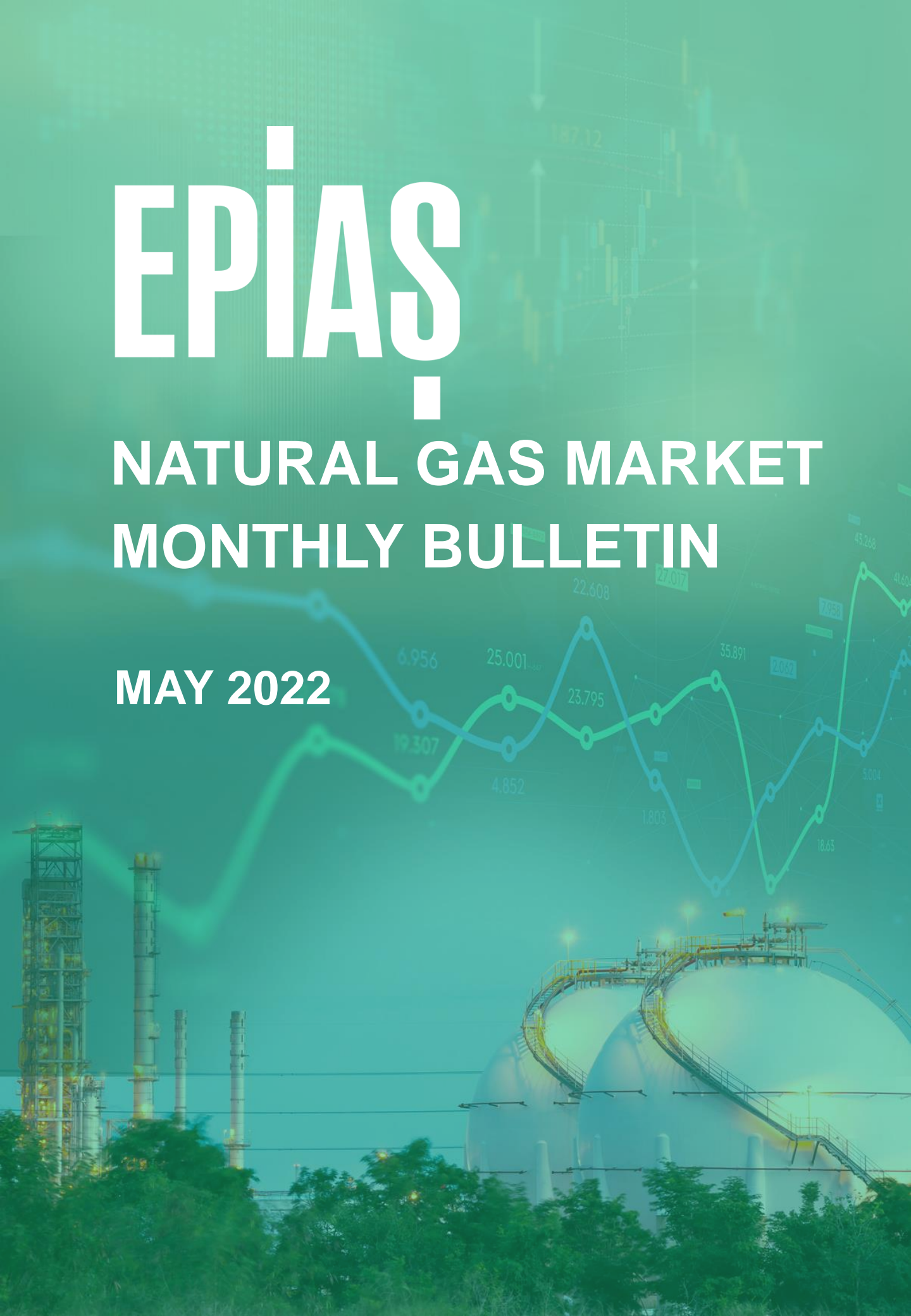


EPIAS

NATURAL GAS MARKET MONTHLY BULLETIN

MAY 2022



SUMMARY DATA (1/2)

Arithmetic Means

	May 2022	April 2022	Monthly Change	May 2021	Annual Change
DRP (TL/'000 Sm ³)	11.876	11.863	0.1%	1.730	586.6%
WRP (TL/'000 Sm ³)	0	0	-	0	-
BGPP (TL/'000 Sm ³)	12.234	12.219	0.1%	1.781	586.9%
BGSP (TL/'000 Sm ³)	11.520	11.507	0.1%	1.678	586.6%
Traded Volume (mio.Sm ³)	4,66	7,21	-35.4%	3,98	16.9%
Transaction Volume (TL)	55.364.183	85.519.923	-35.3%	6.874.729	705.3%
Gas Entry Volume (mio.Sm ³)	116,88	138,12	-15.4%	118,03	-1.0%
Gas Exit Volume (mio.Sm ³)	116,34	139,50	-16.6%	118,13	-1.5%
Number of Ordered Participants	7	10	-31.9%	22	-68.8%
Number of Orders	11	22	-50.7%	75	-85.2%
Number of Trades	4	8	-47.7%	38	-89.2%

Maximum / Minimum Levels

	May 2022		April 2022		May 2021	
	Max	Min	Max	Min	Max	Min
DRP (TL/'000 Sm ³)	12.061	11.506	11.989	11.675	1.756	1.692
WRP (TL/'000 Sm ³)	0	0	0	0	0	0
BGPP (TL/'000 Sm ³)	12.423	11.851	12.349	12.025	1.808	1.743
BGSP (TL/'000 Sm ³)	11.700	11.161	11.629	11.325	1.703	1.641
Traded Volume (mio.Sm ³)	13,83	0,05	26,14	0,11	6,64	1,97
Transaction Volume (TL)	163.874.620	610.000	309.033.795	1.238.500	11.218.396	3.459.613
Gas Entry Volume (mio.Sm ³)	143,47	75,60	170,53	103,14	146,64	84,92
Gas Exit Volume (mio.Sm ³)	136,41	77,61	171,95	106,78	147,20	87,60
Number of Ordered Participants	11	4	16	7	25	20
Number of Orders	23	7	56	11	101	53
Number of Trades	8	1	23	2	48	24

