

EPIAS

NATURAL GAS MARKET MONTHLY BULLETIN

SEPTEMBER 2023



SUMMARY DATA (1/2)

Arithmetic Means

	September 2023	August 2023	Monthly Change	September 2022	Annual Change
Number of Ordered Participants	9	11	-14.7%	8	22.4%
Number of Trades	10	13	-22.3%	5	105.3%
Number of Orders	28	32	-12.5%	13	114.4%
BGSP (TL/'000 Sm ³)	9.204	9.150	0.6%	25.343	-63.7%
DRP (TL/'000 Sm ³)	9.688	9.631	0.6%	26.127	-62.9%
BGPP (TL/'000 Sm ³)	10.201	10.113	0.9%	27.017	-62.2%
Traded Volume (mio.Sm ³)	1,43	4,10	-65.0%	2,05	-30.0%
Transaction Volume (TL)	13.922.252	39.457.517	-64.7%	53.748.666	-74.1%
Gas Entry Volume (mio.Sm ³)	107,75	126,60	-14.9%	110,56	-2.5%
Gas Exit Volume (mio.Sm ³)	107,80	126,63	-14.9%	110,72	-2.6%
WRP (TL/'000 Sm ³)	-	-	-	-	-

Maximum / Minimum Levels

	September 2023		August 2023		September 2022	
	Max	Min	Max	Min	Max	Min
Number of Trades	19	4	21	7	10	3
Number of Ordered Participants	12	8	14	9	10	5
Number of Orders	49	19	57	20	27	6
BGSP (TL/'000 Sm ³)	10.038	8.837	9.611	8.631	25.508	21.728
DRP (TL/'000 Sm ³)	10.566	9.302	10.116	9.085	26.297	22.400
BGPP (TL/'000 Sm ³)	11.095	9.767	10.622	9.539	27.086	26.263
Traded Volume (mio.Sm ³)	3,54	0,26	7,27	0,50	8,21	0,12
Transaction Volume (TL)	37.414.784	2.496.814	73.165.005	4.957.725	215.740.634	3.050.452
Gas Exit Volume (mio.Sm ³)	130,52	92,00	135,97	98,11	138,02	82,65
Gas Entry Volume (mio.Sm ³)	132,58	90,75	135,40	98,52	135,39	82,59
WRP (TL/'000 Sm ³)	-	-	-	-	-	-

SUMMARY DATA (2/2)

Totals

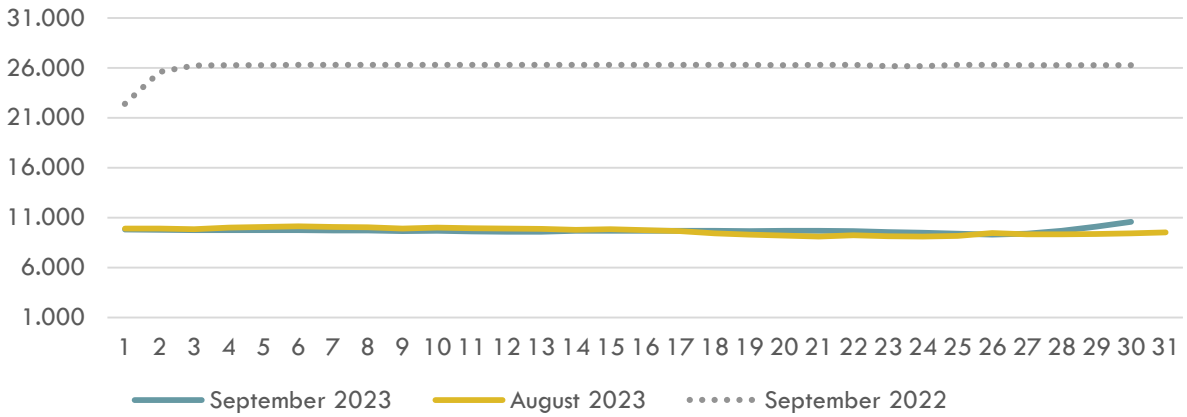
	September 2023	August 2023	Monthly Change	September 2022	Annual Change
Ratio of Natural Gas Based Generation to Total Electricity Generation (%)	24	29	-17.3%	27	-13.8%
Total Production of Natural Gas Based Power Plants (MWh)	6.209.927	8.872.682	-30.0%	6.911.675	-10.2%
Total Electricity Generation (MWh)	26.296.732	31.066.916	-15.4%	25.220.028	4.3%
Number of Trades	312	415	-24.8%	152	105.3%
Number of Orders	834	985	-15.3%	389	114.4%
Traded Volume (mio.Sm ³)	43,00	127,13	-66.2%	61,47	-30.0%
Transaction Volume (TL)	417.667.547	1.223.183.039	-65.9%	1.612.459.966	-74.1%
Gas Entry Volume (mio.Sm ³)	3.232,42	3.924,57	-17.6%	3.316,80	-2.5%
Gas Exit Volume (mio.Sm ³)	3.234,08	3.925,68	-17.6%	3.321,70	-2.6%

