

EPIAS

NATURAL GAS MARKET MONTHLY BULLETIN

OCTOBER 2022



SUMMARY DATA (1/2)

Arithmetic Means

	October 2022	September 2022	Monthly Change	October 2021	Annual Change
DRP (TL/'000 Sm ³)	25.493	26.127	-2.4%	3.171	704.0%
WRP (TL/'000 Sm ³)	0	0	-	3.424	-100.0%
BGPP (TL/'000 Sm ³)	26.258	27.017	-2.8%	3.404	671.5%
BGSP (TL/'000 Sm ³)	24.722	25.343	-2.5%	3.075	703.8%
Traded Volume (mio.Sm ³)	4,40	2,05	114.6%	2,80	56.9%
Transaction Volume (TL)	111.942.449	53.748.666	108.3%	8.805.574	1171.3%
Gas Entry Volume (mio.Sm ³)	103,50	110,56	-6.4%	157,39	-34.2%
Gas Exit Volume (mio.Sm ³)	104,00	110,72	-6.1%	157,46	-34.0%
Number of Ordered Participants	7	8	-4.1%	16	-55.2%
Number of Orders	11	13	-15.9%	52	-79.1%
Number of Trades	5	5	2.5%	21	-75.5%

Maximum / Minimum Levels

	October 2022		September 2022		October 2021	
	Max	Min	Max	Min	Max	Min
DRP (TL/'000 Sm ³)	26.100	23.500	26.297	22.400	3.424	2.483
WRP (TL/'000 Sm ³)	0	0	0	0	3.424	3.424
BGPP (TL/'000 Sm ³)	26.883	24.205	27.086	26.263	4.559	2.602
BGSP (TL/'000 Sm ³)	25.317	22.795	25.508	21.728	3.321	2.408
Traded Volume (mio.Sm ³)	16,09	0,08	8,21	0,12	7,02	0,15
Transaction Volume (TL)	419.871.325	1.832.975	215.740.634	3.050.452	22.691.168	458.816
Gas Entry Volume (mio.Sm ³)	129,11	74,19	135,39	82,59	188,27	130,24
Gas Exit Volume (mio.Sm ³)	126,90	70,31	138,02	82,65	185,81	130,12
Number of Ordered Participants	9	4	10	5	20	10
Number of Orders	18	4	27	6	96	12
Number of Trades	8	2	10	3	41	3

SUMMARY DATA (2/2)

Totals

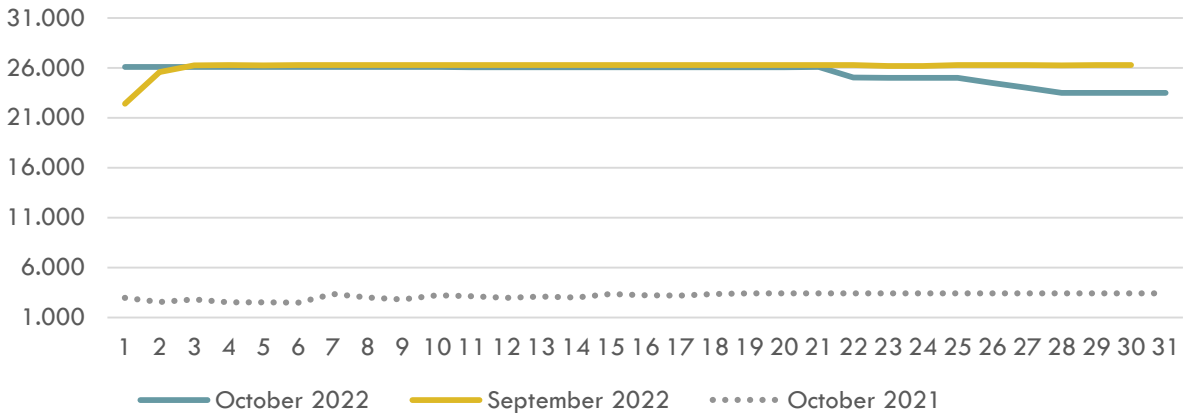
	October 2022	September 2022	Monthly Change	October 2021	Annual Change
Traded Volume (mio.Sm ³)	136,33	61,47	121.8%	86,87	56.9%
Transaction Volume (TL)	3.470.215.904	1.612.459.966	115.2%	272.972.795	1171.3%
Gas Entry Volume (mio.Sm ³)	3.208,49	3.316,80	-3.3%	4.879,16	-34.2%
Gas Exit Volume (mio.Sm ³)	3.223,96	3.321,70	-2.9%	4.881,14	-34.0%
Number of Orders	338	389	-13.1%	1.615	-79.1%
Number of Trades	161	152	5.9%	631	-74.5%
Total Production of Natural Gas Based Power Plants (MWh)	4.454.998	6.911.675	-35.5%	9.838.306	-54.7%
Total Electricity Generation (MWh)	23.100.435	25.224.194	-8.4%	24.167.329	-4.4%
Ratio of Natural Gas Based Generation to Total Electricity Generation (%)	19	27	-29.6%	41	-52.6%

