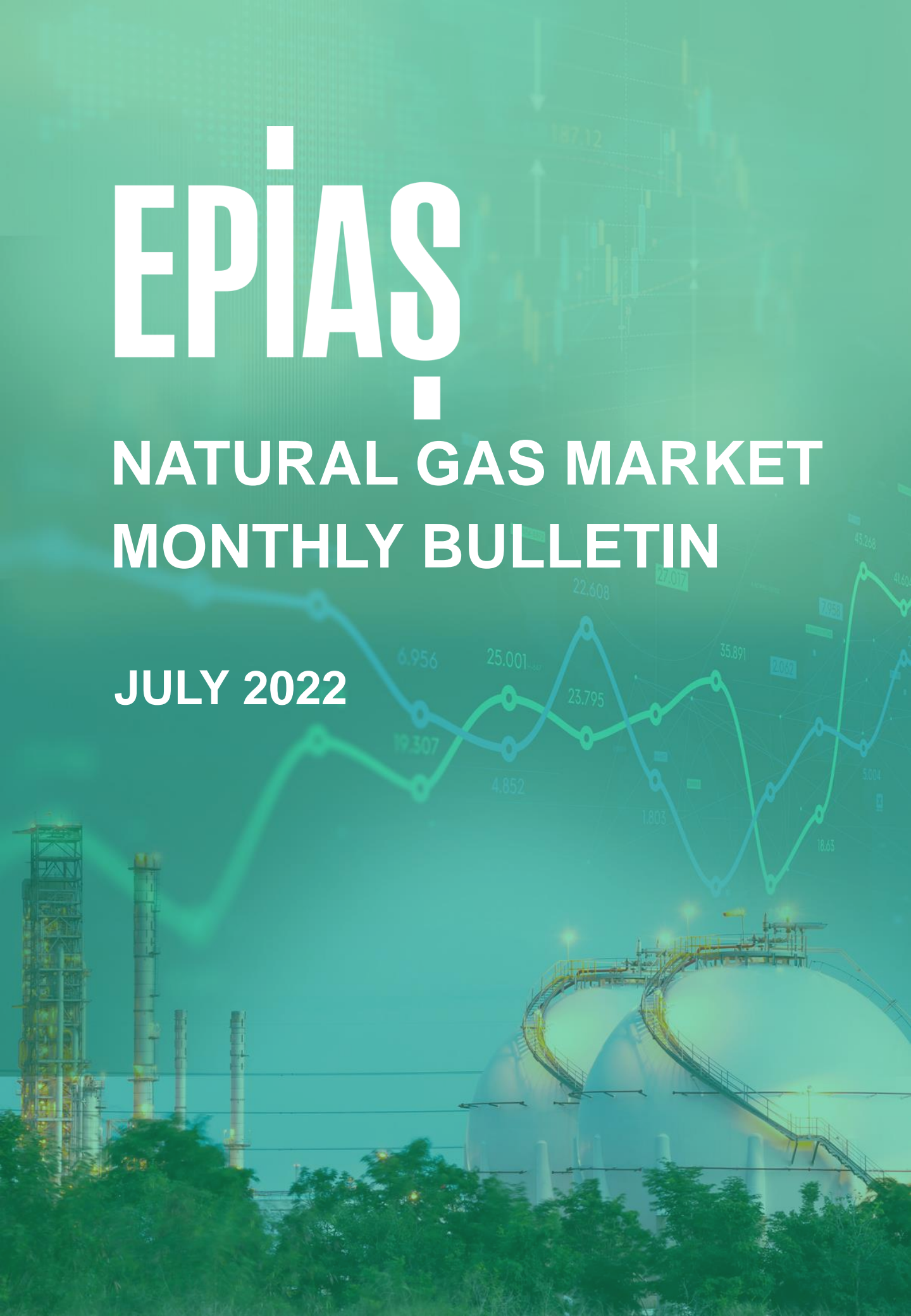


EPIAS

NATURAL GAS MARKET MONTHLY BULLETIN

JULY 2022



SUMMARY DATA (1/2)

Arithmetic Means

	July 2022	June 2022	Monthly Change	July 2021	Annual Change
DRP (TL/'000 Sm ³)	13.023	12.666	2.8%	2.072	528.4%
WRP (TL/'000 Sm ³)	0	0	-	0	-
BGPP (TL/'000 Sm ³)	13.414	13.073	2.6%	2.136	527.9%
BGSP (TL/'000 Sm ³)	12.606	12.283	2.6%	2.010	527.1%
Traded Volume (mio.Sm ³)	3,68	4,54	-19.0%	3,09	19.1%
Transaction Volume (TL)	47.155.078	57.093.060	-17.4%	6.395.824	637.3%
Gas Entry Volume (mio.Sm ³)	107,06	123,35	-13.2%	130,08	-17.7%
Gas Exit Volume (mio.Sm ³)	107,07	123,46	-13.3%	130,02	-17.7%
Number of Ordered Participants	8	7	7.9%	17	-55.2%
Number of Orders	15	13	16.2%	58	-73.6%
Number of Trades	4	4	2.0%	23	-81.0%