Brent Oil and TTF Prices

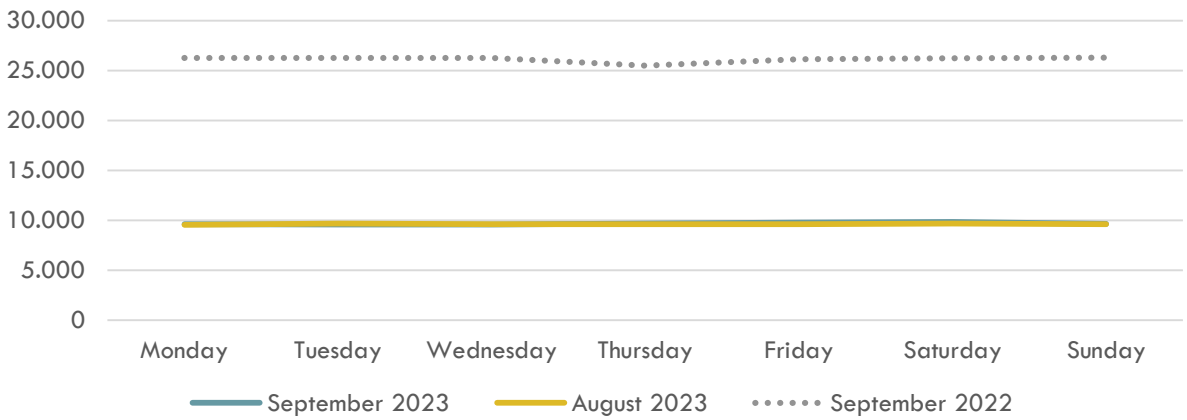
	September 2023	August 2023	Aylık Değişim	September 2022	Yıllık Değişim
Brent Oil (\$/bl)	92,59	85,10	8.8%	90,57	2.2%
TTF (€/MWh)	36,46	33,11	10.1%	185,89	-80.4%

PRICES (1/2)

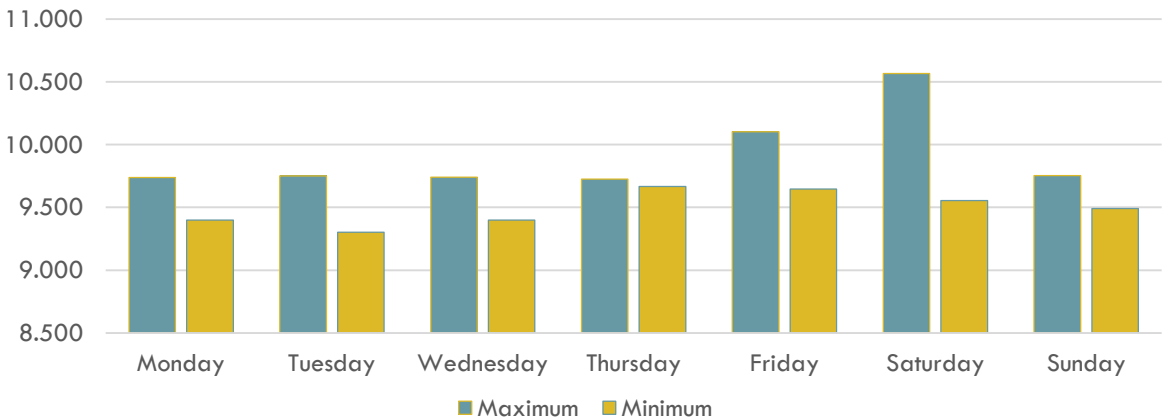
Natural Gas Market DRP (TL/'000 Sm³)



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

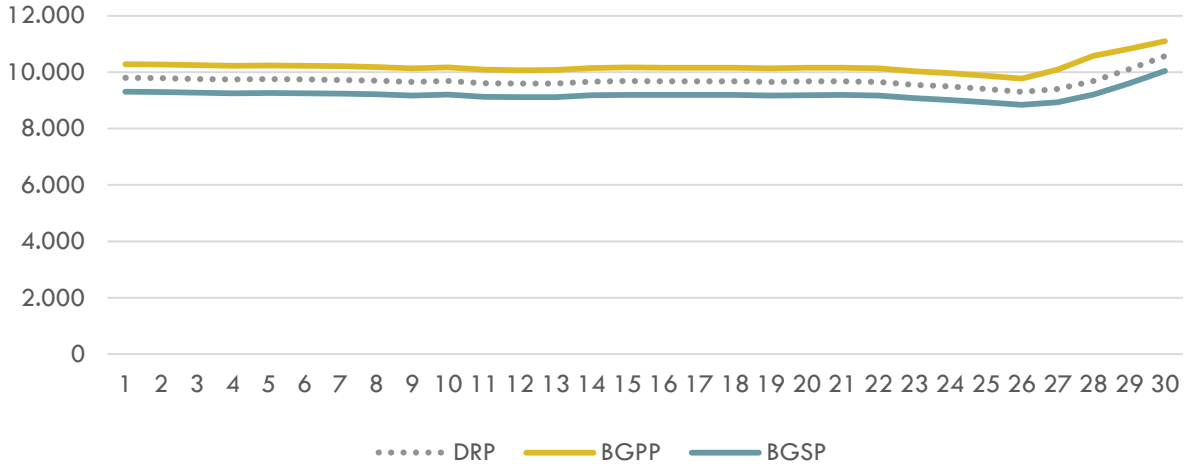


September 2023 Natural Gas Market By Days Max / Min DRP (TL/'000 Sm³)



PRICES (2/2)