Brent Oil and TTF Prices

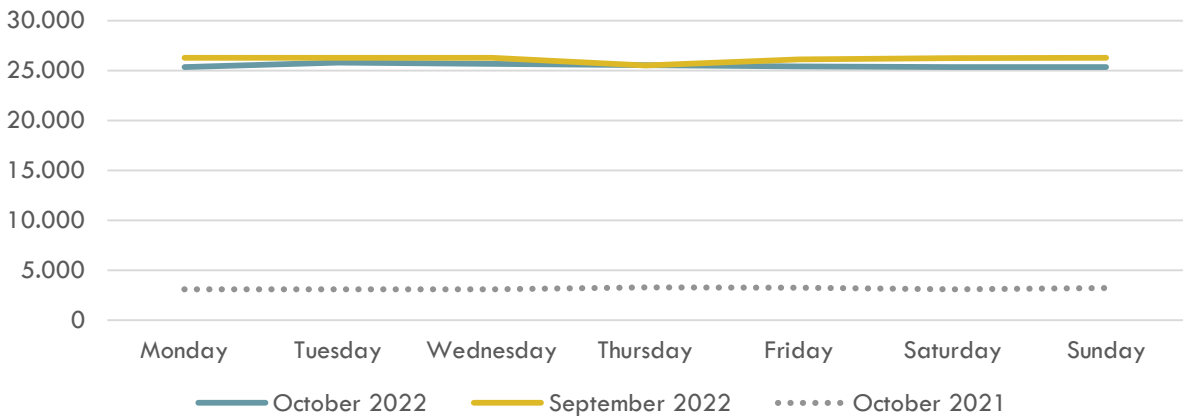
	October 2022	September 2022	Monthly Change	October 2021	Annual Change
Brent Oil(\$/bl)	93,59	90,57	3,34%	83,75	11,76%
TTF (€/MWh)	71,90	185,89	-61,32%	85,59	-15,99%

PRICES (1/2)

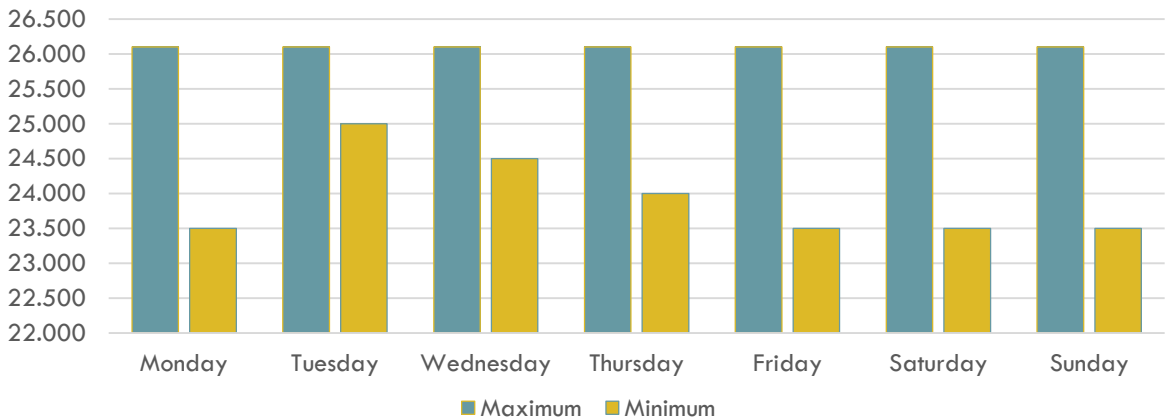
Natural Gas Market DRP (TL/'000 Sm³)



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

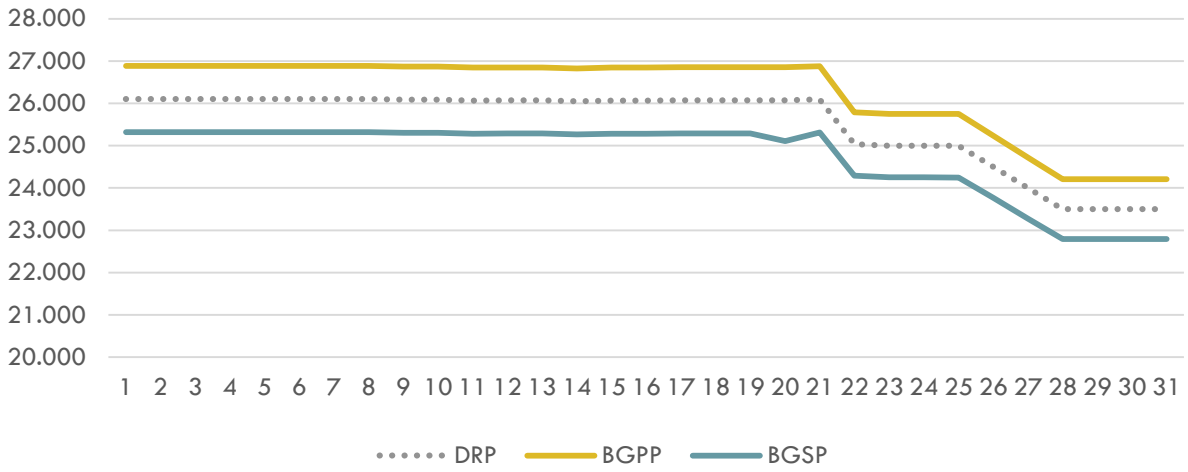


October 2022 Natural Gas Market By Days Max / Min DRP (TL/'000 Sm³)



PRICES (2/2)

