

EPIAS

NATURAL GAS MARKET MONTHLY BULLETIN

SEPTEMBER 2022



SUMMARY DATA (1/2)

Arithmetic Means

	September 2022	August 2022	Monthly Change	September 2021	Annual Change
DRP (TL/'000 Sm ³)	26.127	17.780	46.9%	2.346	1013.7%
WRP (TL/'000 Sm ³)	0	0	-	0	-
BGPP (TL/'000 Sm ³)	27.017	18.314	47.5%	2.434	1009.9%
BGSP (TL/'000 Sm ³)	25.343	17.239	47.0%	2.273	1015.0%
Traded Volume (mio.Sm ³)	2,05	4,43	-53.7%	2,60	-21.1%
Transaction Volume (TL)	53.748.666	78.791.494	-31.8%	6.411.626	738.3%
Gas Entry Volume (mio.Sm ³)	110,56	127,13	-13.0%	142,46	-22.4%
Gas Exit Volume (mio.Sm ³)	110,72	127,15	-12.9%	141,77	-21.9%
Number of Ordered Participants	8	10	-20.4%	18	-57.1%
Number of Orders	13	17	-23.7%	54	-76.2%
Number of Trades	5	5	1.3%	24	-78.4%

Maximum / Minimum Levels

	September 2022		August 2022		September 2021	
	Max	Min	Max	Min	Max	Min
DRP (TL/'000 Sm ³)	26.297	22.400	19.166	17.221	2.927	2.156
WRP (TL/'000 Sm ³)	0	0	0	0	0	0
BGPP (TL/'000 Sm ³)	27.086	26.263	19.741	17.738	3.023	2.220
BGSP (TL/'000 Sm ³)	25.508	21.728	18.591	16.705	2.839	2.091
Traded Volume (mio.Sm ³)	8,21	0,12	14,66	0,51	11,80	0,94
Transaction Volume (TL)	215.740.634	3.050.452	252.399.105	8.842.480	33.565.372	2.280.174
Gas Entry Volume (mio.Sm ³)	135,39	82,59	144,88	103,40	161,26	112,75
Gas Exit Volume (mio.Sm ³)	138,02	82,65	144,83	94,94	161,31	110,39
Number of Ordered Participants	10	5	12	6	20	14
Number of Orders	27	6	32	11	89	35
Number of Trades	10	3	8	3	42	13

SUMMARY DATA (2/2)

Totals

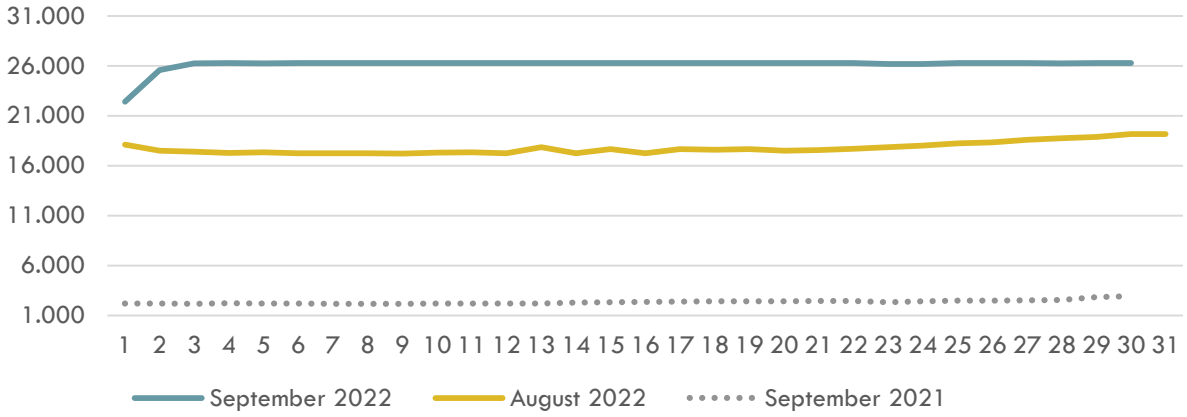
	September 2022	August 2022	Monthly Change	September 2021	Annual Change
Traded Volume (mio.Sm ³)	61,47	137,21	-55.2%	77,88	-21.1%
Transaction Volume (TL)	1.612.459.966	2.442.536.310	-34.0%	192.348.772	738.3%
Gas Entry Volume (mio.Sm ³)	3.316,80	3.940,90	-15.8%	4.273,82	-22.4%
Gas Exit Volume (mio.Sm ³)	3.321,70	3.941,63	-15.7%	4.253,15	-21.9%
Number of Orders	389	527	-26.2%	1.633	-76.2%
Number of Trades	152	155	-1.9%	705	-78.4%
Total Production of Natural Gas Based Power Plants (MWh)	6.911.675	8.913.179	-22.5%	9.945.006	-30.5%
Total Electricity Generation (MWh)	25.222.143	29.330.812	-14.0%	25.615.652	-1.5%
Ratio of Natural Gas Based Generation to Total Electricity Generation (%)	27	30	-9.8%	39	-29.4%