Maximum / Minimum Levels

	July 2022		June 2022		July 2021	
	Max	Min	Max	Min	Max	Min
DRP (TL/'000 Sm ³)	18.900	12.523	13.005	12.000	2.105	2.046
WRP (TL/'000 Sm ³)	0	0	0	0	0	0
BGPP (TL/'000 Sm ³)	19.467	12.899	13.395	12.360	2.194	2.107
BGSP (TL/'000 Sm ³)	17.500	12.147	12.615	11.640	2.042	1.985
Traded Volume (mio.Sm ³)	14,25	0,01	15,52	0,14	5,30	1,04
Transaction Volume (TL)	183.799.389	189.000	196.908.105	1.781.710	10.921.359	2.151.215
Gas Entry Volume (mio.Sm ³)	146,98	55,44	152,04	100,59	154,80	90,76
Gas Exit Volume (mio.Sm ³)	142,31	59,01	142,30	97,70	154,30	93,89
Number of Ordered Participants	10	3	8	6	20	14
Number of Orders	29	5	23	8	117	43
Number of Trades	10	1	7	2	34	14

SUMMARY DATA (2/2)

Totals

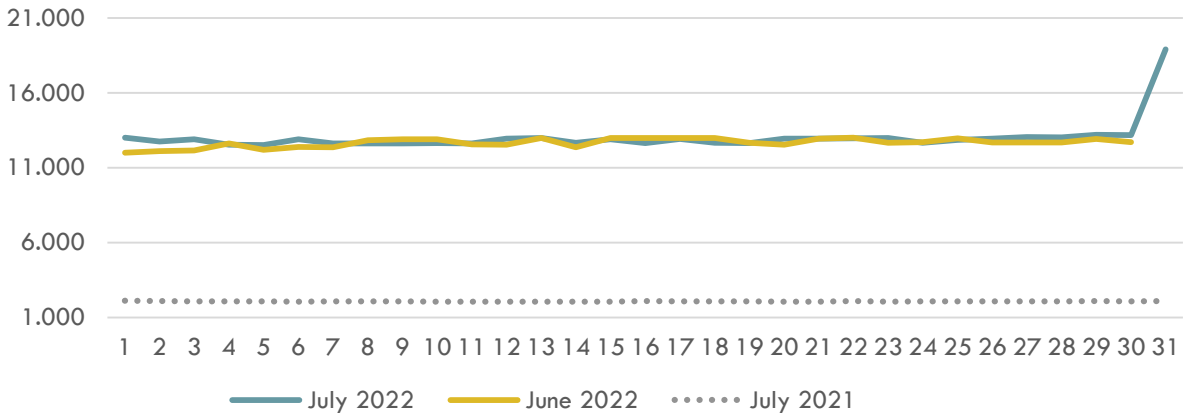
	July 2022	June 2022	Monthly Change	July 2021	Annual Change
Traded Volume (mio.Sm ³)	114,06	136,23	-16.3%	95,74	19.1%
Transaction Volume (TL)	1.461.807.407	1.712.791.812	-14.7%	198.270.544	637.3%
Gas Entry Volume (mio.Sm ³)	3.318,89	3.700,43	-10.3%	4.032,36	-17.7%
Gas Exit Volume (mio.Sm ³)	3.319,11	3.703,67	-10.4%	4.030,54	-17.7%
Number of Orders	478	398	20.1%	1.810	-73.6%
Number of Trades	136	129	5.4%	715	-81.0%
Total Production of Natural Gas Based Power Plants (MWh)	5.216.599	4.906.834	6.3%	10.192.790	-48.8%
Total Electricity Generation (MWh)	26.861.662	25.190.219	6.6%	28.760.733	-6.6%
Ratio of Natural Gas Based Generation to Total Electricity Generation (%)	19	19	-0.3%	35	-45.2%