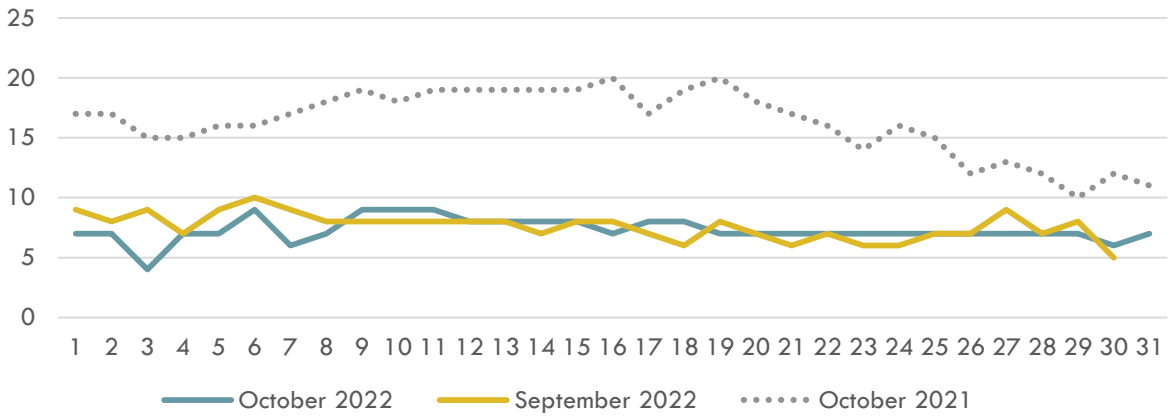
October 2022 DRP - BGPP - BGSP (TL/'000 Sm³)



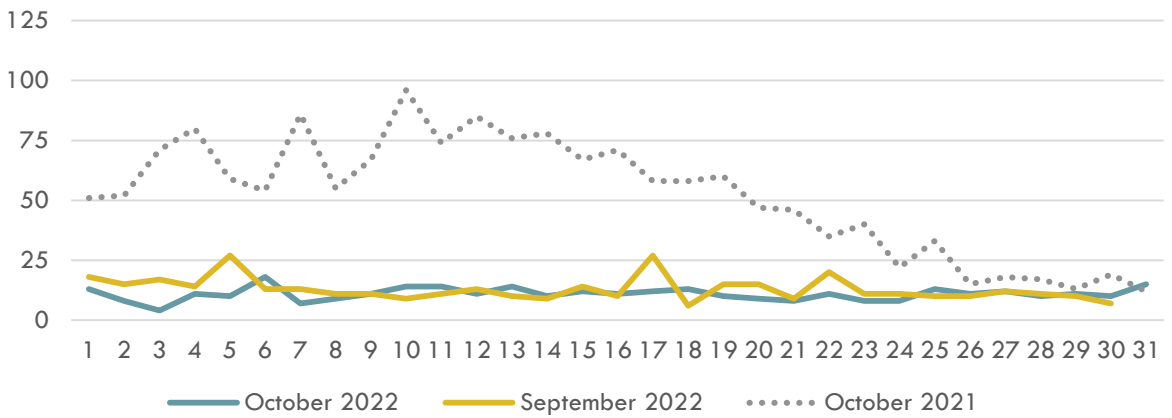
- ✓ The maximum DRP was 26.100 TL on 03 October 2022 Mon; the minimum DRP was realized at the level of 23.500 TL on 31 October 2022 Mon.
- ✓ The Maximum BGPP was 26.883 on 03 October 2022 Mon; the minimum BGPP was realized at the level of 24.205 TL on 31 October 2022 Mon.
- ✓ The maximum BGSP was 25.317 on 03 October 2022 Mon; the minimum BGSP was realized at the level of 22.795 TL on 31 October 2022 Mon.

ORDERS, TRADES, VOLUMES (1/3)

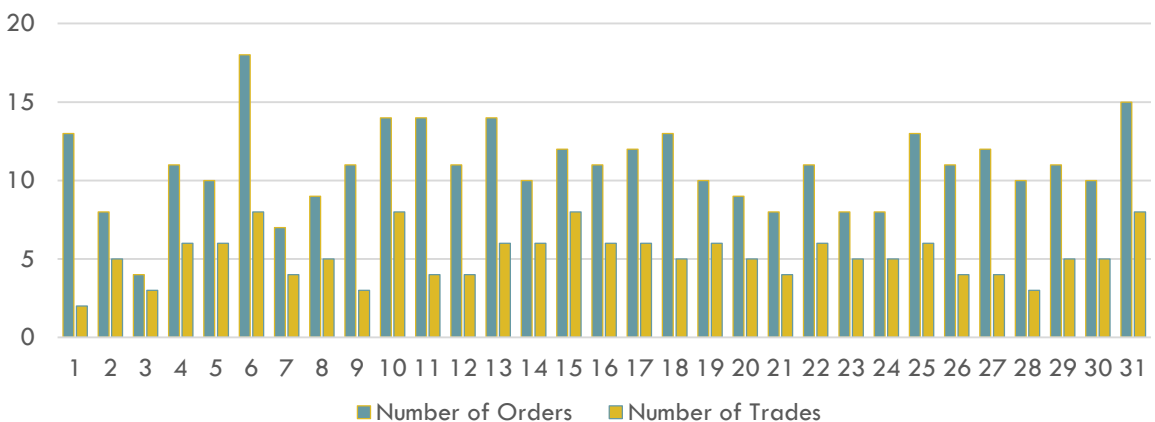
Natural Gas Market Number of Ordered Participants