Brent Oil and TTF Prices

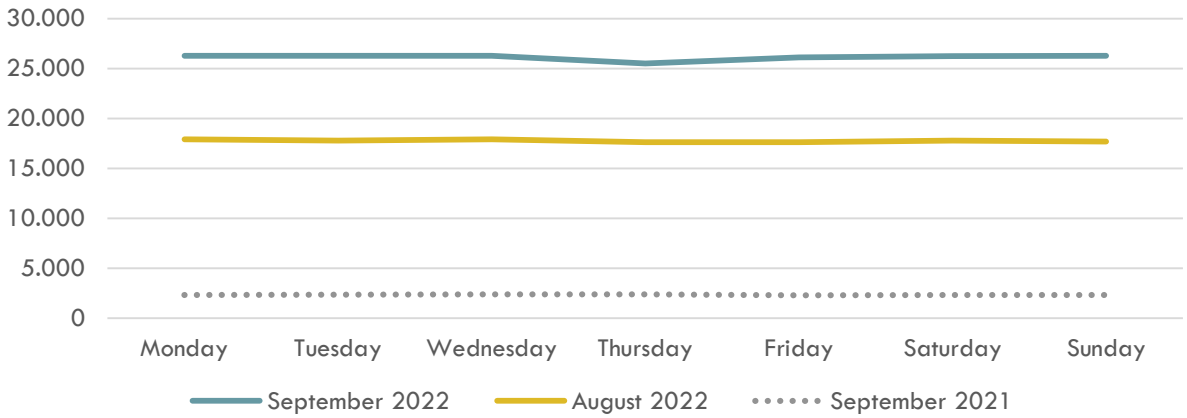
	September 2022	August 2022	Monthly Change	September 2021	Annual Change
Brent Oil(\$/bl)	90,57	97,74	-7,34%	74,92	20,89%
TTF (€/MWh)	185,89	234,98	-20,89%	63,68	191,92%

PRICES (1/2)

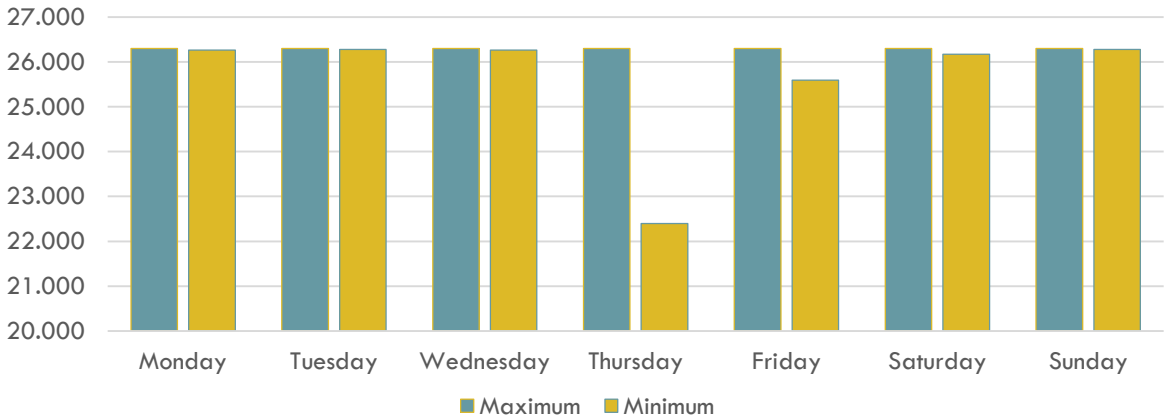
Natural Gas Market DRP (TL/'000 Sm³)



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

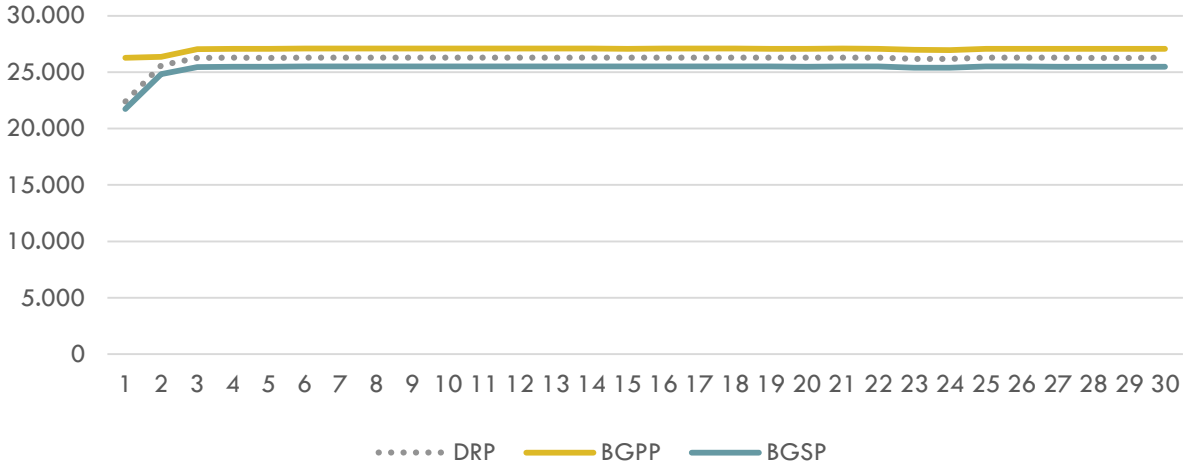


September 2022 Natural Gas Market By Days Max / Min DRP (TL/'000 Sm³)



PRICES (2/2)