Brent Oil and TTF Prices

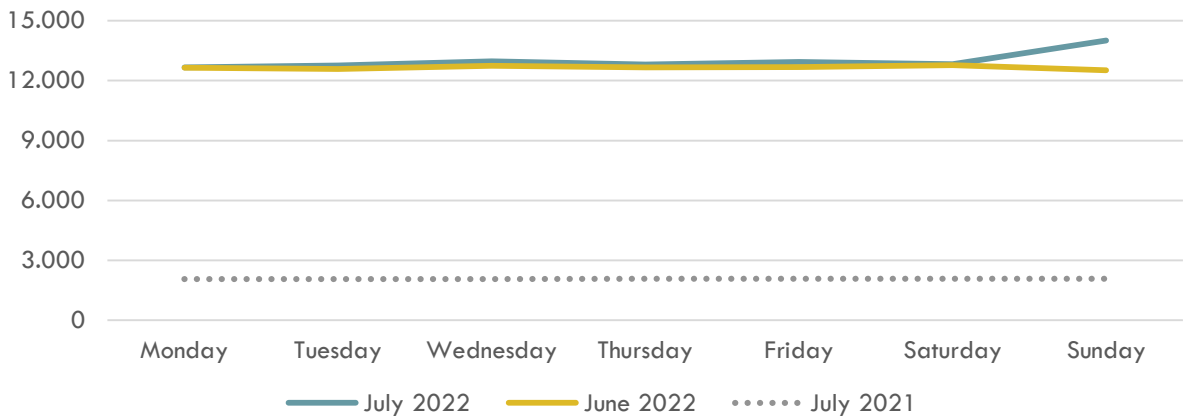
	July 2022	June 2022	Monthly Change	July 2021	Annual Change
Brent Oil(\$/bl)	105,12	117,5	-10,54%	74,29	41,50%
TTF (€/MWh)	168,86	102,67	64,47%	36,21	366,34%

PRICES (1/2)

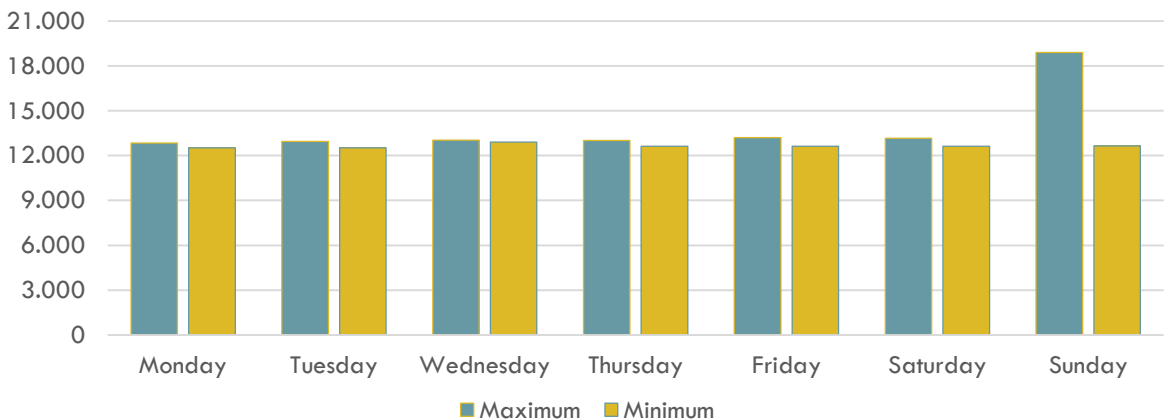
Natural Gas Market DRP (TL/'000 Sm³)



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

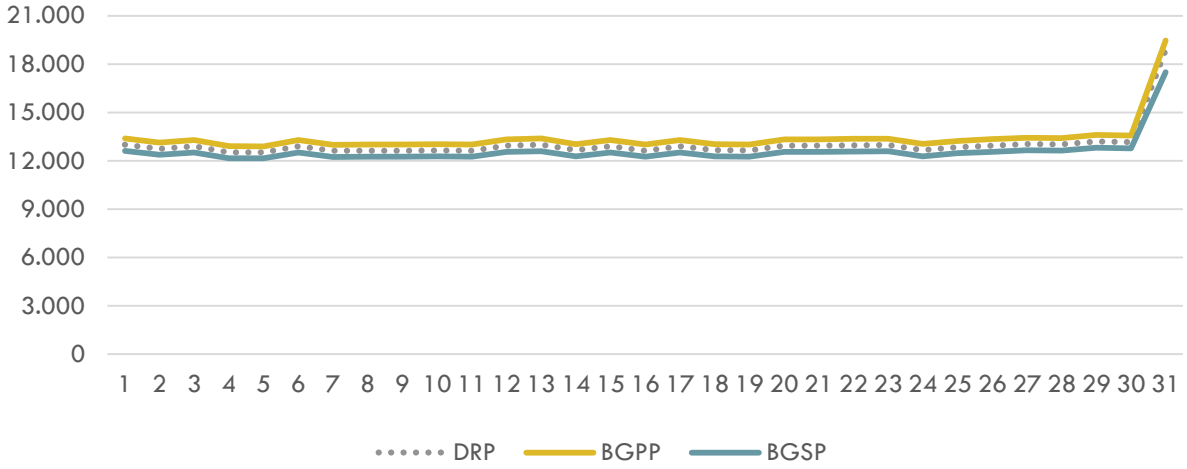


July 2022 Natural Gas Market By Days Max / Min DRP (TL/'000 Sm³)



PRICES (2/2)