Natural Gas Market Number of Orders

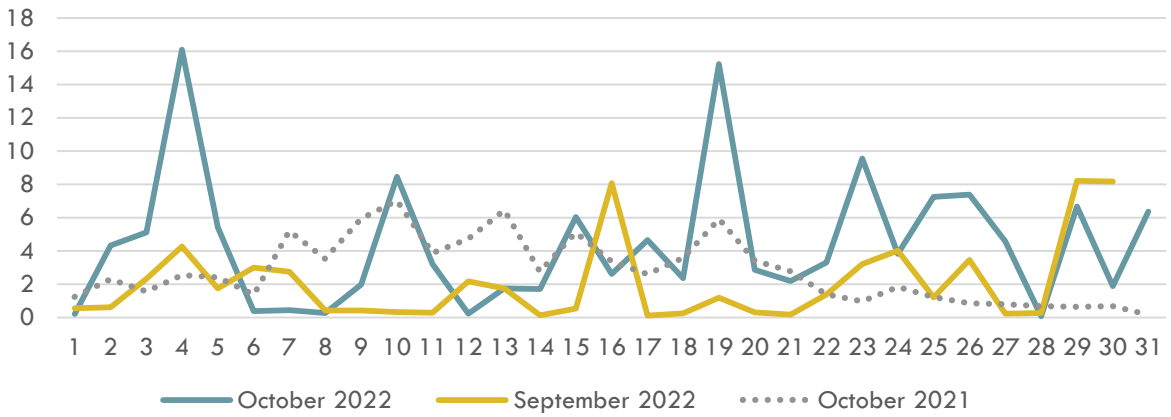


October 2022 Natural Gas Market Number of Orders and Trades

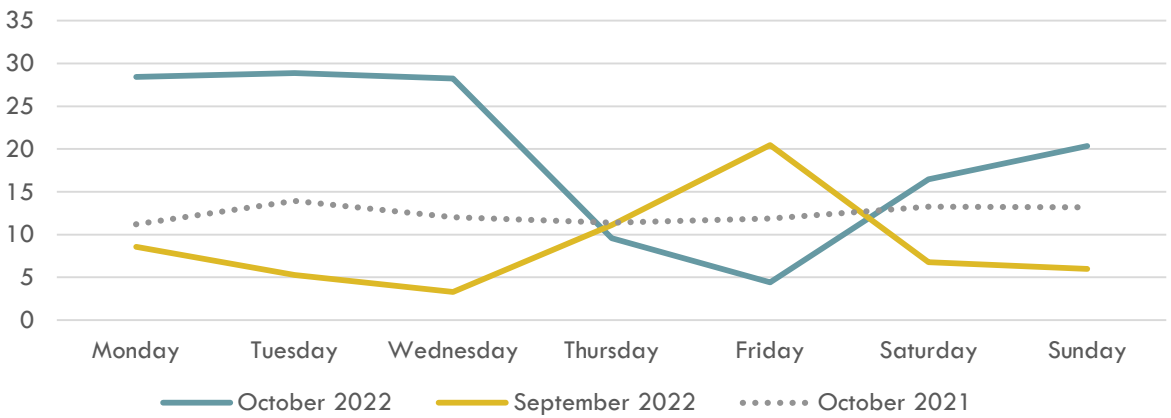


ORDERS, TRADES, VOLUMES (2/3)

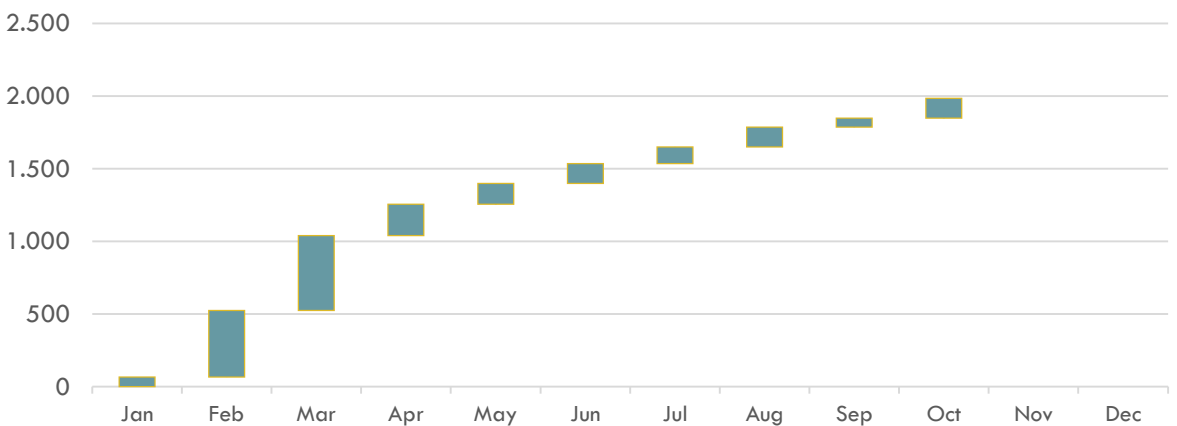
Natural Gas Market Trade Volume (mio.Sm³)



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

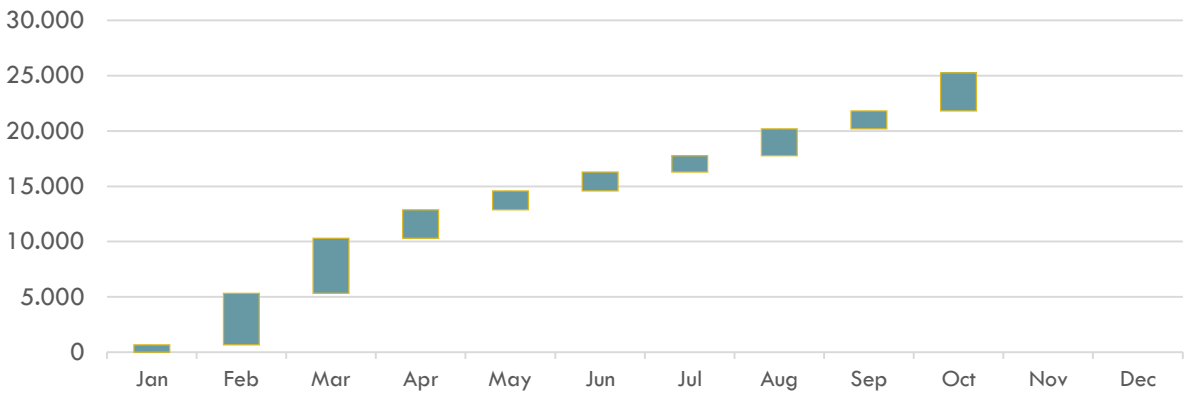


Natural Gas Market Annual Accumulated Trade Volume for 2022 (mio.Sm³)