SUMMARY DATA (2/2)

Totals

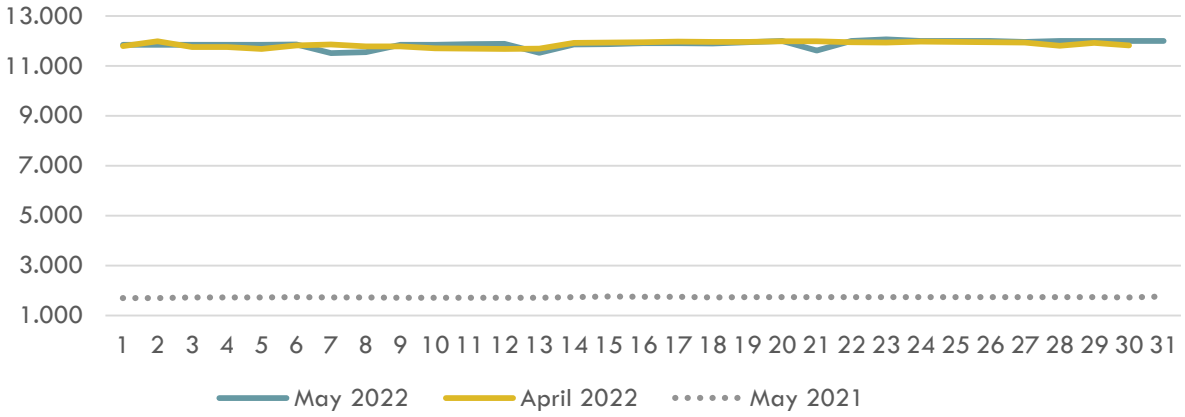
	May 2022	April 2022	Monthly Change	May 2021	Annual Change
Traded Volume (mio.Sm ³)	144,42	216,42	-33.3%	123,50	16.9%
Transaction Volume (TL)	1.716.289.688	2.565.597.680	-33.1%	213.116.614	705.3%
Gas Entry Volume (mio.Sm ³)	3.623,14	4.143,70	-12.6%	3.658,98	-1.0%
Gas Exit Volume (mio.Sm ³)	3.606,63	4.184,93	-13.8%	3.661,97	-1.5%
Number of Orders	343	673	-49.0%	2.320	-85.2%
Number of Trades	126	233	-45.9%	1.166	-89.2%
Total Production of Natural Gas Based Power Plants (MWh)	3.904.632	4.053.345	-3.7%	6.163.134	-36.6%
Total Electricity Generation (MWh)	23.548.494	24.100.186	-2.3%	23.151.242	1.7%
Ratio of Natural Gas Based Generation to Total Electricity Generation (%)	17	17	-1.4%	27	-37.7%

Brent Oil and TTF Prices

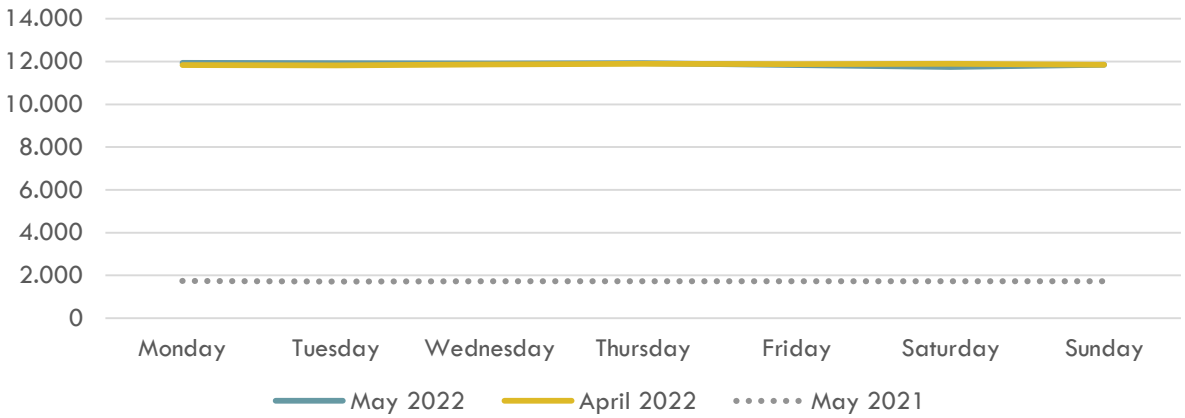
	May 2022	April 2022	Monthly Change	May 2021	Annual Change
Brent Oil(\$/bl)	111,95	105,92	5,69%	68,31	63,89%
TTF (€/MWh)	88,23	99,09	-10,96%	25,14	250,95%

PRICES (1/2)

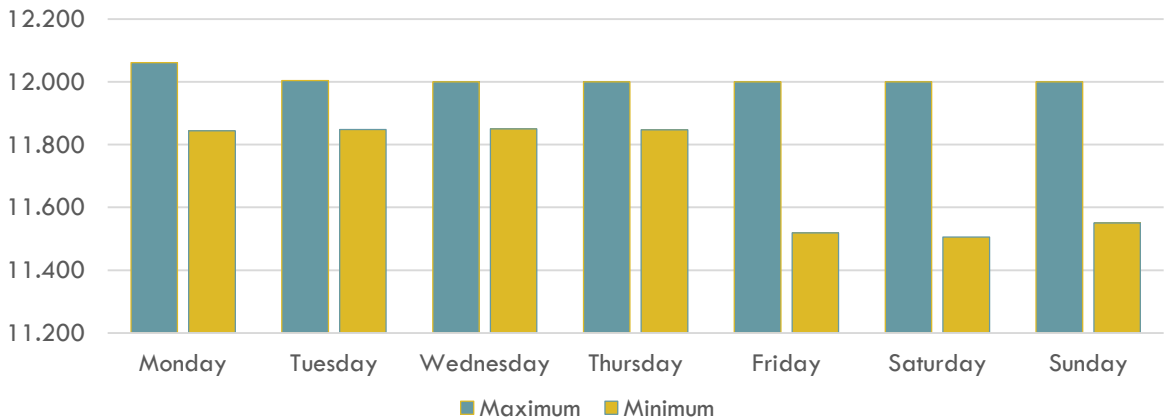
Natural Gas Market DRP (TL/'000 Sm³)