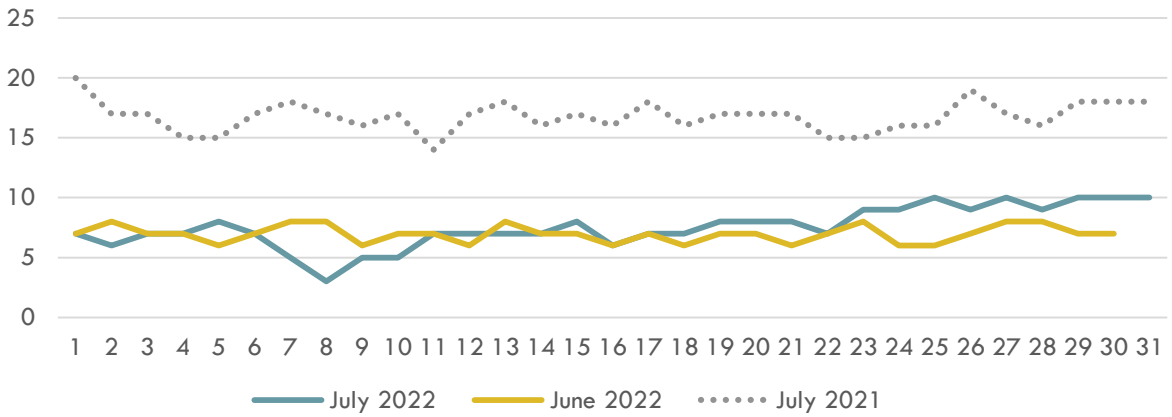
July 2022 DRP - BGPP - BGSP (TL/‘000 Sm³)



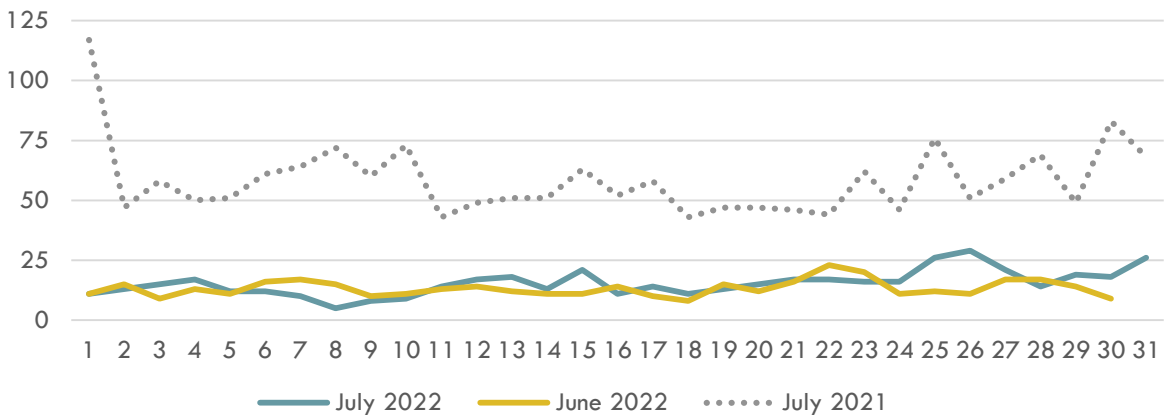
- ✓ The maximum DRP was 18.900 TL on 31 July 2022 Sun; the minimum DRP was realized at the level of 12.523 TL on 05 July 2022 Tue.
- ✓ The Maximum BGPP was 19.467 on 31 July 2022 Sun; the minimum BGPP was realized at the level of 12.899 TL on 05 July 2022 Tue.
- ✓ The maximum BGSP was 17.500 on 31 July 2022 Sun; the minimum BGSP was realized at the level of 12.147 TL on 05 July 2022 Tue.

ORDERS, TRADES, VOLUMES (1/3)

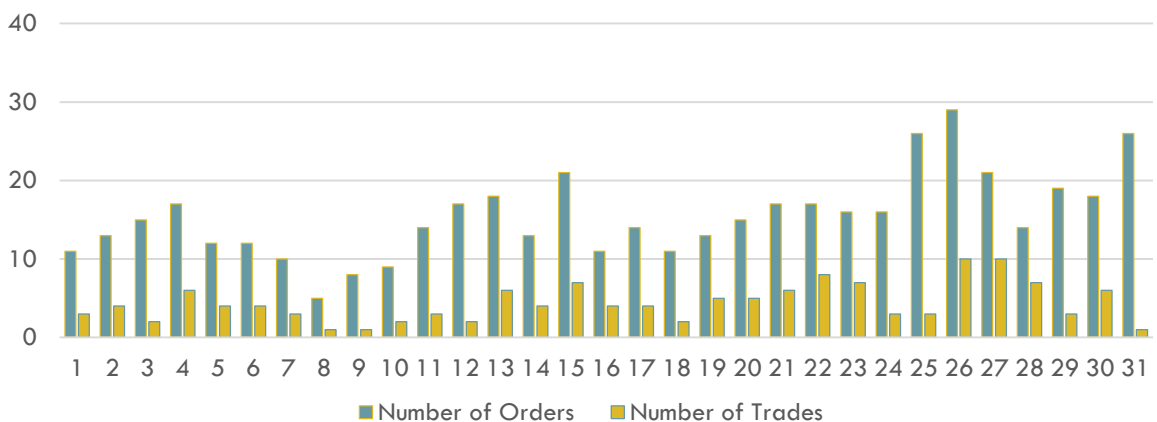
Natural Gas Market Number of Ordered Participants