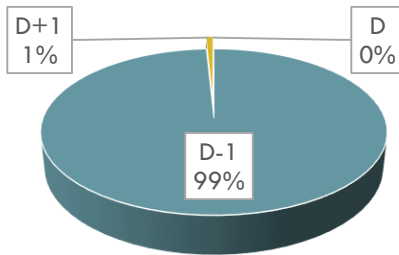


ORDERS, TRADES, VOLUMES (3/3)

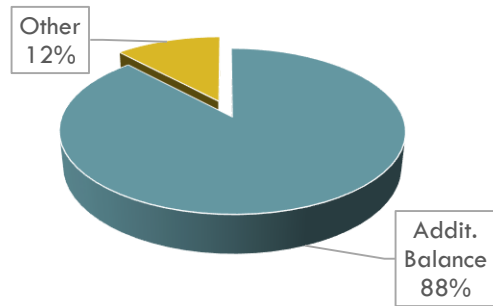
Natural Gas Market Annual Accumulated Transaction Volume for 2022 (Million TL)



Traded Volume of Daily Contracts for October 2022 Period by Sessions



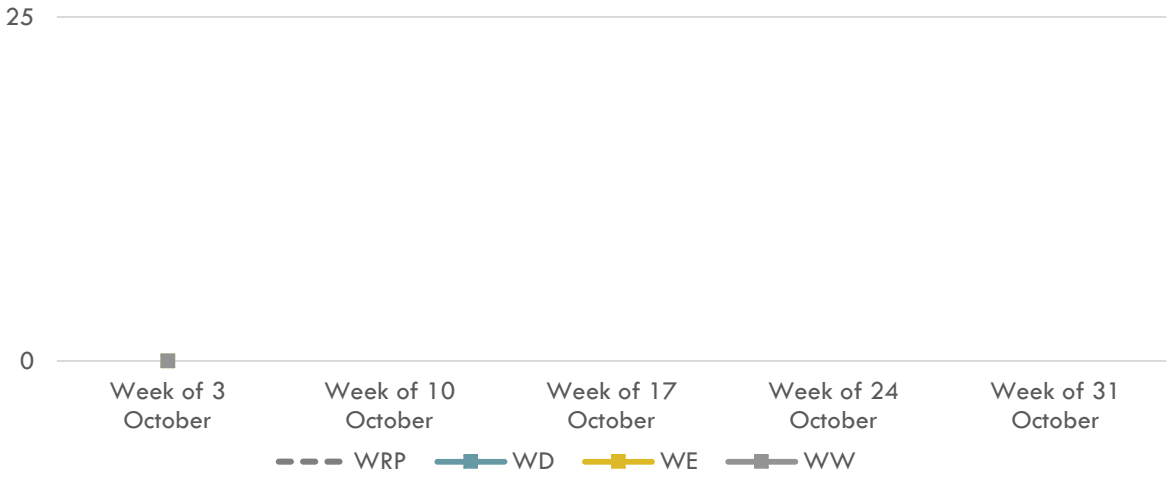
Additional Balancing Traded Volume for October 2022 Period



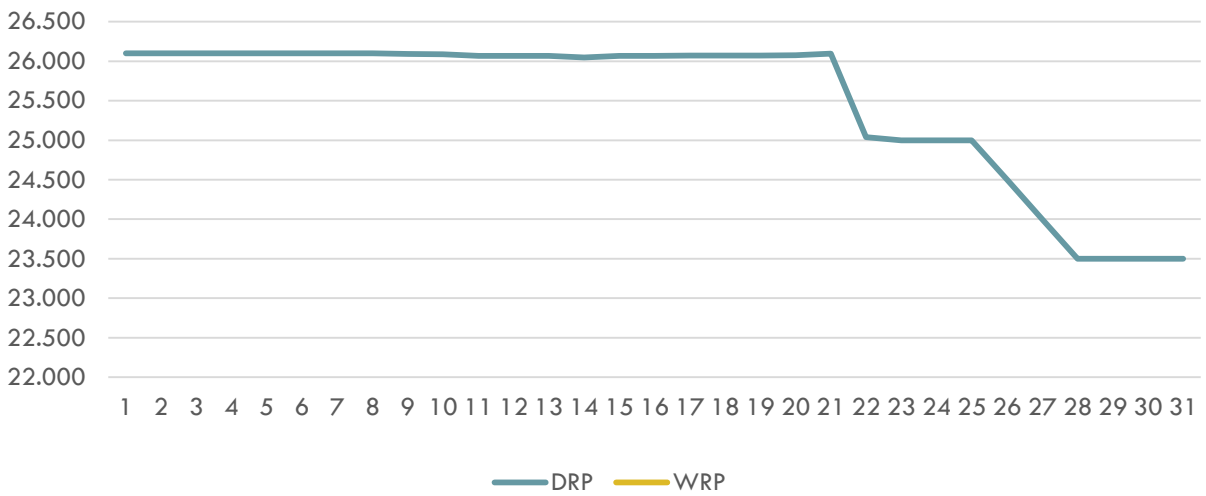
- ✓ The maximum total traded volume was 16.087 sm³ on 04 October 2022 Tue; the minimum total traded volume was realized at the level of 78 sm³ on 28 October 2022 Fri.
- ✓ The maximum total transaction volume was 419.871.325 TL on 04 October 2022 Tue; the minimum total transaction volume was realized at the level of 1.832.975 TL on 28 October 2022 Fri.
- ✓ The maximum d-1 traded volume was 16.080.000 sm³ on 04 October 2022 Tue; the minimum d-1 traded amount was realized at the level of 78.000 sm³ on 28 October 2022 Fri.
- ✓ The maximum d-1 traded volume was 419.688.625 TL on 04 October 2022 Tue; the minimum d-1 traded amount was realized at the level of 1.832.975 TL on 28 October 2022 Fri.
- ✓ The maximum d traded volume was 0 sm³ on 01 October 2022 Sat; the minimum d traded amount was realized at the level of 0 sm³ on 01 October 2022 Sat.
- ✓ The maximum d traded volume was 0 TL on 01 October 2022 Sat; the minimum d traded amount was realized at the level of 0 TL on 01 October 2022 Sat.
- ✓ The maximum d+1 traded volume was 460.000 sm³ on 25 October 2022 Tue; the minimum d+1 traded amount was realized at the level of 0 sm³ on 03 October 2022 Mon.
- ✓ The maximum d+1 traded volume was 11.499.080 TL on 25 October 2022 Tue; the minimum d+1 traded amount was realized at the level of 0 TL on 03 October 2022 Mon.
- ✓ The ratio of sgm compared to total consumption was realized at the level of 4,2% in October 2022.
- ✓ Sgm share in virtual trade was realized at 27,9% in October 2022.