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

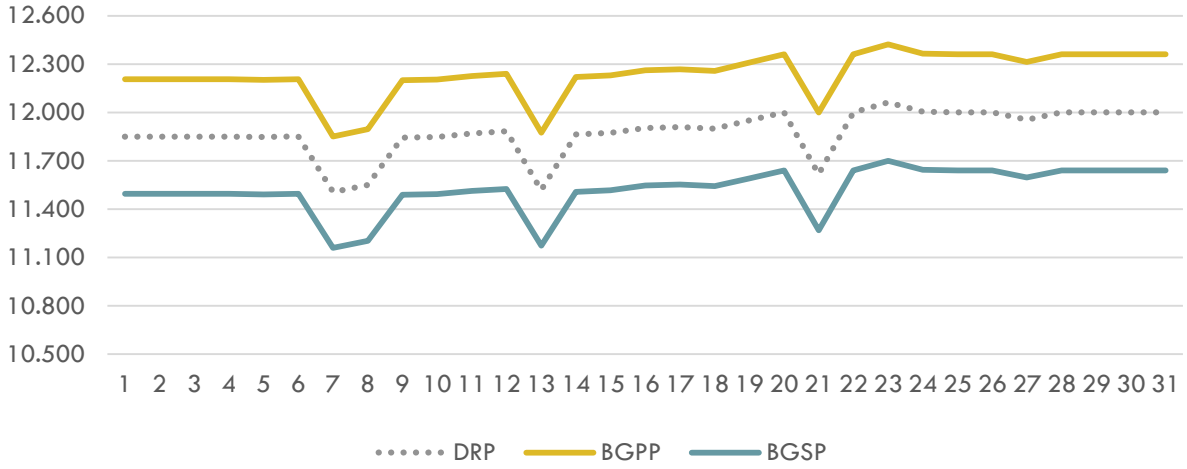


May 2022 Natural Gas Market By Days Max / Min DRP (TL/'000 Sm³)



PRICES (2/2)

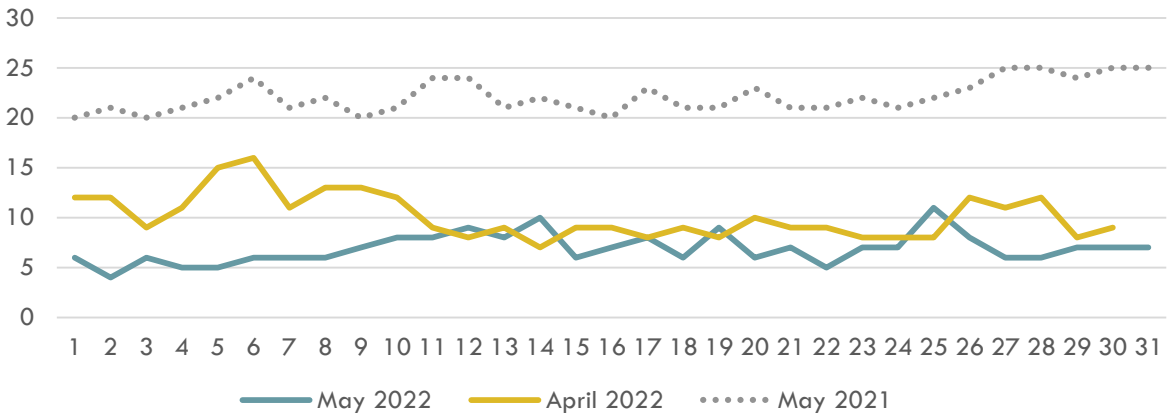
May 2022 DRP - BGPP - BGSP (TL/‘000 Sm³)



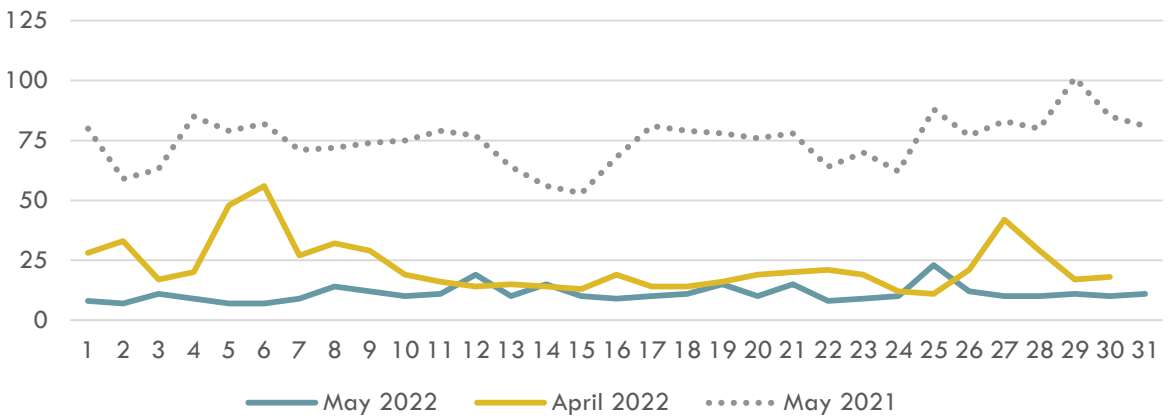
- ✓ The maximum DRP was 12.061 TL on 23 May 2022 Mon; the minimum DRP was realized at the level of 11.506 TL on 07 May 2022 Sat.
- ✓ The Maximum BGPP was 12.423 on 23 May 2022 Mon; the minimum BGPP was realized at the level of 11.851 TL on 07 May 2022 Sat.
- ✓ The maximum BGSP was 11.700 on 23 May 2022 Mon; the minimum BGSP was realized at the level of 11.161 TL on 07 May 2022 Sat.