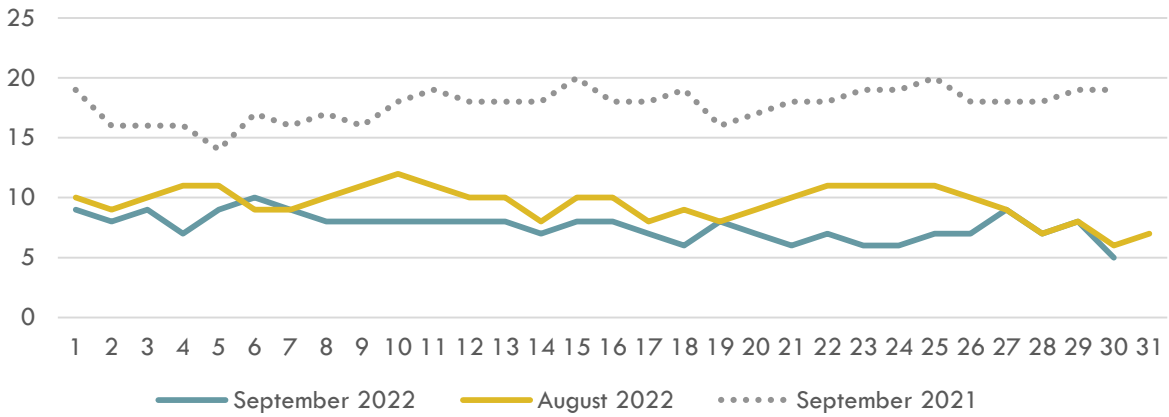
September 2022 DRP - BGPP - BGSP (TL/'000 Sm³)



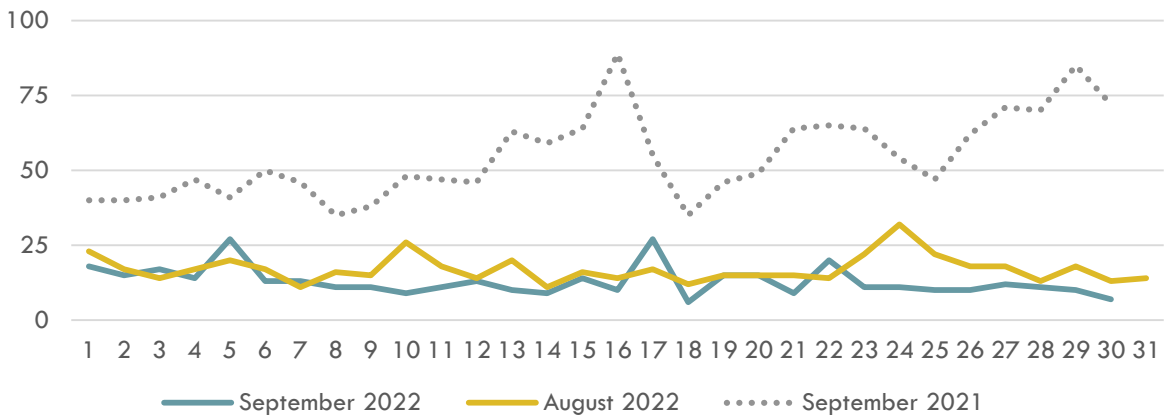
- ✓ The maximum DRP was 26.297 TL on 06 September 2022 Tue; the minimum DRP was realized at the level of 22.400 TL on 01 September 2022 Thu.
- ✓ The Maximum BGPP was 27.086 on 06 September 2022 Tue; the minimum BGPP was realized at the level of 26.263 TL on 01 September 2022 Thu.
- ✓ The maximum BGSP was 25.508 on 06 September 2022 Tue; the minimum BGSP was realized at the level of 21.728 TL on 01 September 2022 Thu.

ORDERS, TRADES, VOLUMES (1/3)

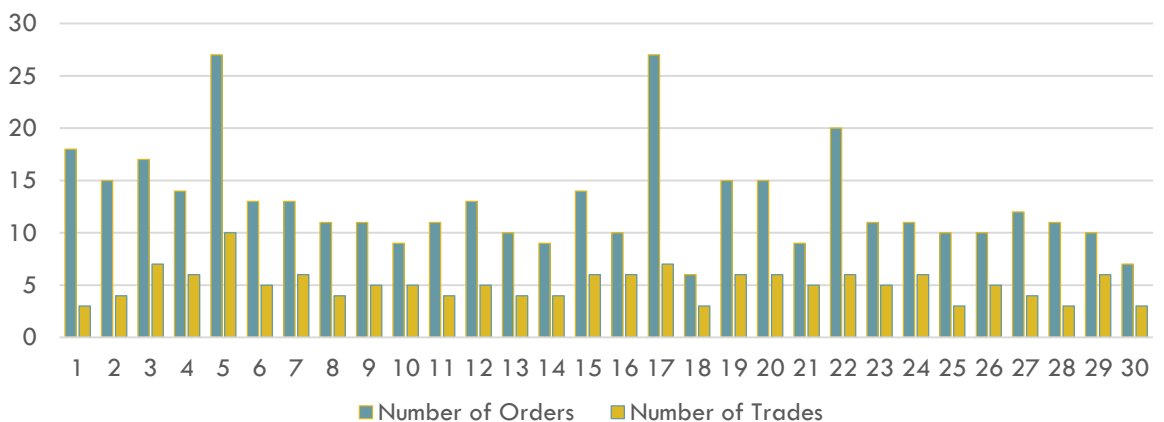
Natural Gas Market Number of Ordered Participants