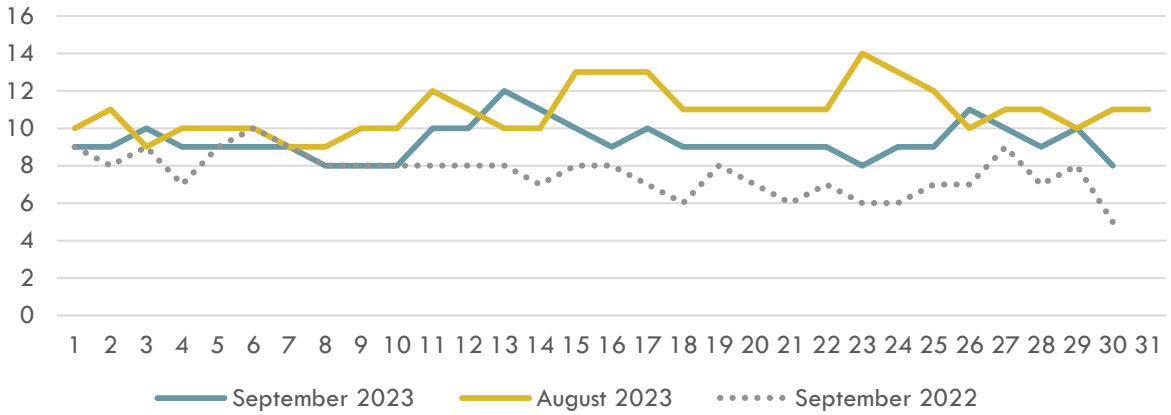
September 2023 DRP - BGPP - BGSP (TL/'000 Sm³)



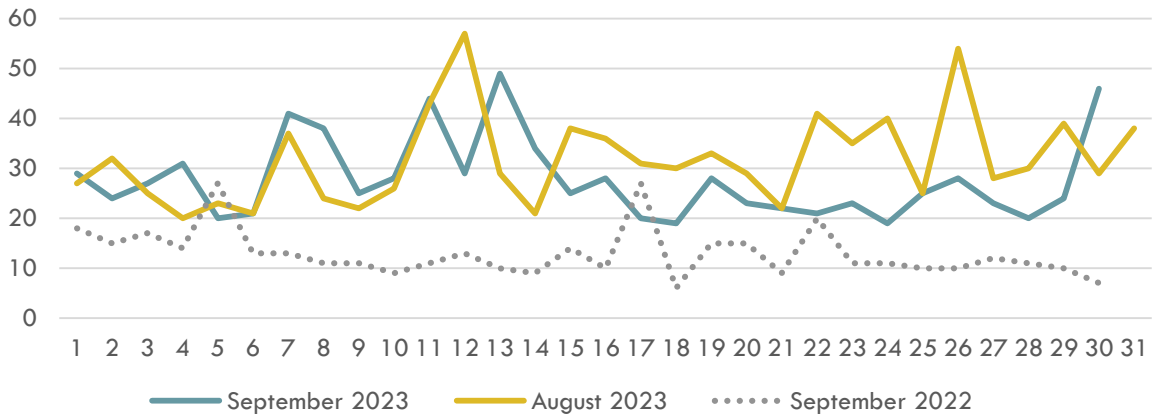
- ✓ The maximum DRP was 10.566 TL on 30 September 2023 Sat; the minimum DRP was realized at the level of 9.302 TL on 26 September 2023 Tue.
- ✓ The Maximum BGPP was 11.095 on 30 September 2023 Sat; the minimum BGPP was realized at the level of 9.767 TL on 26 September 2023 Tue.
- ✓ The maximum BGSP was 10.038 on 30 September 2023 Sat; the minimum BGSP was realized at the level of 8.837 TL on 26 September 2023 Tue.

ORDERS, TRADES, VOLUMES (1/3)

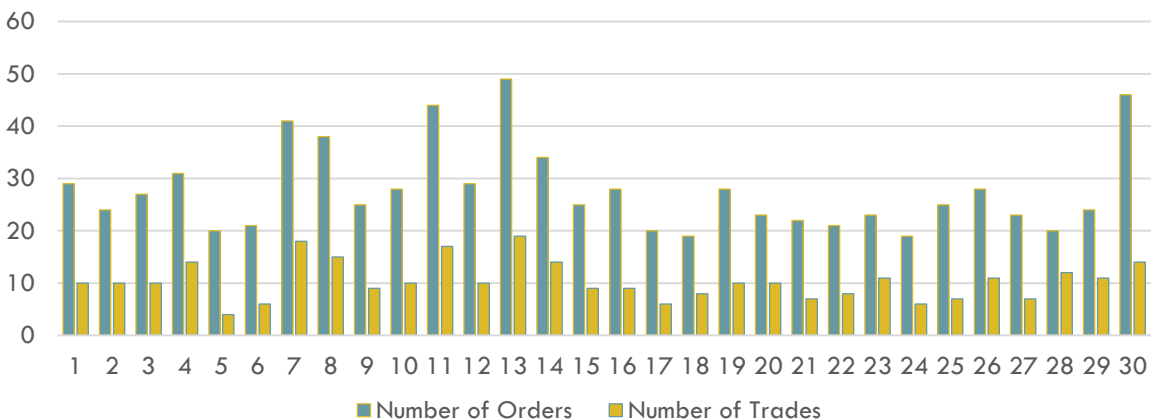
Natural Gas Market Number of Ordered Participants