ORDERS, TRADES, VOLUMES (1/3)

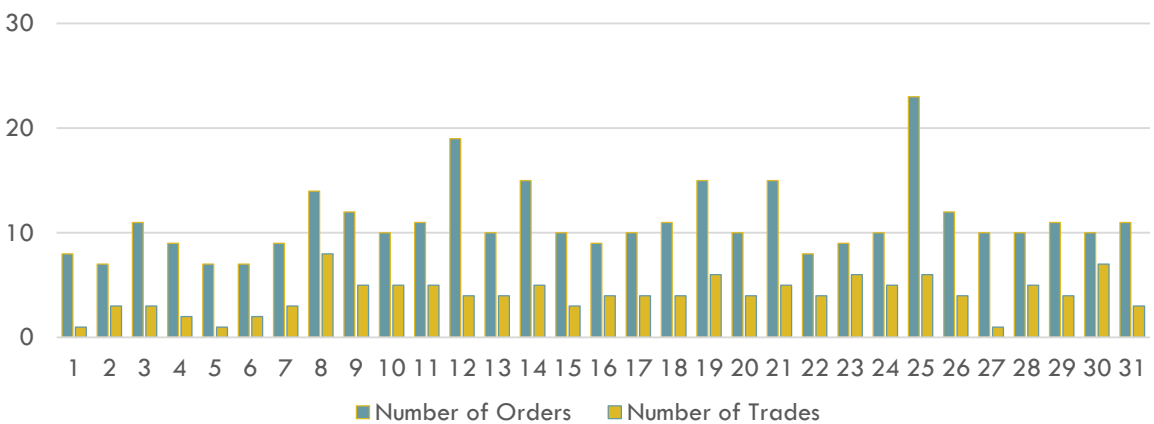
Natural Gas Market Number of Ordered Participants



Natural Gas Market Number of Orders

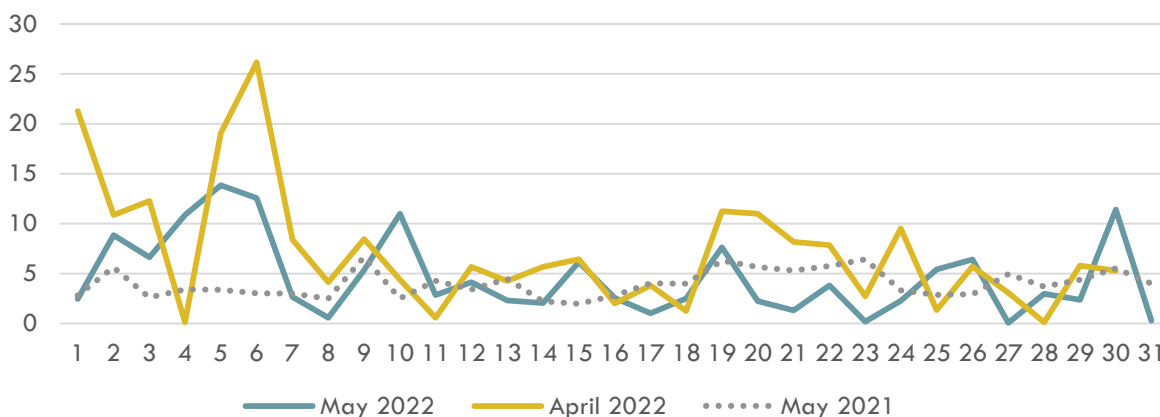


May 2022 Natural Gas Market Number of Orders and Trades

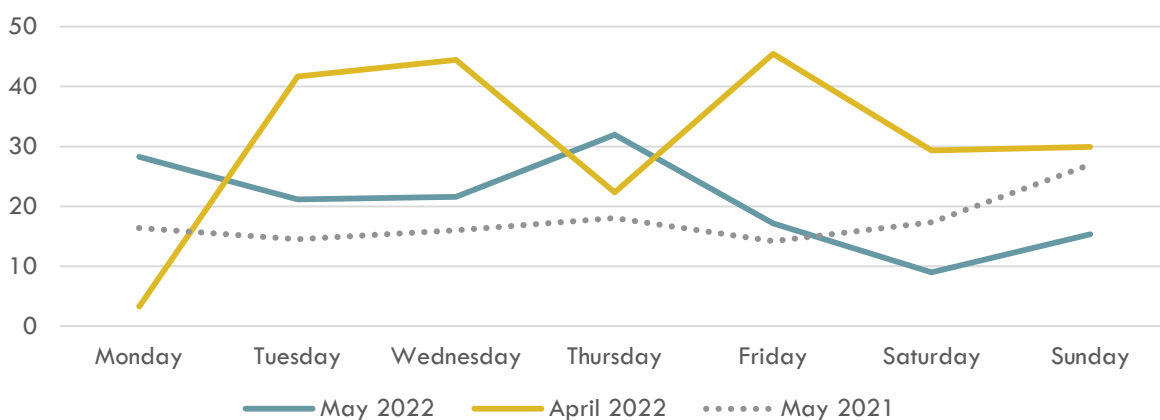


ORDERS, TRADES, VOLUMES (2/3)