WEEKLY PRODUCTS (1/2)

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

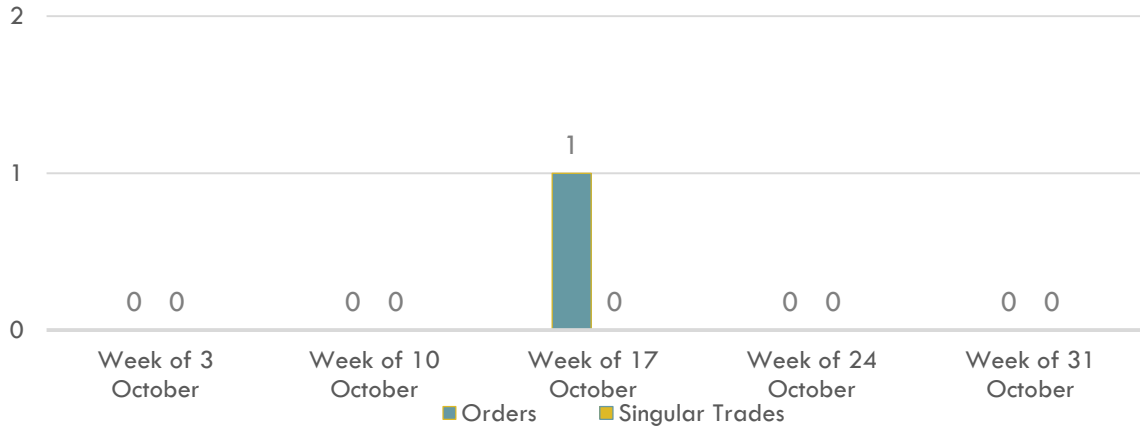


October 2022 DRP - WRP (TL/'000 Sm³)

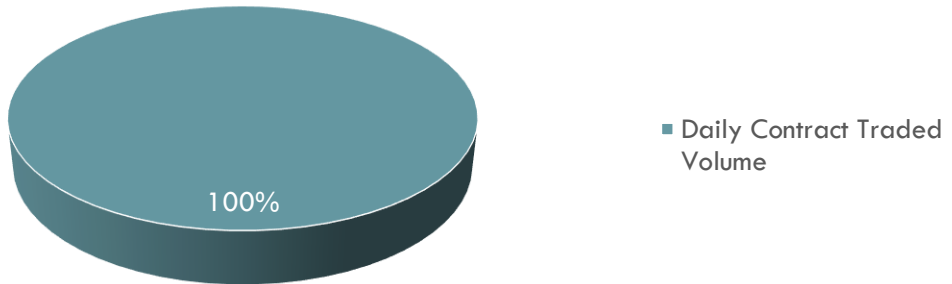


WEEKLY PRODUCTS (2/2)

October 2022 Weekly Products Number of Orders and Trades



October 2022 Traded Volume Distribution by Contract Type



SGM

Last 1 Year Trades

Period	Traded Volume (mio.Sm ³)	Traded Amount (TL)
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
Oct 2022	136,33	1.370.215.904

SGM's share in Total Cons. and Virtual Trade

Period	Total Consumption (%)	Virtual Trade (%)
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%
Oct 2022	4,2%	27,9%

GAS FUTURES MARKET (1/1)

Daily Indicator Price For Contracts (TL)

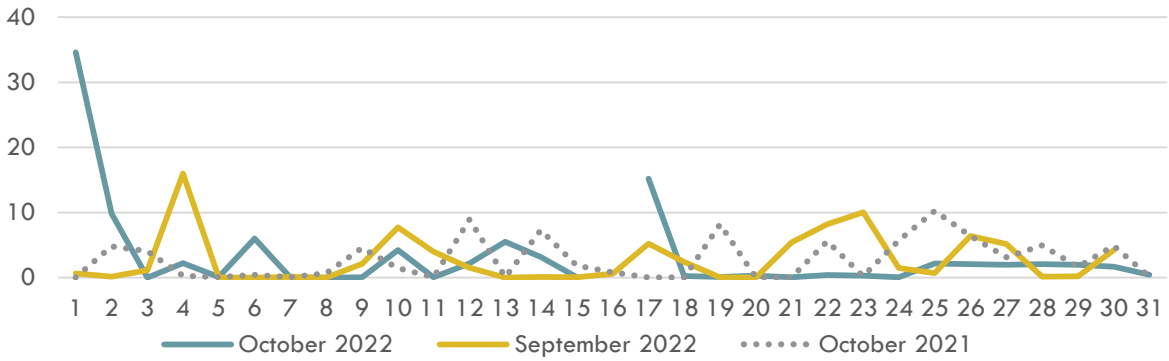
Contract Name	Average Daily Indicator Price (TL)	Minimum Daily Indicator Price (TL)	Maximum Daily Indicator Price (TL)
GM2211	21.521	21.521	21.521
GM2212	22.389	22.389	22.389
GM2301	22.381	22.381	22.381
GM2302	22.819	22.819	22.819
GM2303	23.397	23.397	23.397
GM2304	21.174	21.174	21.174
GM2305	21.732	21.732	21.732
GM2306	22.312	22.312	22.312
GM2307	21.644	21.644	21.644
GM2308	21.920	21.920	21.920
GM2309	23.022	23.022	23.022
GM2310	23.119	23.119	23.119
GQ2301	22.867	22.867	22.867
GQ2302	21.739	21.739	21.739
GQ2303	22.187	22.187	22.187
GQ2304	23.720	23.720	23.720
GY23	22.629	22.629	22.629