Natural Gas Market Number of Orders

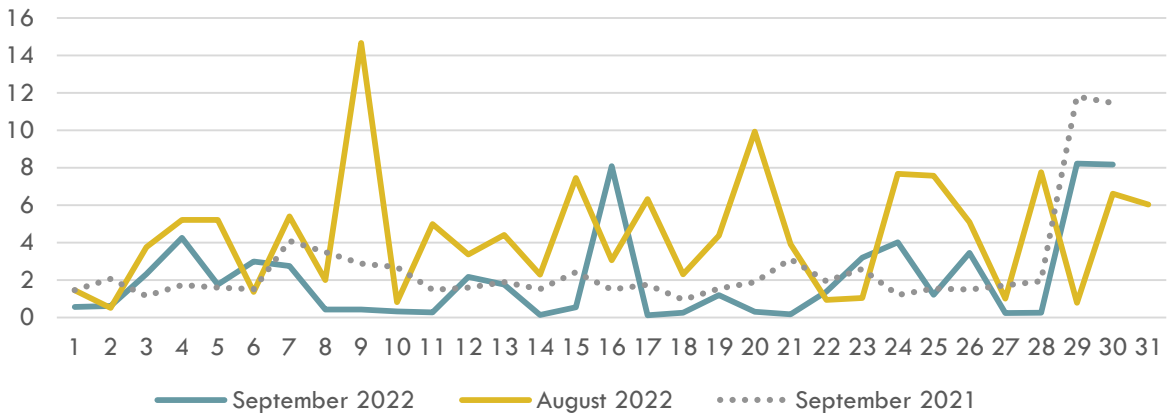


September 2022 Natural Gas Market Number of Orders and Trades

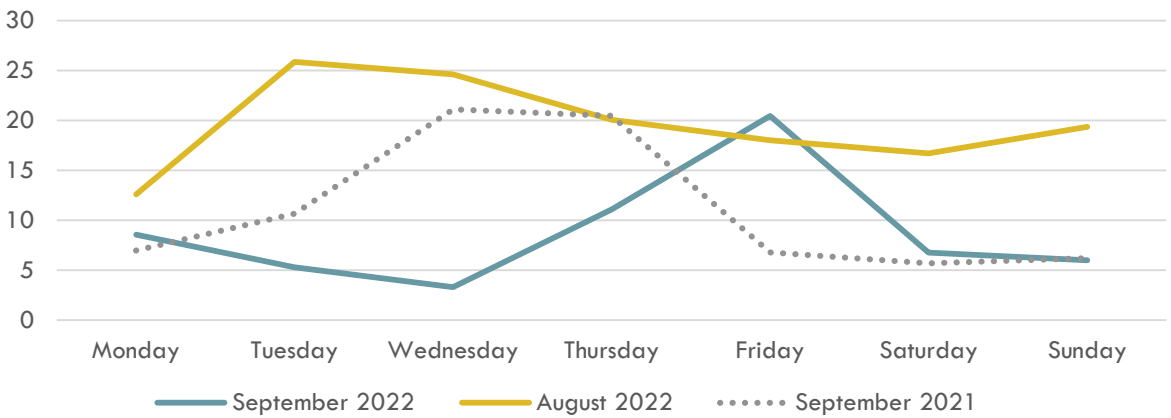


ORDERS, TRADES, VOLUMES (2/3)

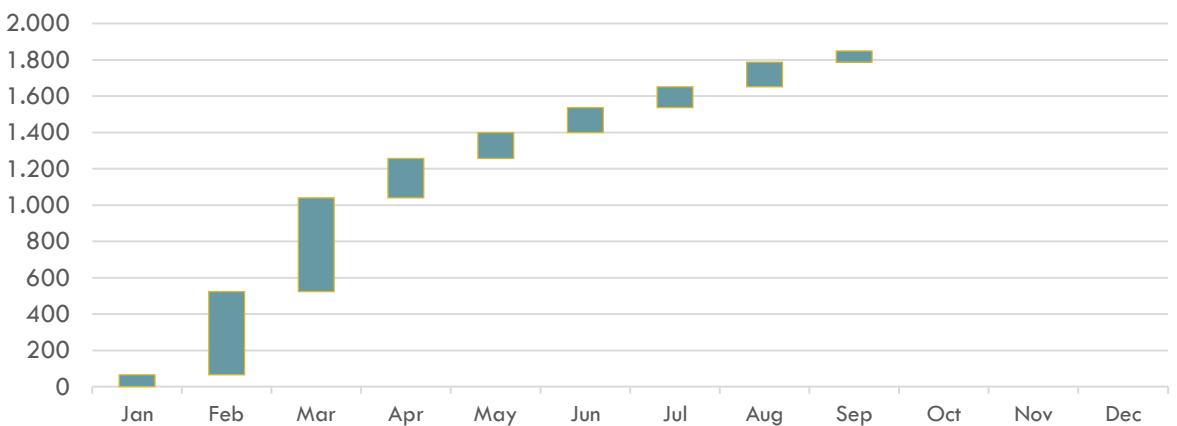
Natural Gas Market Trade Volume (mio.Sm³)



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

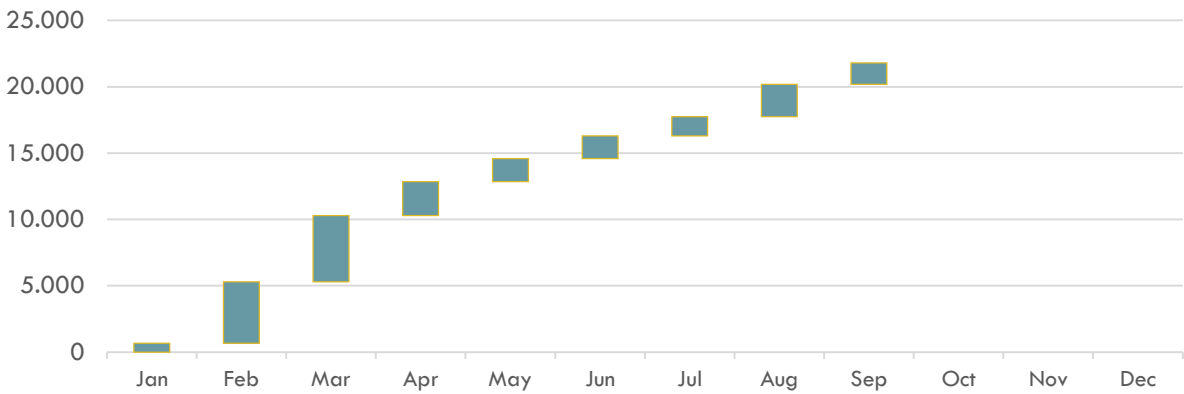


Natural Gas Market Annual Accumulated Trade Volume for 2022 (mio.Sm³)