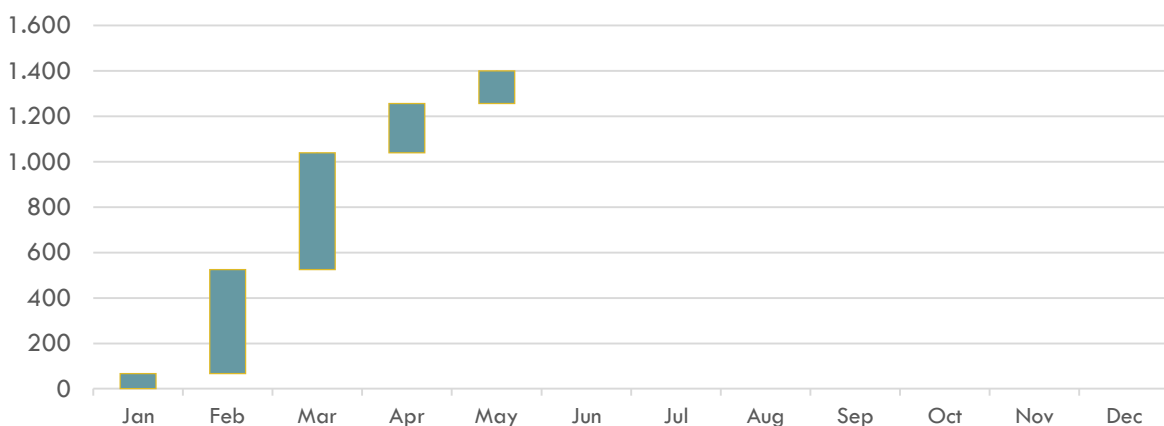
Natural Gas Market Trade Volume (mio.Sm³)



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

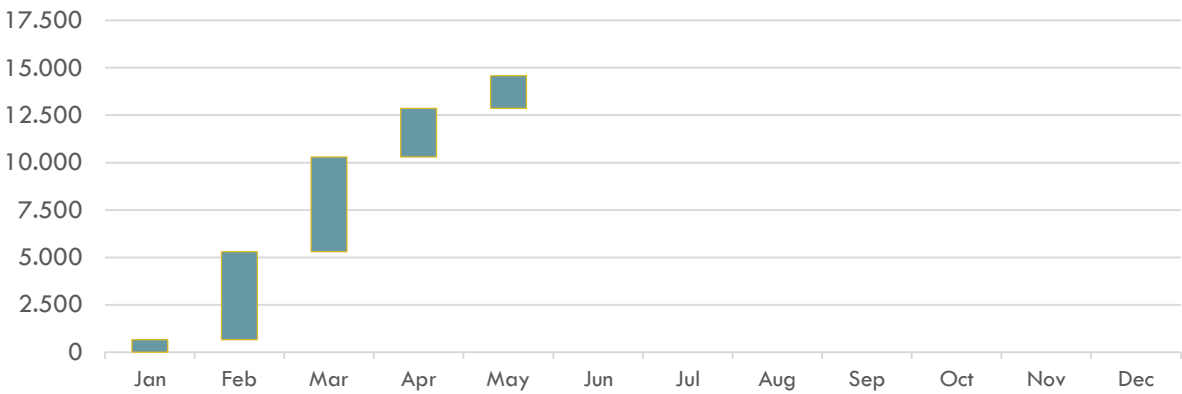


Natural Gas Market Annual Accumulated Trade Volume for 2022 (mio.Sm³)

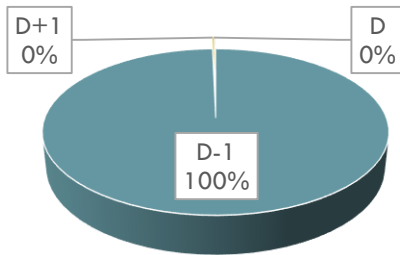


ORDERS, TRADES, VOLUMES (3/3)

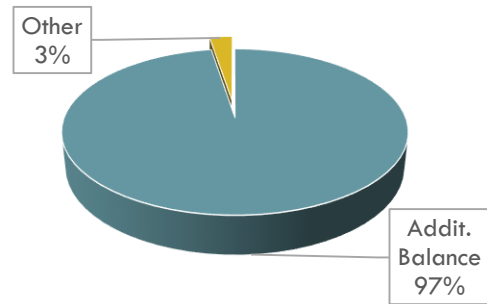
Natural Gas Market Annual Accumulated Transaction Volume for 2022 (Million TL)