Natural Gas Market Number of Orders

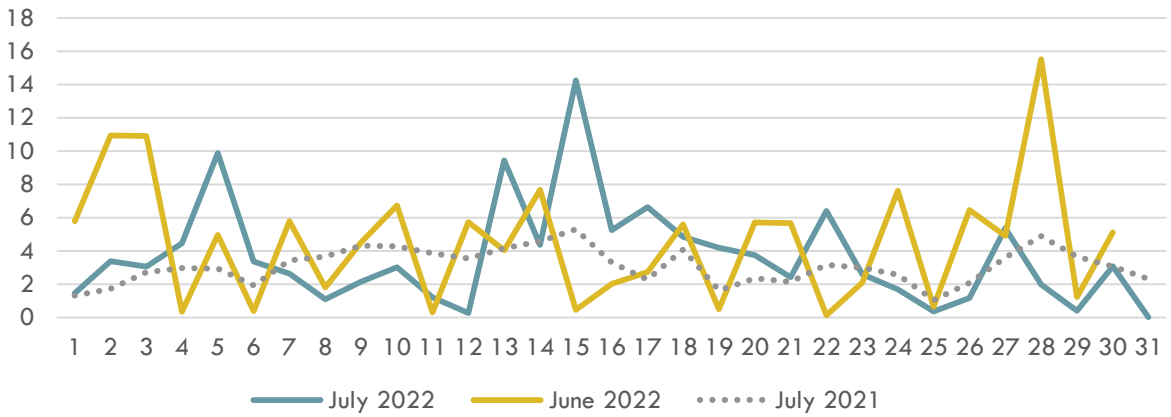


July 2022 Natural Gas Market Number of Orders and Trades

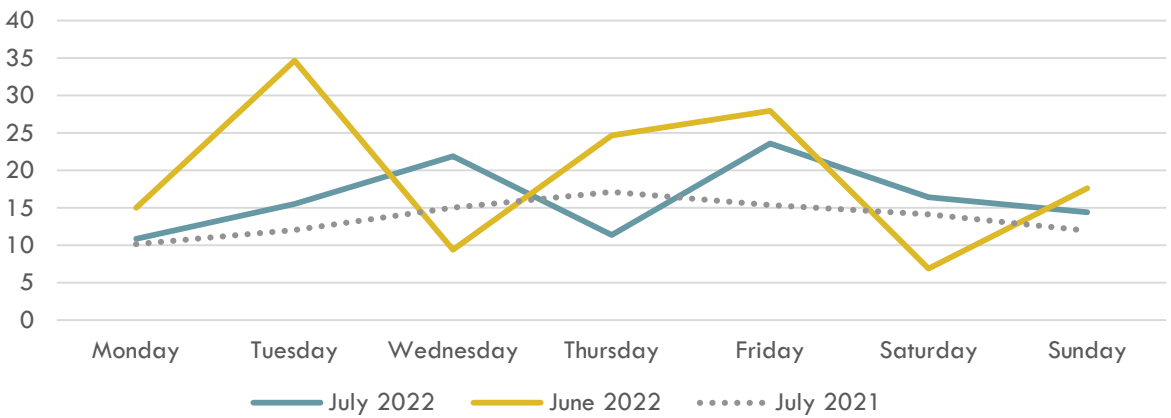


ORDERS, TRADES, VOLUMES (2/3)