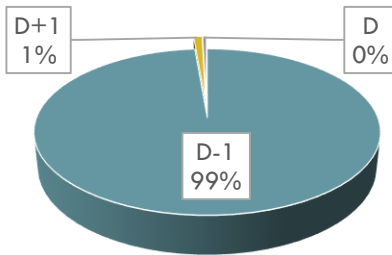


ORDERS, TRADES, VOLUMES (3/3)

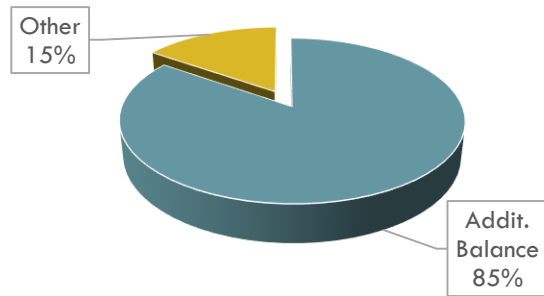
Natural Gas Market Annual Accumulated Transaction Volume for 2022 (Million TL)



Traded Volume of Daily Contracts for September 2022 Period by Sessions



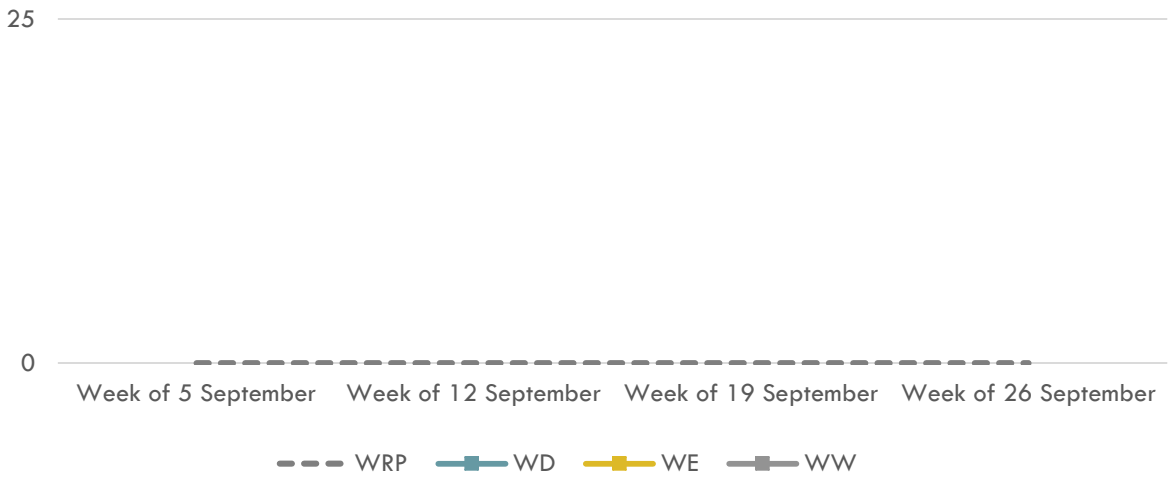
Additional Balancing Traded Volume for September 2022 Period



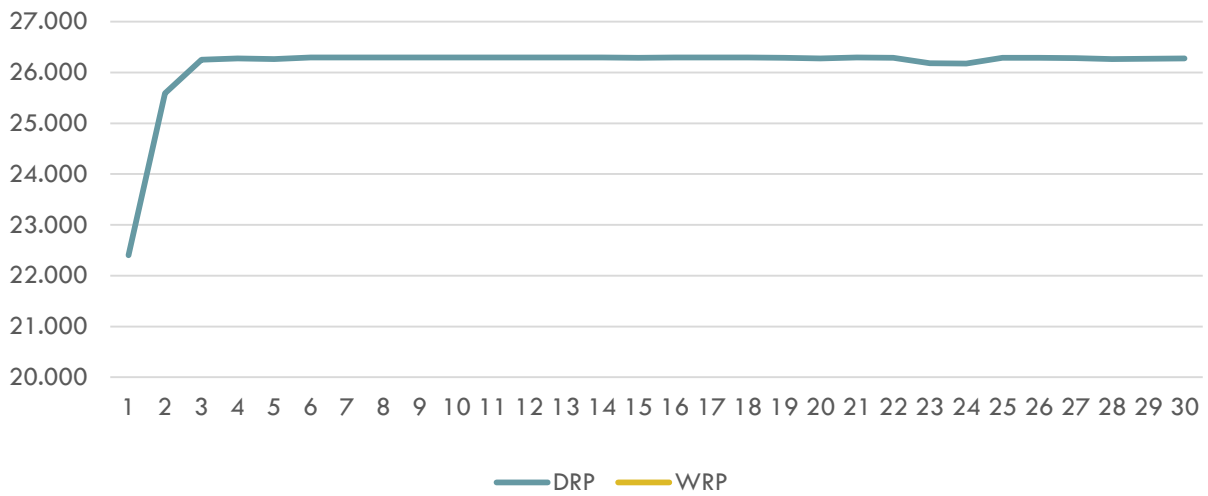
- ✓ The maximum total traded volume was 8.212 sm³ on 29 September 2022 Thu; the minimum total traded volume was realized at the level of 116 sm³ on 17 September 2022 Sat.
- ✓ The maximum total transaction volume was 215.740.634 TL on 29 September 2022 Thu; the minimum total transaction volume was realized at the level of 3.050.452 TL on 17 September 2022 Sat.
- ✓ The maximum d-1 traded volume was 8.162.000 sm³ on 30 September 2022 Fri; the minimum d-1 traded amount was realized at the level of 91.000 sm³ on 17 September 2022 Sat.
- ✓ The maximum d-1 traded volume was 214.489.738 TL on 30 September 2022 Fri; the minimum d-1 traded amount was realized at the level of 2.393.027 TL on 17 September 2022 Sat.
- ✓ The maximum d traded volume was 100.000 sm³ on 26 September 2022 Mon; the minimum d traded amount was realized at the level of 0 sm³ on 01 September 2022 Thu.
- ✓ The maximum d traded volume was 2.629.700 TL on 26 September 2022 Mon; the minimum d traded amount was realized at the level of 0 TL on 01 September 2022 Thu.
- ✓ The maximum d+1 traded volume was 127.000 sm³ on 01 September 2022 Thu; the minimum d+1 traded amount was realized at the level of 0 sm³ on 02 September 2022 Fri.
- ✓ The maximum d+1 traded volume was 3.234.531 TL on 07 September 2022 Wed; the minimum d+1 traded amount was realized at the level of 0 TL on 02 September 2022 Fri.
- ✓ The ratio of sgm compared to total consumption was realized at the level of 1,9% in September 2022.
- ✓ Sgm share in virtual trade was realized at 19,7% in September 2022.