Natural Gas Market Number of Orders

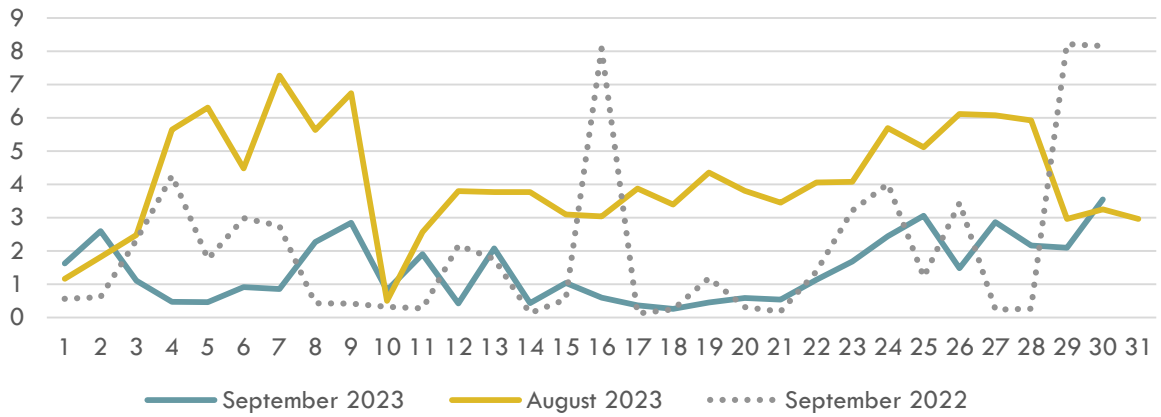


September 2023 Natural Gas Market Number of Orders and Trades

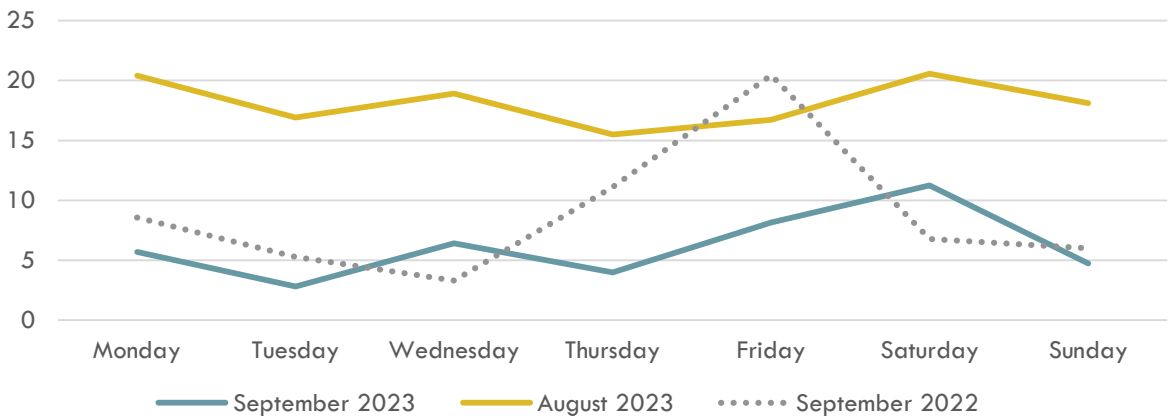


ORDERS, TRADES, VOLUMES (2/3)

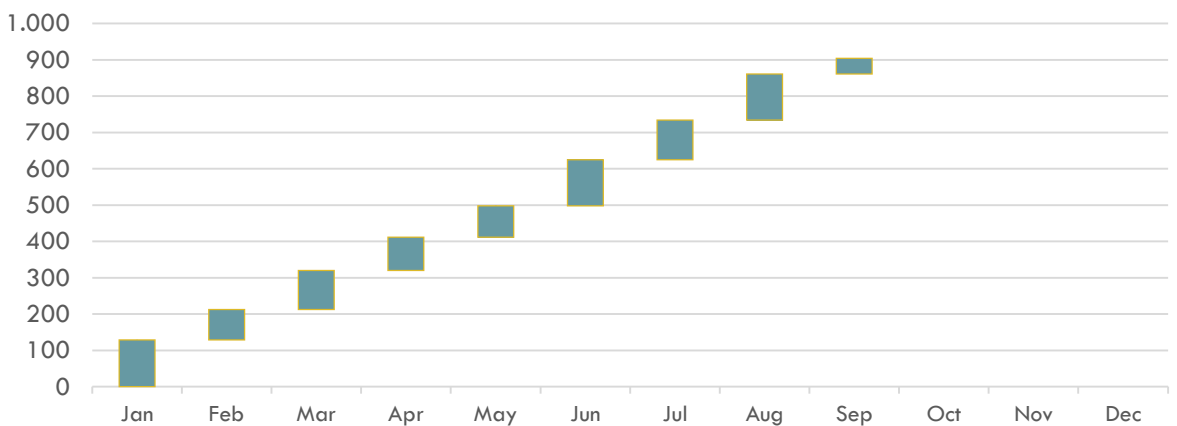
Natural Gas Market Trade Volume (mio.Sm³)



