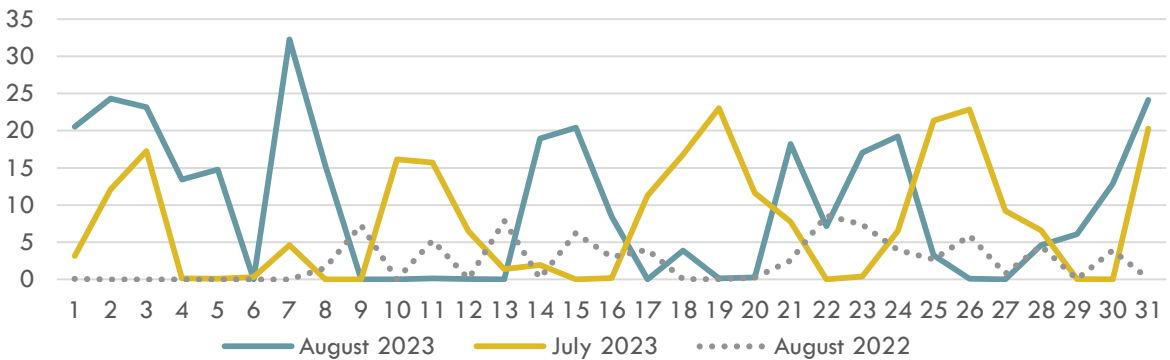
Contract Name	Traded Volume (mio.Sm3)	Traded Amount (TL)	Average Price (TL)
-	0	0	0

### TRANSMISSION SYSTEM DATA (1/2)

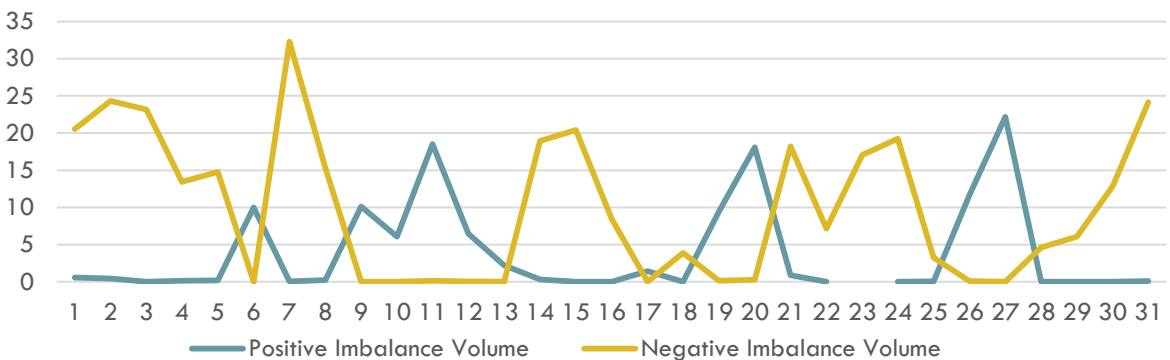
Natural Gas Market Positive Imbalance Volume (mio.Sm<sup>3</sup>)



Natural Gas Market Negative Imbalance Volume (mio.Sm<sup>3</sup>)



August 2023 Period Negative and Positive Imbalance Volume (mio.Sm<sup>3</sup>)

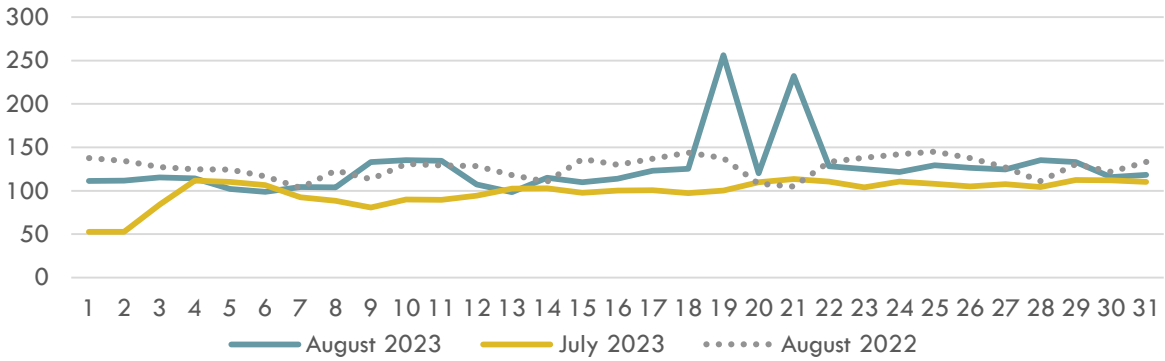


✓ The maximum positive imbalance volume was 22.186.332 sm<sup>3</sup> on 27 August 2023 Sun; the minimum positive imbalance volume was realized at the level of 0 sm<sup>3</sup> on 23 August 2023 Wed.