WEEKLY PRODUCTS (1/2)

September 2022 WRP - WD - WE - WW (TL/'000 Sm³)

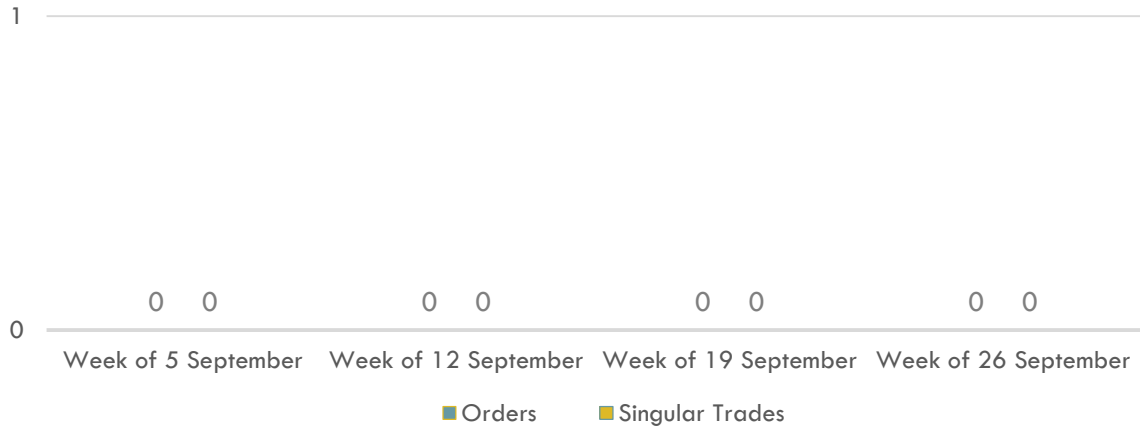


September 2022 DRP - WRP (TL/'000 Sm³)

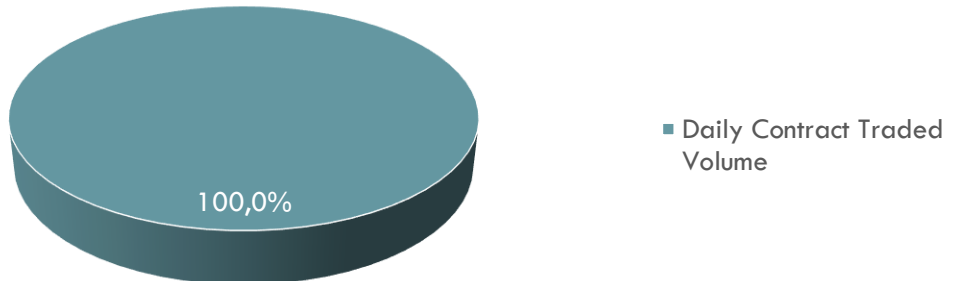


WEEKLY PRODUCTS (2/2)

September 2022 Weekly Products Number of Orders and Trades



September 2022 Traded Volume Distribution by Contract Type



SGM

Last 1 Year Trades

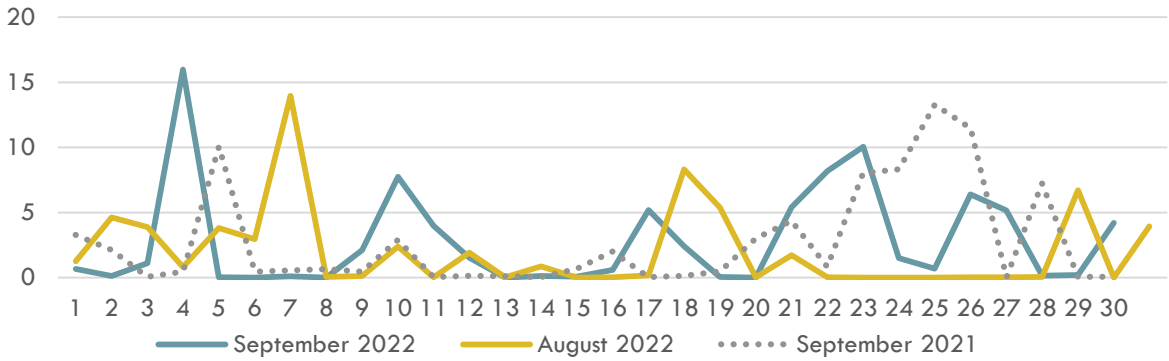
Period	Traded Volume (mio.Sm ³)	Traded Amount (TL)
Sep 2021	77,88	192.348.772
Oct 2021	86,87	272.972.795
Nov 2021	49,46	227.618.483
Dec 2021	76,85	327.403.990
Jan 2022	66,36	559.271.803
Feb 2022	458,09	1.044.258.193
Mar 2022	515,31	1.692.333.624
Apr 2022	216,42	1.565.597.680
May 2022	144,42	1.116.289.688
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