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

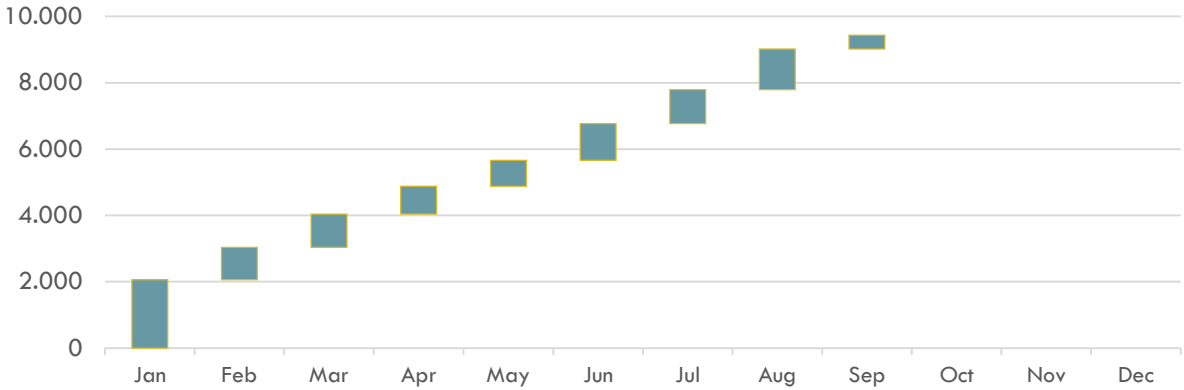


Natural Gas Market Annual Accumulated Trade Volume for 2023 (mio.Sm³)

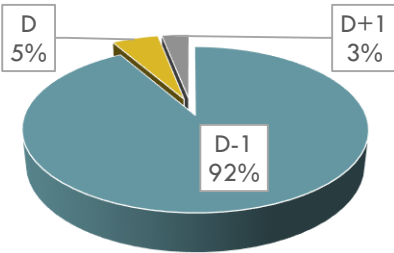


ORDERS, TRADES, VOLUMES (3/3)

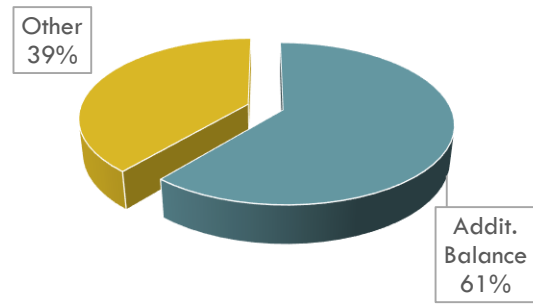
Natural Gas Market Annual Accumulated Transaction Volume for 2023 (Million TL)



Traded Volume of Daily Contracts for September 2023 Period by Sessions



Additional Balancing Traded Volume for September 2023 Period



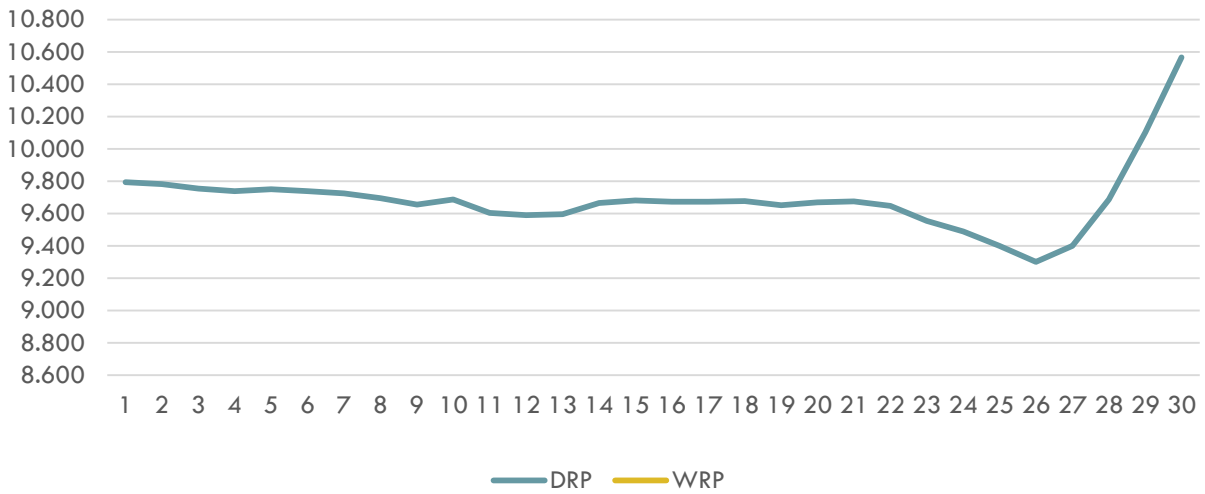
- ✓ The maximum total traded volume was 3.541 sm³ on 30 September 2023 Sat; the minimum total traded volume was realized at the level of 258 sm³ on 18 September 2023 Mon.
- ✓ The maximum total transaction volume was 37.414.784 TL on 30 September 2023 Sat; the minimum total transaction volume was realized at the level of 2.496.814 TL on 18 September 2023 Mon.
- ✓ The maximum d-1 traded volume was 3.259.000 sm³ on 30 September 2023 Sat; the minimum d-1 traded amount was realized at the level of 235.000 sm³ on 18 September 2023 Mon.
- ✓ The maximum d-1 traded volume was 34.436.204 TL on 30 September 2023 Sat; the minimum d-1 traded amount was realized at the level of 2.274.404 TL on 18 September 2023 Mon.
- ✓ The maximum d traded volume was 1.342.000 sm³ on 11 September 2023 Mon; the minimum d traded amount was realized at the level of 0 sm³ on 02 September 2023 Sat.
- ✓ The maximum d traded volume was 12.883.200 TL on 11 September 2023 Mon; the minimum d traded amount was realized at the level of 0 TL on 02 September 2023 Sat.
- ✓ The maximum d+1 traded volume was 203.000 sm³ on 21 September 2023 Thu; the minimum d+1 traded amount was realized at the level of 0 sm³ on 02 September 2023 Sat.
- ✓ The maximum d+1 traded volume was 1.969.050 TL on 21 September 2023 Thu; the minimum d+1 traded amount was realized at the level of 0 TL on 02 September 2023 Sat.
- ✓ The ratio of sgm compared to total consumption was realized at the level of 1,2% in September 2023.
- ✓ Sgm share in virtual trade was realized at 3,7% in September 2023.