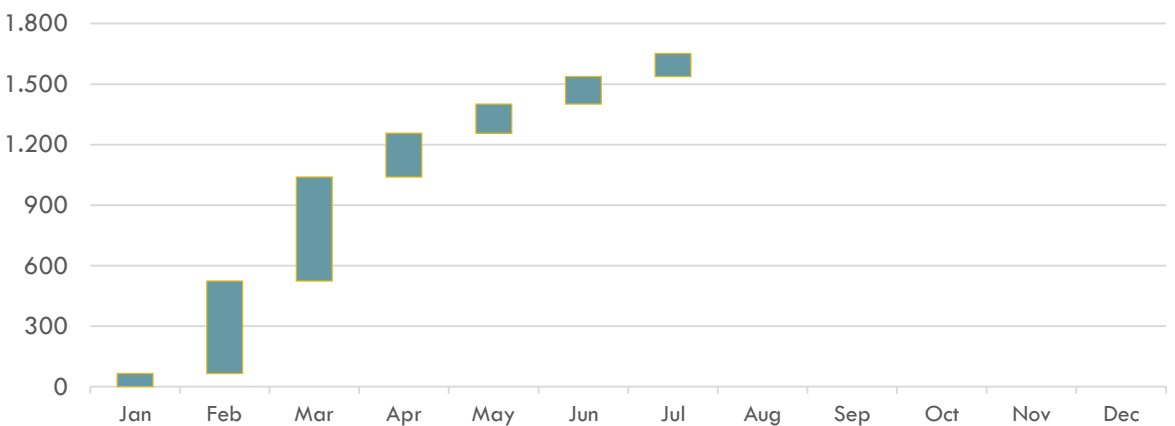
Natural Gas Market Trade Volume (mio.Sm³)



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

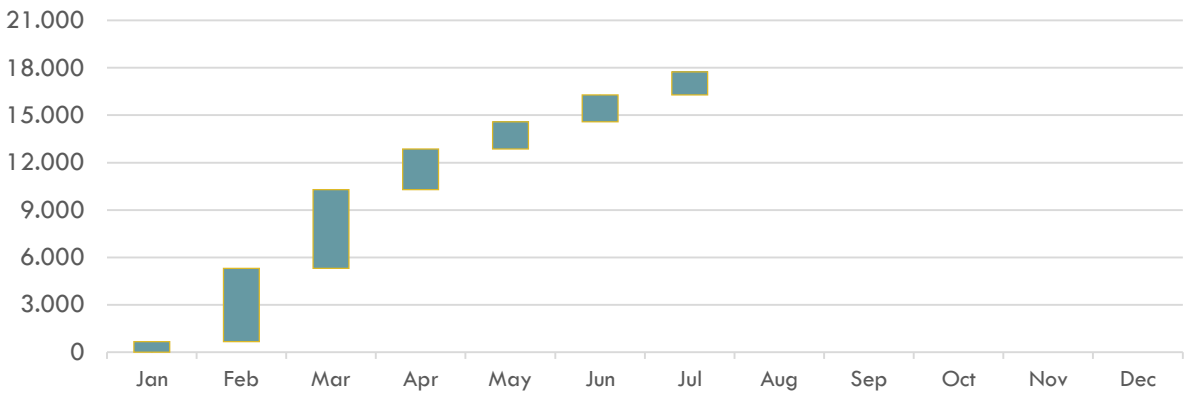


Natural Gas Market Annual Accumulated Trade Volume for 2022 (mio.Sm³)

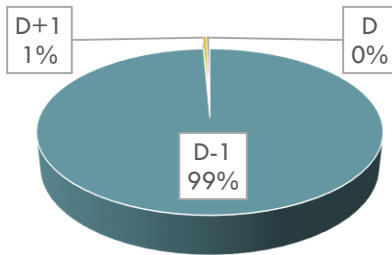


ORDERS, TRADES, VOLUMES (3/3)

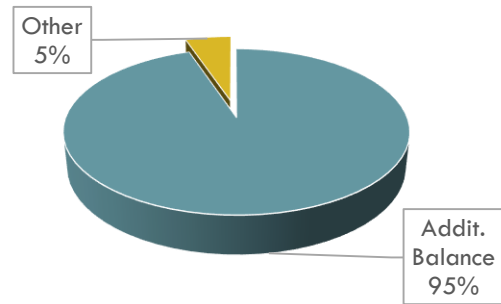
Natural Gas Market Annual Accumulated Transaction Volume for 2022 (Million TL)



Traded Volume of Daily Contracts for July 2022 Period by Sessions



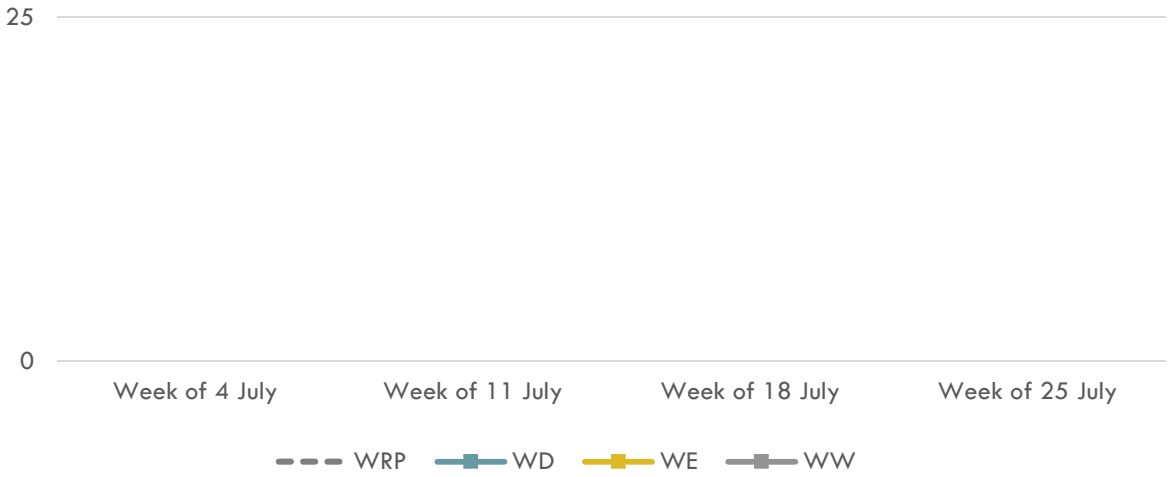
Additional Balancing Traded Volume for July 2022 Period