SGM's share in Total Cons. and Virtual Trade

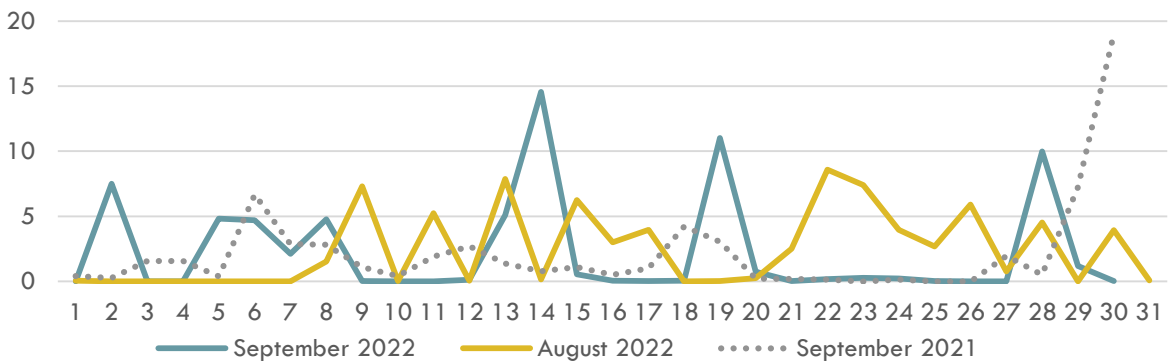
Period	Total Consumption (%)	Virtual Trade (%)
Sep 2021	1,9%	12,8%
Oct 2021	1,8%	10,9%
Nov 2021	0,9%	5,4%
Dec 2021	1,1%	8,4%
Jan 2022	0,9%	7,2%
Feb 2022	7,2%	31,9%
Mar 2022	7,3%	38,6%
Apr 2022	5,1%	40,5%
May 2022	3,9%	29,9%
Jun 2022	3,7%	28,2%
Jul 2022	3,4%	22,0%
Aug 2022	3,4%	29,6%
Sep 2022	1,9%	19,7%

TRANSMISSION SYSTEM DATA (1/2)

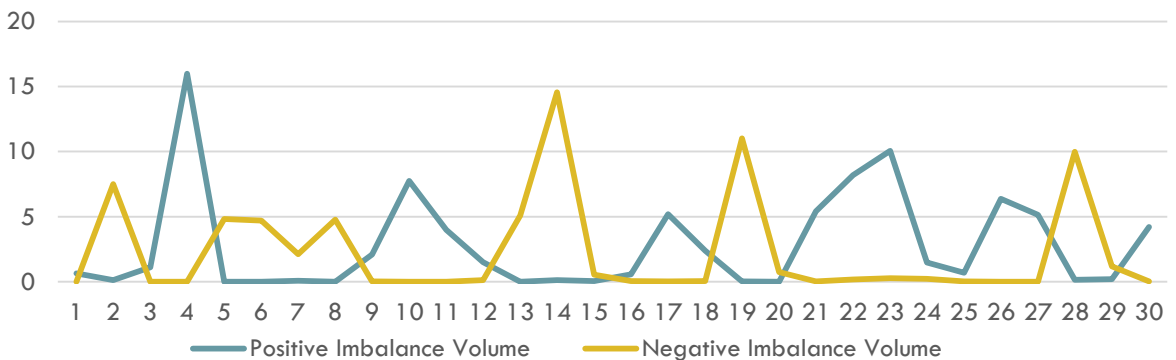
Natural Gas Market Positive Imbalance Volume (mio.Sm³)



Natural Gas Market Negative Imbalance Volume (mio.Sm³)



September 2022 Period Negative and Positive Imbalance Volume (mio.Sm³)

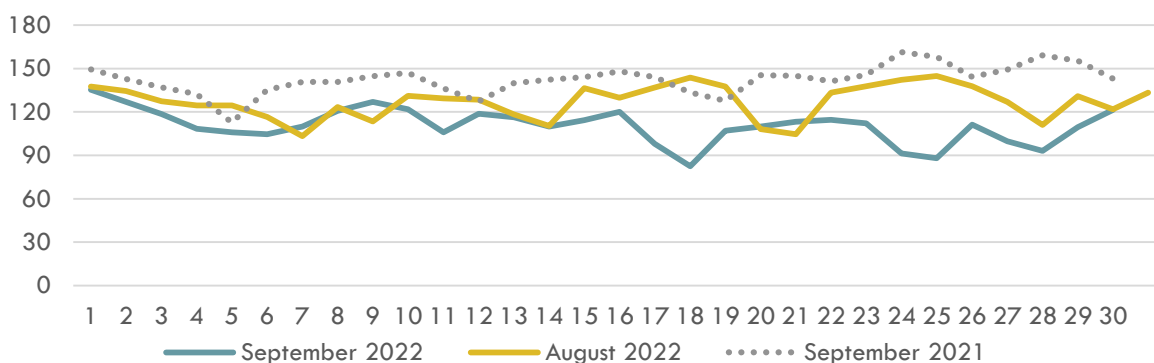


✓ The maximum positive imbalance volume was 15.983.704 sm³ on 04 September 2022 Sun; the minimum positive imbalance volume was realized at the level of 1.633 sm³ on 20 September 2022 Tue.