WEEKLY PRODUCTS (1/2)

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

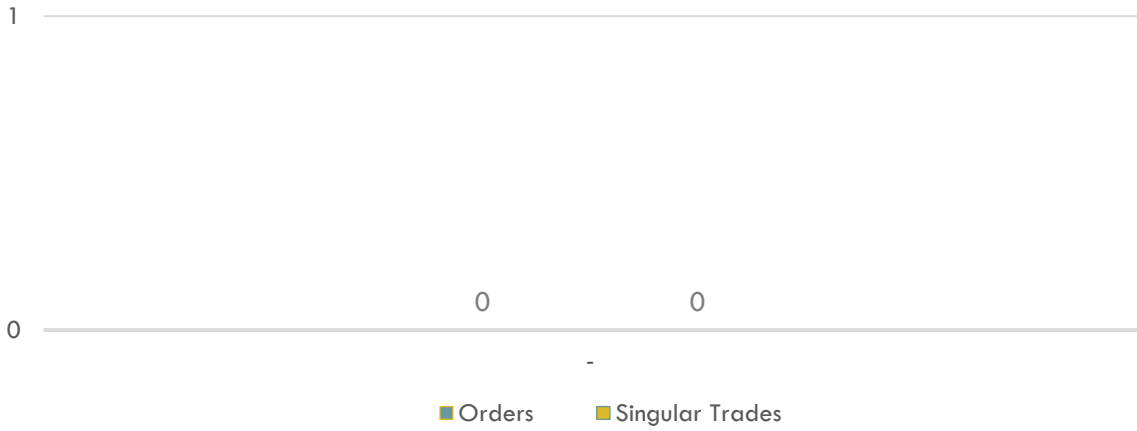


September 2023 DRP - WRP (TL/'000 Sm³)

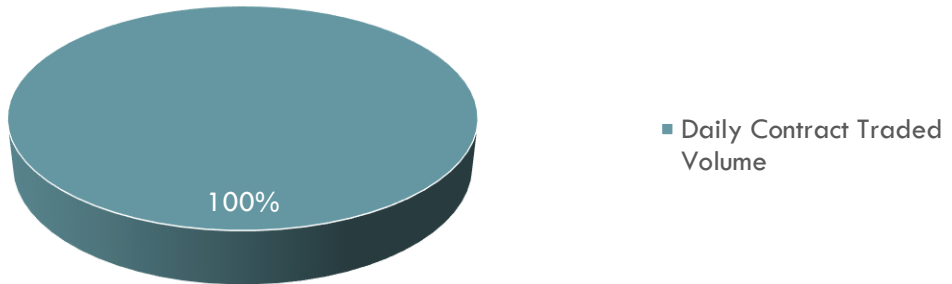


WEEKLY PRODUCTS (2/2)

September 2023 Weekly Products Number of Orders and Trades



September 2023 Traded Volume Distribution by Contract Type



SGM

Last 1 Year Trades

Period	Traded Volume (mio.Sm ³)	Traded Amount (TL)
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
Sep 2023	43,00	417.667.547

SGM's share in Total Cons. and Virtual Trade

Period	Total Consumption (%)	Virtual Trade (%)
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%
Sep 2023	1,2%	3,7%

GAS FUTURES MARKET (1/1)

Daily Indicator Price For Contracts (TL)

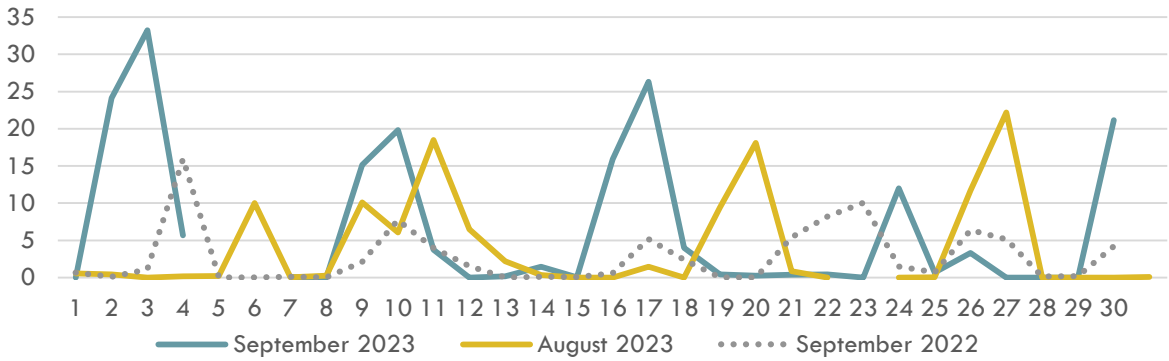
Contract Name	Average Daily Indicator Price (TL)	Minimum Daily Indicator Price (TL)	Maximum Daily Indicator Price (TL)
GM2310	20.455	20.371	20.539
GM2311	26.188	26.069	26.284
GM2312	15.921	15.500	16.429
GM2401	21.094	21.094	21.094
GM2402	19.244	19.244	19.244
GM2403	23.432	23.432	23.432
GM2404	13.823	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
GM2410	16.322	16.322	16.322
GQ2304	20.811	20.714	20.901
GQ2401	21.301	21.301	21.301
GQ2402	14.137	14.137	14.137
GQ2403	14.362	14.362	14.362
GQ2404	40.458	40.458	40.458
GY24	22.591	22.591	22.591