Traded Volume of Daily Contracts for May 2022 Period by Sessions



Additional Balancing Traded Volume for May 2022 Period



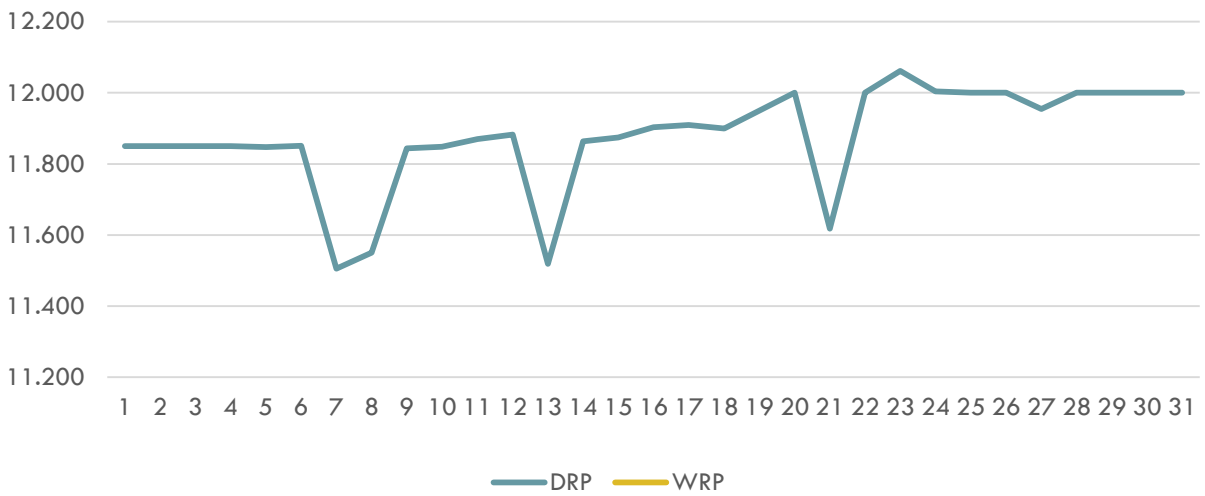
- ✓ The maximum total traded volume was 13.832 sm³ on 05 May 2022 Thu; the minimum total traded volume was realized at the level of 50 sm³ on 27 May 2022 Fri.
- ✓ The maximum total transaction volume was 163.874.620 TL on 05 May 2022 Thu; the minimum total transaction volume was realized at the level of 610.000 TL on 27 May 2022 Fri.
- ✓ The maximum d-1 traded volume was 13.832.000 sm³ on 05 May 2022 Thu; the minimum d-1 traded amount was realized at the level of 0 sm³ on 27 May 2022 Fri.
- ✓ The maximum d-1 traded volume was 163.874.620 TL on 05 May 2022 Thu; the minimum d-1 traded amount was realized at the level of 0 TL on 27 May 2022 Fri.
- ✓ The maximum d traded volume was 117.000 sm³ on 08 May 2022 Sun; the minimum d traded amount was realized at the level of 0 sm³ on 01 May 2022 Sun.
- ✓ The maximum d traded volume was 1.351.382 TL on 08 May 2022 Sun; the minimum d traded amount was realized at the level of 0 TL on 01 May 2022 Sun.
- ✓ The maximum d+1 traded volume was 50.000 sm³ on 12 May 2022 Thu; the minimum d+1 traded amount was realized at the level of 0 sm³ on 01 May 2022 Sun.
- ✓ The maximum d+1 traded volume was 610.000 TL on 27 May 2022 Fri; the minimum d+1 traded amount was realized at the level of 0 TL on 01 May 2022 Sun.
- ✓ The ratio of ctp compared to total consumption was realized at the level of 3,9% in May 2022.
- ✓ Ctp share in virtual trade was realized at 29,9% in May 2022.

WEEKLY PRODUCTS (1/2)

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

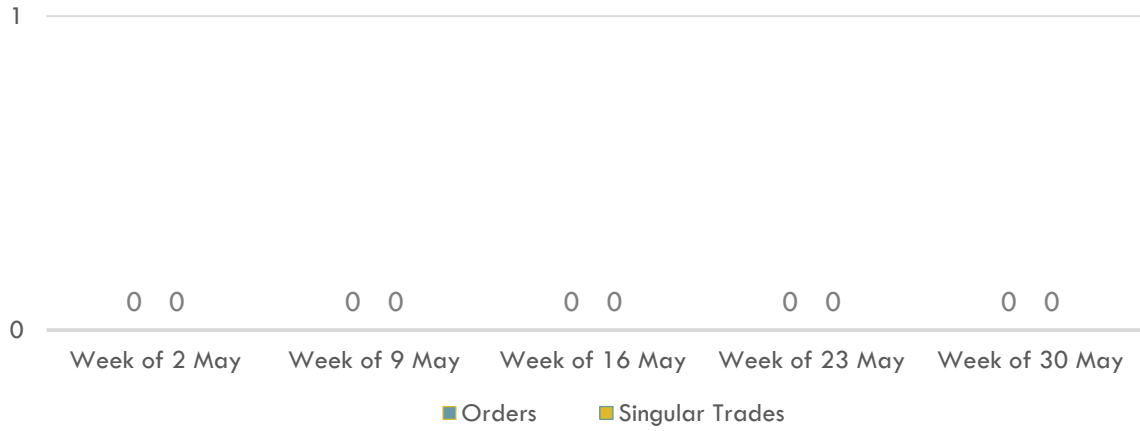


May 2022 DRP - WRP (TL/'000 Sm³)

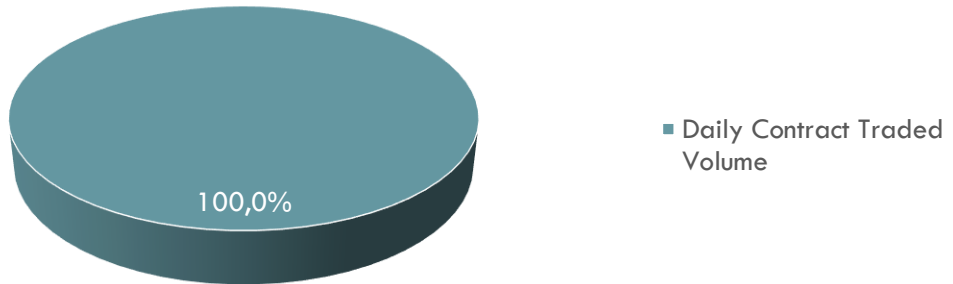


WEEKLY PRODUCTS (2/2)

May 2022 Weekly Products Number of Orders and Trades



May 2022 Traded Volume Distribution by Contract Type



STP

Last 1 Year Trades

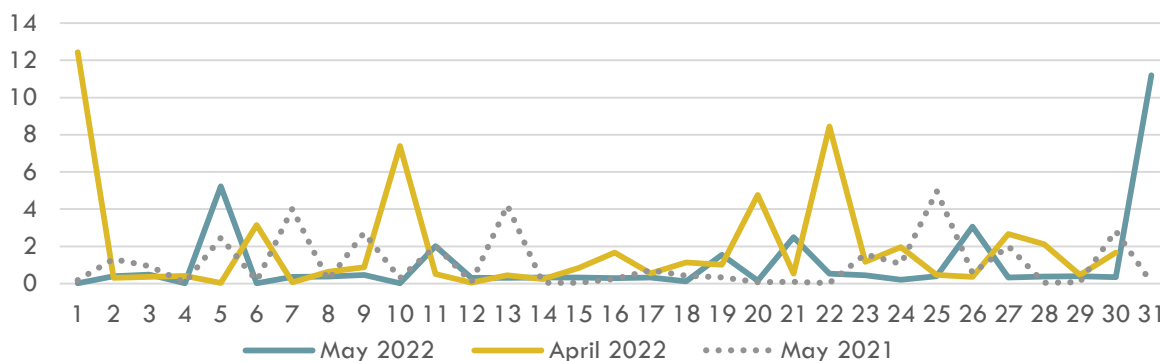
Period	Traded Volume (mio.Sm ³)	Traded Amount (TL)
May 2021	123,50	213.116.614
Jun 2021	127,49	234.315.489
Jul 2021	95,74	198.270.544
Aug 2021	73,09	159.786.734
Sep 2021	77,88	192.348.772
Oct 2021	86,87	272.972.795
Nov 2021	49,46	227.618.483
Dec 2021	76,85	327.403.990
Jan 2022	66,36	559.271.803
Feb 2022	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