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

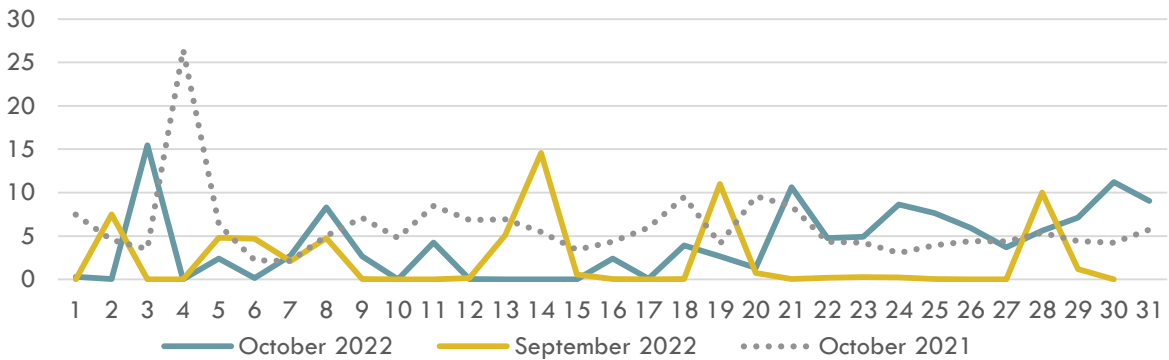
Contract Name	Traded Volume (mio.Sm3)	Traded Amount (TL)	Average Price (TL)
-	-	-	-

TRANSMISSION SYSTEM DATA (1/2)

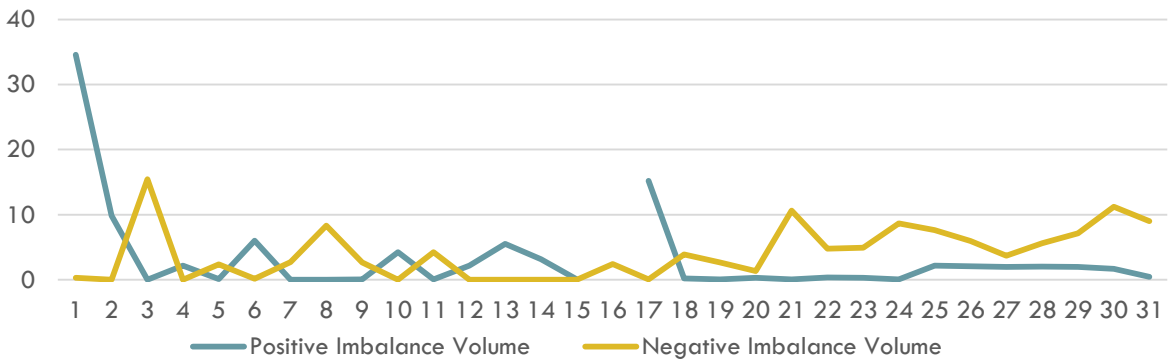
Natural Gas Market Positive Imbalance Volume (mio.Sm³)



Natural Gas Market Negative Imbalance Volume (mio.Sm³)



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

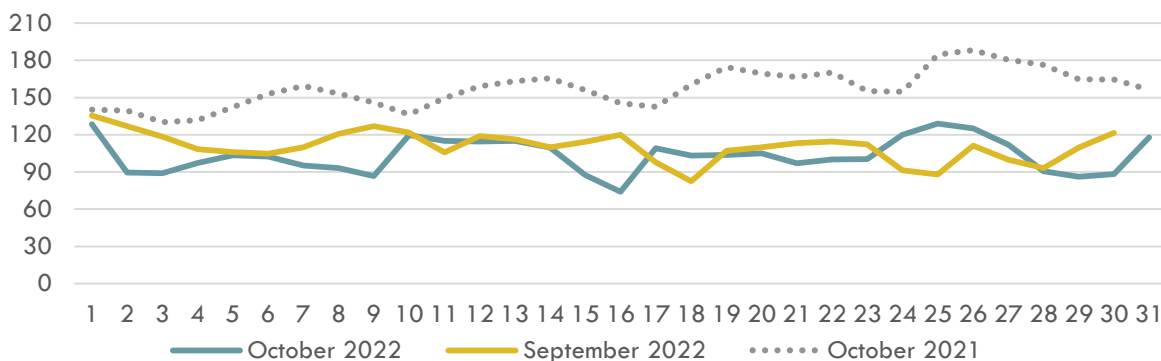


✓ The maximum positive imbalance volume was 34.580.614 sm³ on 01 October 2022 Sat; the minimum positive imbalance volume was realized at the level of 0 sm³ on 16 October 2022 Sun.