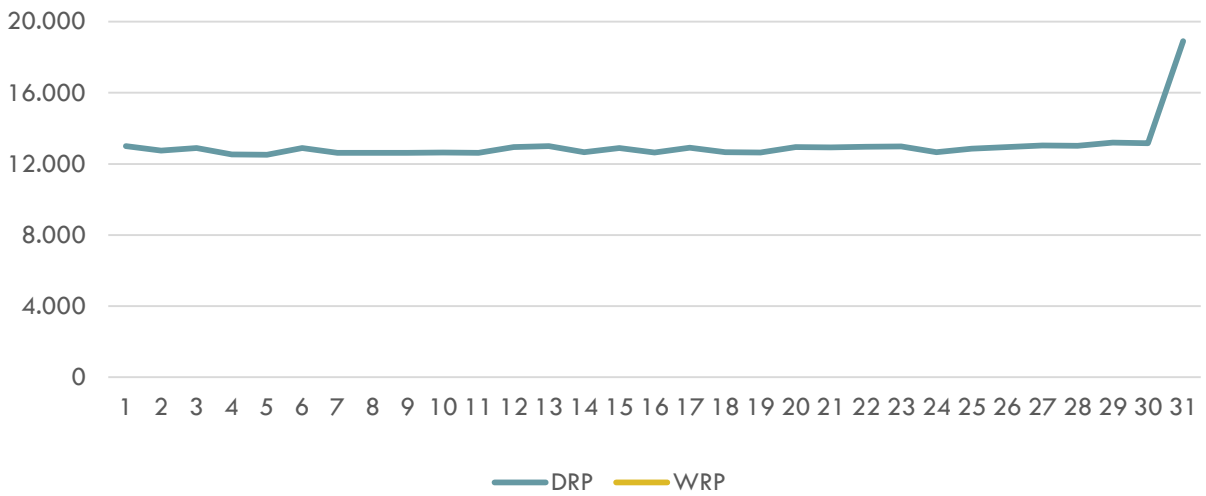
- ✓ The maximum total traded volume was 14.246 sm³ on 15 July 2022 Fri; the minimum total traded volume was realized at the level of 10 sm³ on 31 July 2022 Sun.
- ✓ The maximum total transaction volume was 183.799.389 TL on 15 July 2022 Fri; the minimum total transaction volume was realized at the level of 189.000 TL on 31 July 2022 Sun.
- ✓ The maximum d-1 traded volume was 14.246.000 sm³ on 15 July 2022 Fri; the minimum d-1 traded amount was realized at the level of 10.000 sm³ on 31 July 2022 Sun.
- ✓ The maximum d-1 traded volume was 183.799.389 TL on 15 July 2022 Fri; the minimum d-1 traded amount was realized at the level of 189.000 TL on 31 July 2022 Sun.
- ✓ The maximum d traded volume was 85.000 sm³ on 17 July 2022 Sun; the minimum d traded amount was realized at the level of 0 sm³ on 02 July 2022 Sat.
- ✓ The maximum d traded volume was 1.097.350 TL on 17 July 2022 Sun; the minimum d traded amount was realized at the level of 0 TL on 02 July 2022 Sat.
- ✓ The maximum d+1 traded volume was 111.000 sm³ on 25 July 2022 Mon; the minimum d+1 traded amount was realized at the level of 0 sm³ on 01 July 2022 Fri.
- ✓ The maximum d+1 traded volume was 1.443.550 TL on 25 July 2022 Mon; the minimum d+1 traded amount was realized at the level of 0 TL on 01 July 2022 Fri.
- ✓ The ratio of ctp compared to total consumption was realized at the level of 3,4% in July 2022.
- ✓ Ctp share in virtual trade was realized at 22,0% in July 2022.