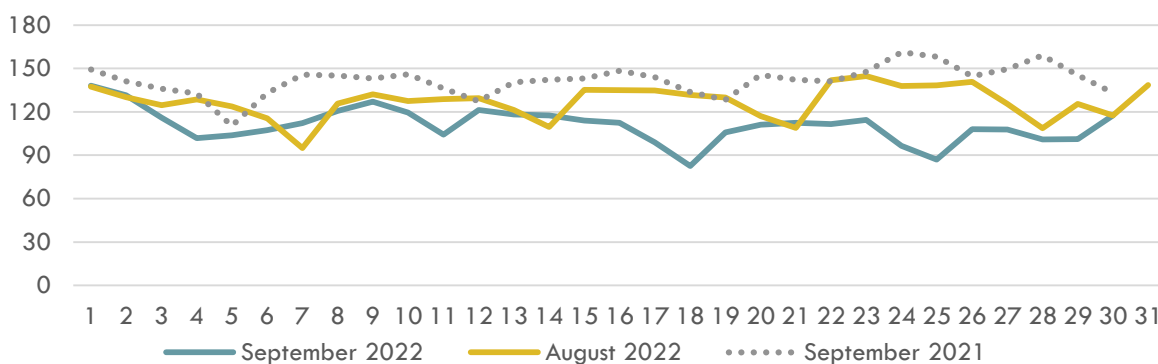
✓ The maximum negative imbalance volume was 14.560.305 sm³ on 14 September 2022 Wed; the minimum negative imbalance volume was realized at the level of 4.269 sm³ on 01 September 2022 Thu.

TRANSMISSION SYSTEM DATA (2/2)

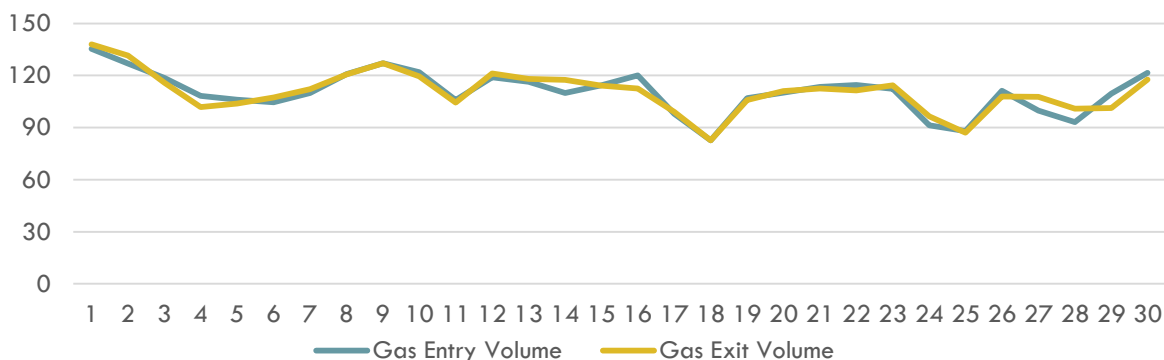
Natural Gas Market Gas Entry Volume (mio.Sm³)



Natural Gas Market Gas Exit Volume (mio.Sm³)



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



- ✓ Maximum gas entry volume realized on 01 September 2022 Thu was 135.390.407 sm³; minimum gas entry volume on 18 September 2022 Sun was 82.592.737 sm³ levels.
- ✓ Maximum gas exit volume realized on 01 September 2022 Thu was 138.024.477 sm³; minimum gas exit volume 18 September 2022 Sun was 82.649.743 sm³ levels.
- ✓ Maximum gas volume in stocks realized on 05 September 2022 Mon was 414.987.251 sm³; minimum stok gas volume 28 September 2022 Wed was 393.885.647 sm³ levels.

ADDITIONAL BALANCING TRANSACTIONS

Transactions with 1 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/'000 Sm ³)	Direction
01.09.2022	430	22.400	Sales
02.09.2022	480	26.297	Sales
03.09.2022	2.204	26.263	Purchase
04.09.2022	4.132	26.277	Purchase
05.09.2022	452	26.297	Sales
06.09.2022	2.369	26.297	Sales
07.09.2022	2.618	26.297	Sales
08.09.2022	294	26.297	Purchase
09.09.2022	320	26.297	Sales
10.09.2022	200	26.297	Purchase
11.09.2022	257	26.297	Sales
12.09.2022	2.157	26.297	Sales
13.09.2022	1.742	26.297	Sales
15.09.2022	147	26.297	Purchase
16.09.2022	7.709	26.297	Purchase
17.09.2022	90	26.297	Purchase
18.09.2022	140	26.297	Sales
19.09.2022	1.048	26.289	Purchase
20.09.2022	197	26.270	Purchase
21.09.2022	164	26.297	Purchase
22.09.2022	1.215	26.288	Sales
23.09.2022	1.070	26.000	Purchase
24.09.2022	1.853	26.068	Sales
25.09.2022	1.097	26.297	Sales
26.09.2022	3.317	26.289	Purchase
27.09.2022	104	26.280	Purchase
28.09.2022	129	26.250	Purchase
29.09.2022	8.082	26.271	Purchase
30.09.2022	8.032	26.279	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 8.082.000 sm³ on 29 September 2022 Thu; additional balancing transactions with a minimum code of 1 were realized at the level of 90.000 sm³ on 17 September 2022 Sat.
- ✓ 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.