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

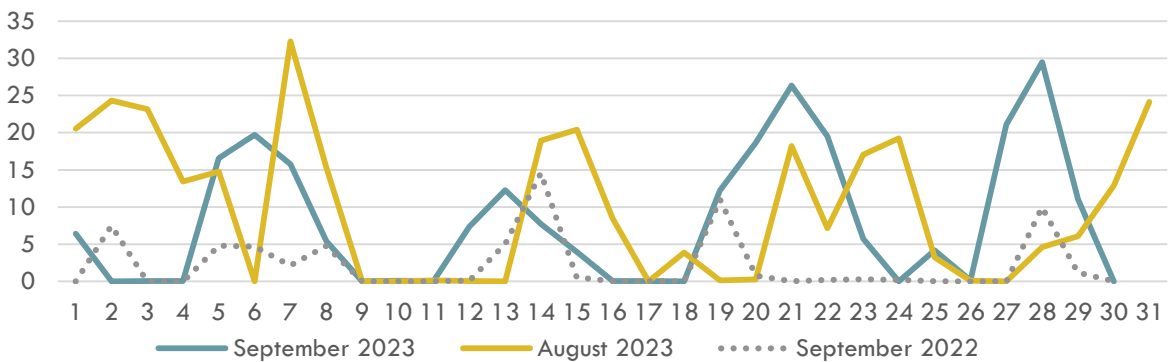
Contract Name	Traded Volume (mio.Sm3)	Traded Amount (TL)	Average Price (TL)
-	-	-	-

TRANSMISSION SYSTEM DATA (1/2)

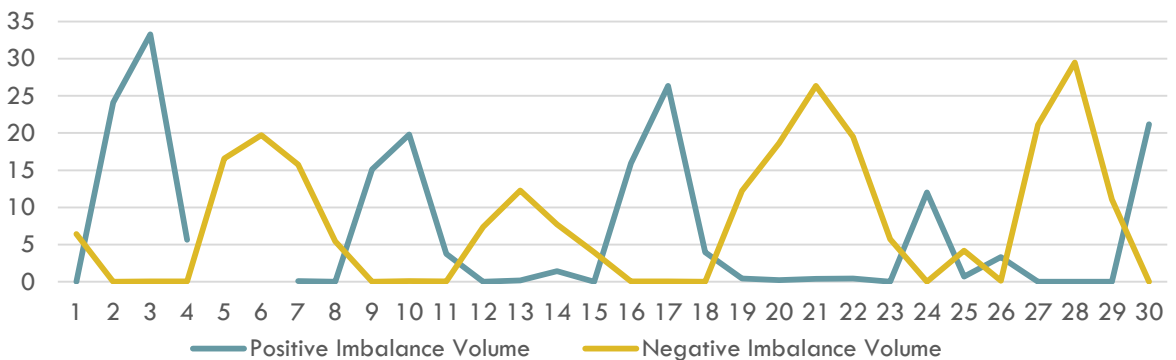
Natural Gas Market Positive Imbalance Volume (mio.Sm³)



Natural Gas Market Negative Imbalance Volume (mio.Sm³)



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

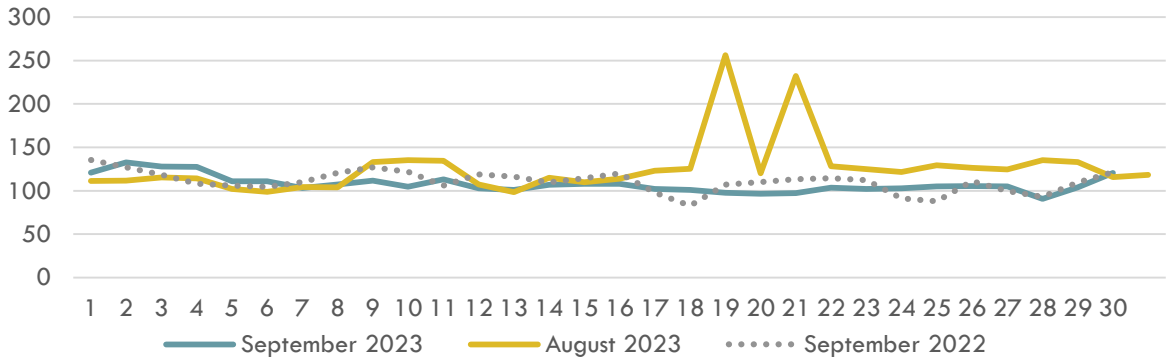


✓ The maximum positive imbalance volume was 33.251.695 sm³ on 03 September 2023 Sun; the minimum positive imbalance volume was realized at the level of 0 sm³ on 05 September 2023 Tue.