CTP's share in Total Cons. and Virtual Trade

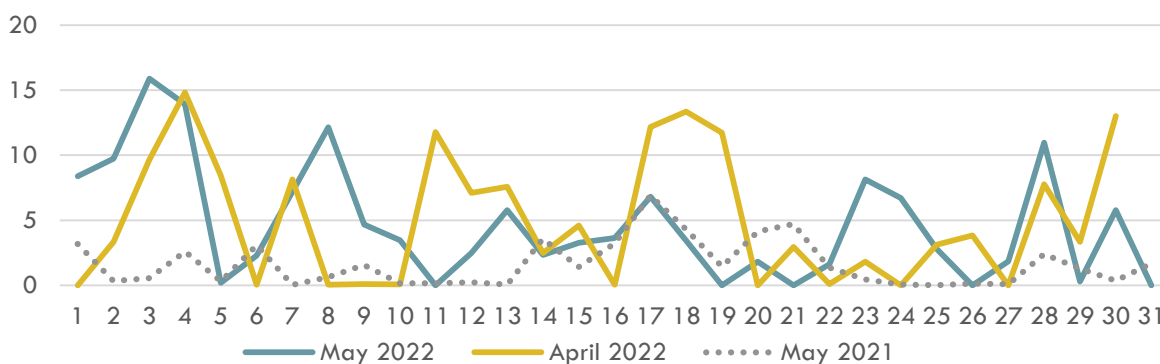
Period	Total Consumption (%)	Virtual Trade (%)
May 2021	3,3%	14,2%
Jun 2021	2,9%	20,7%
Jul 2021	2,3%	16,4%
Aug 2021	1,7%	12,3%
Sep 2021	1,9%	12,8%
Oct 2021	1,8%	10,9%
Nov 2021	0,9%	5,4%
Dec 2021	1,1%	8,4%
Jan 2022	0,9%	7,2%
Feb 2022	7,2%	31,9%
Mar 2022	7,3%	38,6%
Apr 2022	5,1%	40,5%
May 2022	3,9%	29,9%

TRANSMISSION SYSTEM DATA (1/2)

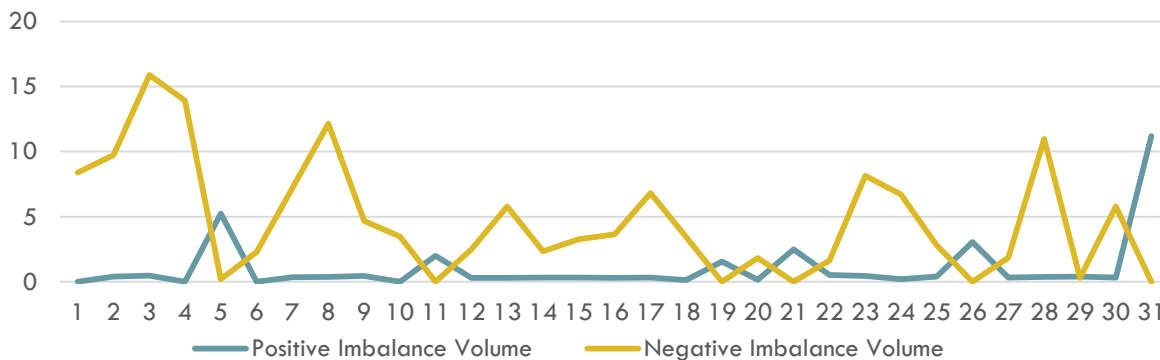
Natural Gas Market Positive Imbalance Volume (mio.Sm³)



Natural Gas Market Negative Imbalance Volume (mio.Sm³)



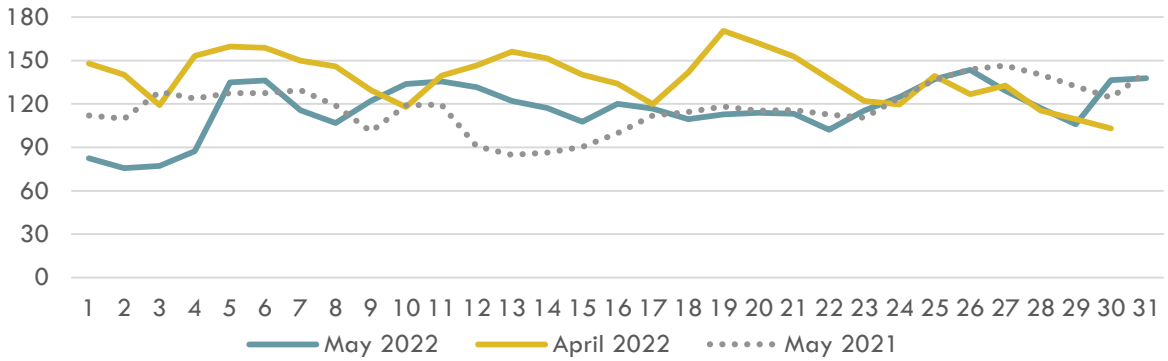
May 2022 Period Negative and Positive Imbalance Volume (mio.Sm³)