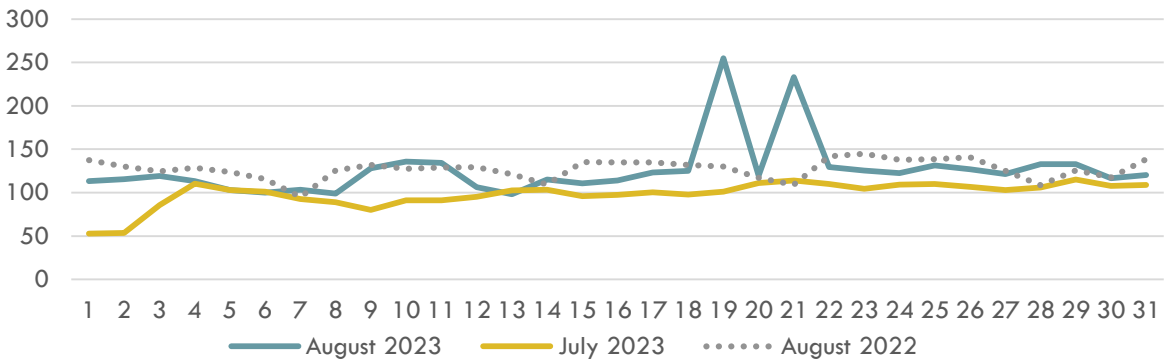
✓ The maximum negative imbalance volume was 32.264.129 sm<sup>3</sup> on 07 August 2023 Mon; the minimum negative imbalance volume was realized at the level of 351 sm<sup>3</sup> on 27 August 2023 Sun.

## TRANSMISSION SYSTEM DATA (2/2)

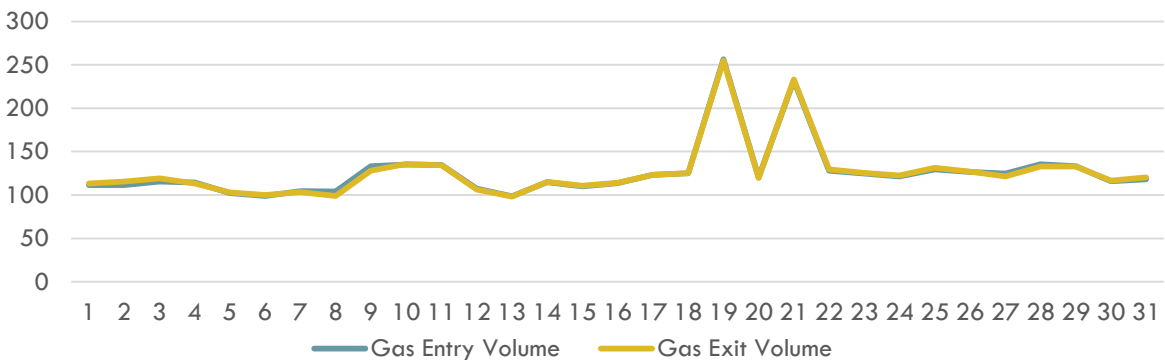
Natural Gas Market Gas Entry Volume (mio.Sm<sup>3</sup>)



Natural Gas Market Gas Exit Volume (mio.Sm<sup>3</sup>)



February 2021 Gas Entry and Exit Volume (mio.Sm<sup>3</sup>)



- ✓ Maximum gas entry volume realized on 19 August 2023 Sat was 256.368.080 sm<sup>3</sup>; minimum gas entry volume on 13 August 2023 Sun was 98.522.314 sm<sup>3</sup> levels.
- ✓ Maximum gas exit volume realized on 19 August 2023 Sat was 254.818.266 sm<sup>3</sup>; minimum gas exit volume 13 August 2023 Sun was 98.114.357 sm<sup>3</sup> levels.
- ✓ Maximum gas volume in stocks realized on 21 August 2023 Mon was 837.864.714 sm<sup>3</sup>; minimum stok gas volume 06 August 2023 Sun was 407.361.255 sm<sup>3</sup> levels.

## ADDITIONAL BALANCING TRANSACTIONS

## Transactions with 1 Code

Contract Day	Transaction Volume ('000 Sm <sup>3</sup> )	WAP (TL/'000 Sm <sup>3</sup> )	Direction
01.08.2023	301	9.970	Purchase
02.08.2023	1.700	9.921	Purchase
03.08.2023	2.341	9.869	Purchase
04.08.2023	5.532	10.003	Purchase
05.08.2023	6.196	10.074	Purchase
06.08.2023	4.396	10.116	Purchase
07.08.2023	7.145	10.069	Purchase
08.08.2023	5.494	10.034	Purchase
09.08.2023	6.118	9.910	Purchase
10.08.2023	314	9.996	Purchase
11.08.2023	791	9.943	Purchase
12.08.2023	1.123	9.900	Purchase
13.08.2023	520	9.830	Purchase
14.08.2023	254	9.770	Purchase
15.08.2023	112	9.680	Purchase
16.08.2023	652	9.577	Purchase
17.08.2023	949	9.430	Purchase
18.08.2023	842	9.390	Purchase
19.08.2023	1.245	9.290	Purchase
20.08.2023	767	9.190	Purchase
21.08.2023	470	9.085	Purchase
22.08.2023	153	9.030	Purchase
23.08.2023	915	9.180	Purchase
24.08.2023	1.471	9.037	Purchase
25.08.2023	1.689	9.080	Purchase
26.08.2023	2.597	9.350	Purchase
27.08.2023	3.708	9.300	Purchase
28.08.2023	3.169	9.290	Purchase
29.08.2023	308	9.240	Purchase
30.08.2023	704	9.249	Purchase
31.08.2023	108	9.690	Purchase

## Transactions with 2 Code

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

## Transactions with 3 Code

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

## Transactions with 4 Code

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

- ✓ Additional balancing transactions with a maximum code of 1 were 7.145.000 sm<sup>3</sup> on 07 August 2023 Mon; additional balancing transactions with a minimum code of 1 were realized at the level of 108.000 sm<sup>3</sup> on 31 August 2023 Thu.
- ✓ In August, no additional balancing transaction code of 2 was realized.
- ✓ In August, no additional balancing transaction code of 3 was realized.
- ✓ In August, no additional balancing transaction code of 4 was realized.