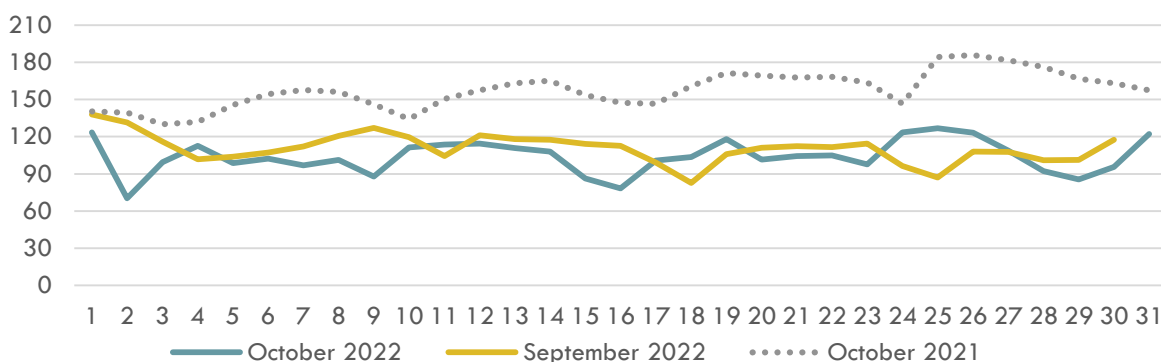
✓ The maximum negative imbalance volume was 15.449.725 sm³ on 03 October 2022 Mon; the minimum negative imbalance volume was realized at the level of 21.456 sm³ on 14 October 2022 Fri.

TRANSMISSION SYSTEM DATA (2/2)

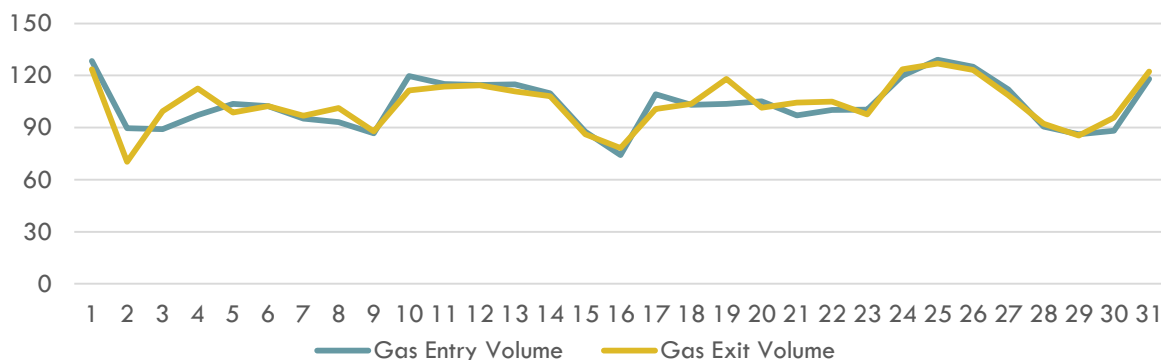
Natural Gas Market Gas Entry Volume (mio.Sm³)



Natural Gas Market Gas Exit Volume (mio.Sm³)



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



- ✓ Maximum gas entry volume realized on 25 October 2022 Tue was 129.111.483 sm³; minimum gas entry volume on 16 October 2022 Sun was 74.188.761 sm³ levels.
- ✓ Maximum gas exit volume realized on 25 October 2022 Tue was 126.904.440 sm³; minimum gas exit volume 02 October 2022 Sun was 70.310.190 sm³ levels.
- ✓ Maximum gas volume in stocks realized on 02 October 2022 Sun was 430.197.384 sm³; minimum stok gas volume 31 October 2022 Mon was 390.546.879 sm³ levels.

ADDITIONAL BALANCING TRANSACTIONS

Transactions with 1 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/'000 Sm ³)	Direction
01.10.2022	206	26.100	Sales
02.10.2022	4.193	26.100	Purchase
03.10.2022	5.117	26.100	Sales
04.10.2022	15.080	26.100	Sales
05.10.2022	5.288	26.100	Purchase
06.10.2022	213	26.099	Purchase
07.10.2022	321	26.099	Purchase
08.10.2022	152	26.098	Purchase
09.10.2022	1.861	26.090	Purchase
10.10.2022	8.333	26.089	Purchase
11.10.2022	3.073	26.065	Purchase
12.10.2022	100	26.072	Purchase
13.10.2022	1.623	26.069	Purchase
14.10.2022	202	26.045	Sales
15.10.2022	2.543	26.093	Sales
16.10.2022	1.844	26.075	Sales
17.10.2022	3.874	26.074	Sales
18.10.2022	2.220	26.069	Purchase
19.10.2022	12.434	26.070	Sales
20.10.2022	2.715	26.074	Purchase
21.10.2022	2.038	26.096	Purchase
22.10.2022	1.013	25.107	Sales
23.10.2022	9.426	25.000	Purchase
24.10.2022	3.675	24.999	Purchase
25.10.2022	6.625	24.999	Purchase
26.10.2022	7.222	24.500	Purchase
27.10.2022	4.418	23.999	Purchase
29.10.2022	6.560	23.500	Purchase
30.10.2022	1.742	23.500	Purchase
31.10.2022	5.942	23.500	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 15.080.000 sm³ on 04 October 2022 Tue; additional balancing transactions with a minimum code of 1 were realized at the level of 100.000 sm³ on 12 October 2022 Wed.
- ✓ In October, no additional balancing transaction code of 2 was realized.
- ✓ In October, no additional balancing transaction code of 3 was realized.
- ✓ In October, no additional balancing transaction code of 4 was realized.