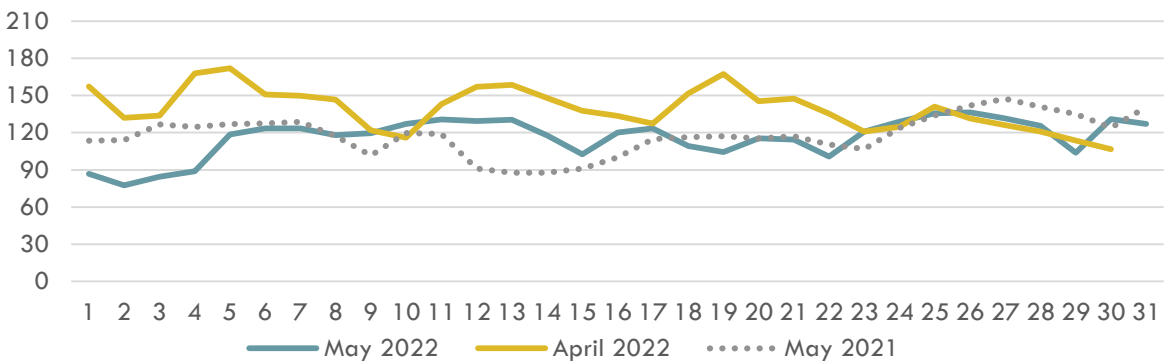
- ✓ The maximum positive imbalance volume was 11.202.779 sm³ on 31 May 2022 Tue; the minimum positive imbalance volume was realized at the level of 8.450 sm³ on 10 May 2022 Tue.
- ✓ The maximum negative imbalance volume was 15.885.636 sm³ on 03 May 2022 Tue; the minimum negative imbalance volume was realized at the level of 1.934 sm³ on 11 May 2022 Wed.

TRANSMISSION SYSTEM DATA (2/2)

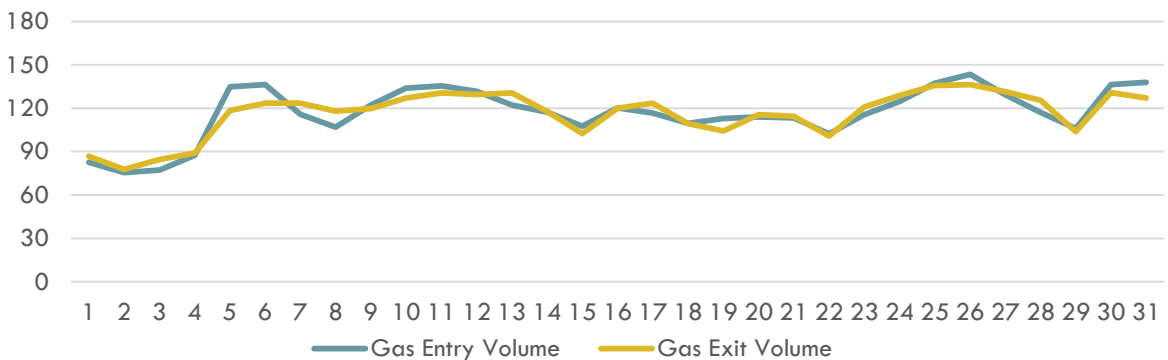
Natural Gas Market Gas Entry Volume (mio.Sm³)



Natural Gas Market Gas Exit Volume (mio.Sm³)



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



- ✓ Maximum gas entry volume realized on 26 May 2022 Thu was 143.470.529 sm³; minimum gas entry volume on 02 May 2022 Mon was 75.598.302 sm³ levels.
- ✓ Maximum gas exit volume realized on 26 May 2022 Thu was 136.408.261 sm³; minimum gas exit volume 02 May 2022 Mon was 77.611.992 sm³ levels.
- ✓ Maximum gas volume in stocks realized on 31 May 2022 Tue was 415.213.587 sm³; minimum stok gas volume 04 May 2022 Wed was 383.723.719 sm³ levels.

ADDITIONAL BALANCING TRANSACTIONS

Transactions with 1 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/'000 Sm ³)	Direction
01.05.2022	2.471	11.850	Purchase
02.05.2022	8.821	11.850	Purchase
03.05.2022	6.604	11.850	Purchase
04.05.2022	10.835	11.850	Purchase
05.05.2022	13.832	11.848	Purchase
06.05.2022	12.444	11.851	Purchase
07.05.2022	2.535	11.502	Sales
08.05.2022	214	11.550	Sales
09.05.2022	5.189	11.844	Purchase
10.05.2022	10.839	11.849	Purchase
11.05.2022	2.676	11.870	Purchase
12.05.2022	3.982	11.881	Purchase
13.05.2022	2.289	11.519	Sales
14.05.2022	1.879	11.859	Purchase
15.05.2022	6.030	11.874	Purchase
16.05.2022	2.402	11.900	Purchase
17.05.2022	869	11.900	Purchase
18.05.2022	2.322	11.900	Purchase
19.05.2022	7.483	11.950	Purchase
20.05.2022	2.113	12.000	Purchase
21.05.2022	1.202	11.606	Sales
22.05.2022	3.675	12.000	Purchase
23.05.2022	20	12.000	Purchase
24.05.2022	2.116	12.000	Purchase
25.05.2022	5.253	12.000	Purchase
26.05.2022	6.238	12.000	Purchase
28.05.2022	2.814	12.000	Purchase
29.05.2022	2.219	12.000	Purchase
30.05.2022	11.224	12.000	Purchase
31.05.2022	121	12.000	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 13.832.000 sm³ on 05 May 2022 Thu; additional balancing transactions with a minimum code of 1 were realized at the level of 20.000 sm³ on 23 May 2022 Mon.
- ✓ In May, no additional balancing transaction code of 2 was realized.
- ✓ In May, no additional balancing transaction code of 3 was realized.
- ✓ In May, no additional balancing transaction code of 4 was realized.