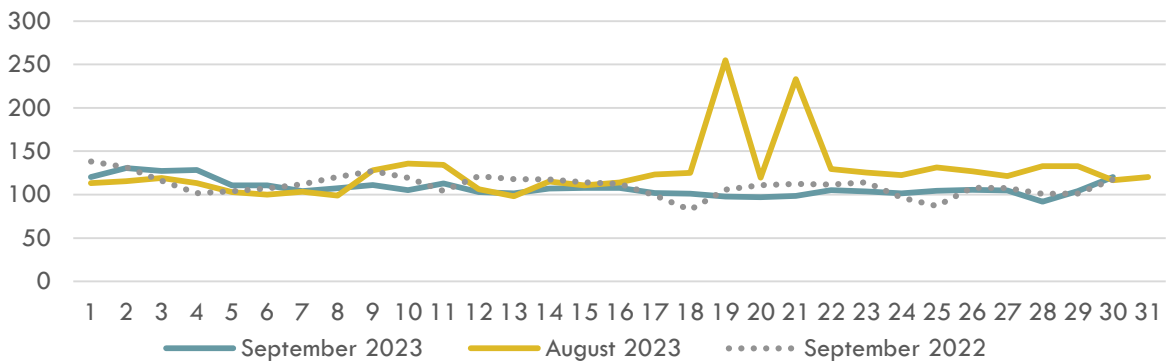
✓ The maximum negative imbalance volume was 29.458.295 sm³ on 28 September 2023 Thu; the minimum negative imbalance volume was realized at the level of 2.036 sm³ on 24 September 2023 Sun.

TRANSMISSION SYSTEM DATA (2/2)

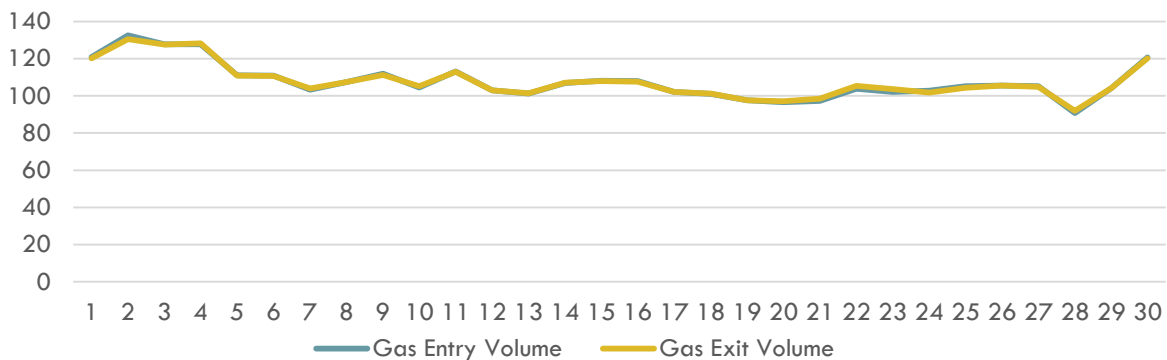
Natural Gas Market Gas Entry Volume (mio.Sm³)



Natural Gas Market Gas Exit Volume (mio.Sm³)



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



- ✓ Maximum gas entry volume realized on 02 September 2023 Sat was 132.577.830 sm³; minimum gas entry volume on 28 September 2023 Thu was 90.746.443 sm³ levels.
- ✓ Maximum gas exit volume realized on 02 September 2023 Sat was 130.520.191 sm³; minimum gas exit volume 28 September 2023 Thu was 91.996.281 sm³ levels.
- ✓ Maximum gas volume in stocks realized on 11 September 2023 Mon was 419.829.986 sm³; minimum stok gas volume 23 September 2023 Sat was 414.729.748 sm³ levels.

ADDITIONAL BALANCING TRANSACTIONS

Transactions with 1 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/'000 Sm ³)	Direction
01.09.2023	1.235	9.790	Purchase
02.09.2023	2.209	9.783	Purchase
03.09.2023	625	9.758	Purchase
04.09.2023	151	9.750	Purchase
05.09.2023	352	9.750	Purchase
06.09.2023	672	9.738	Purchase
07.09.2023	252	9.726	Purchase
08.09.2023	437	9.701	Purchase
09.09.2023	868	9.641	Purchase
10.09.2023	560	9.692	Purchase
11.09.2023	254	9.618	Purchase
12.09.2023	127	9.589	Purchase
13.09.2023	43	9.688	Purchase
14.09.2023	166	9.677	Purchase
15.09.2023	324	9.685	Purchase
16.09.2023	425	9.683	Purchase
17.09.2023	226	9.677	Purchase
18.09.2023	136	9.677	Purchase
19.09.2023	167	9.655	Purchase
20.09.2023	287	9.673	Purchase
21.09.2023	197	9.684	Purchase
22.09.2023	776	9.648	Purchase
23.09.2023	1.314	9.557	Purchase
24.09.2023	2.341	9.490	Purchase
25.09.2023	2.929	9.400	Purchase
26.09.2023	1.311	9.300	Purchase
27.09.2023	2.124	9.400	Purchase
28.09.2023	1.328	9.654	Purchase
29.09.2023	1.870	10.094	Purchase
30.09.2023	2.578	10.580	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 2.929.000 sm³ on 25 September 2023 Mon; additional balancing transactions with a minimum code of 1 were realized at the level of 43.000 sm³ on 13 September 2023 Wed.
- ✓ In September, no additional balancing transaction code of 2 was realized.
- ✓ In September, no additional balancing transaction code of 3 was realized.
- ✓ In September, no additional balancing transaction code of 4 was realized.