WEEKLY PRODUCTS (1/2)

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

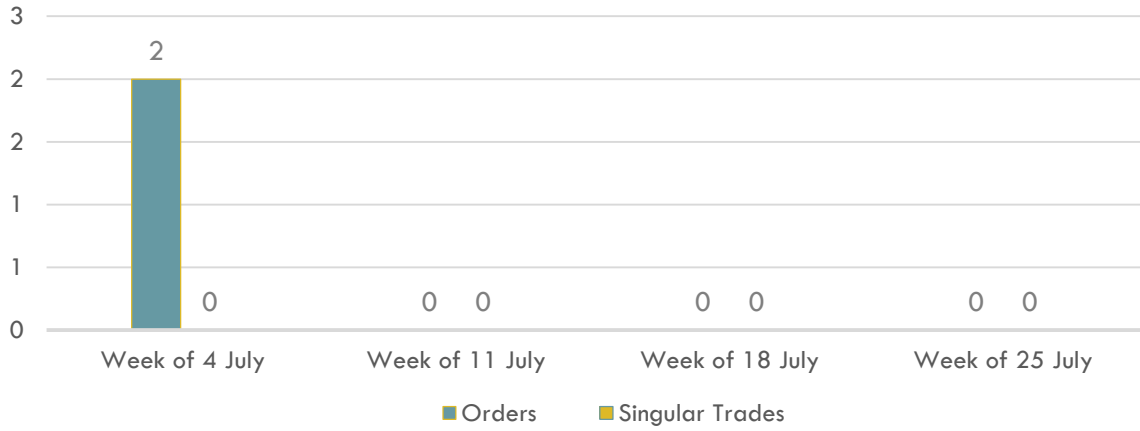


July 2022 DRP - WRP (TL/'000 Sm³)

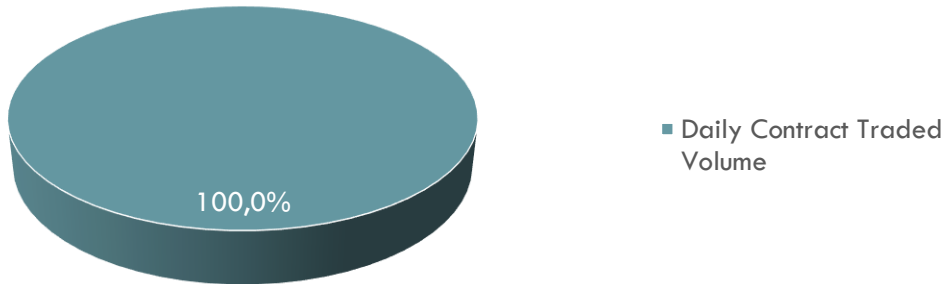


WEEKLY PRODUCTS (2/2)

July 2022 Weekly Products Number of Orders and Trades



July 2022 Traded Volume Distribution by Contract Type



STP

Last 1 Year Trades

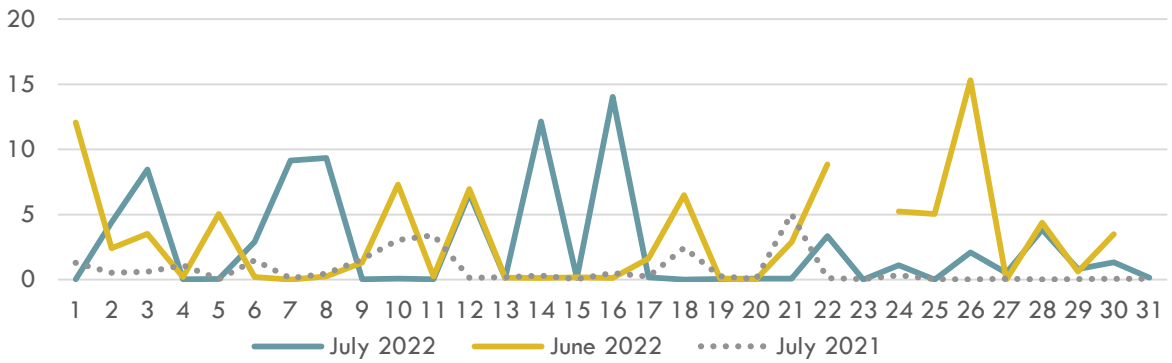
Period	Traded Volume (mio.Sm ³)	Traded Amount (TL)
Jul 2021	95,74	198.270.544
Aug 2021	73,09	159.786.734
Sep 2021	77,88	192.348.772
Oct 2021	86,87	272.972.795
Nov 2021	49,46	227.618.483
Dec 2021	76,85	327.403.990
Jan 2022	66,36	559.271.803
Feb 2022	458,09	1.044.258.193
Mar 2022	515,31	1.692.333.624
Apr 2022	216,42	1.565.597.680
May 2022	144,42	1.116.289.688
Jun 2022	136,23	1.412.791.812
Jul 2022	114,06	1.161.807.407

CTP's share in Total Cons. and Virtual Trade

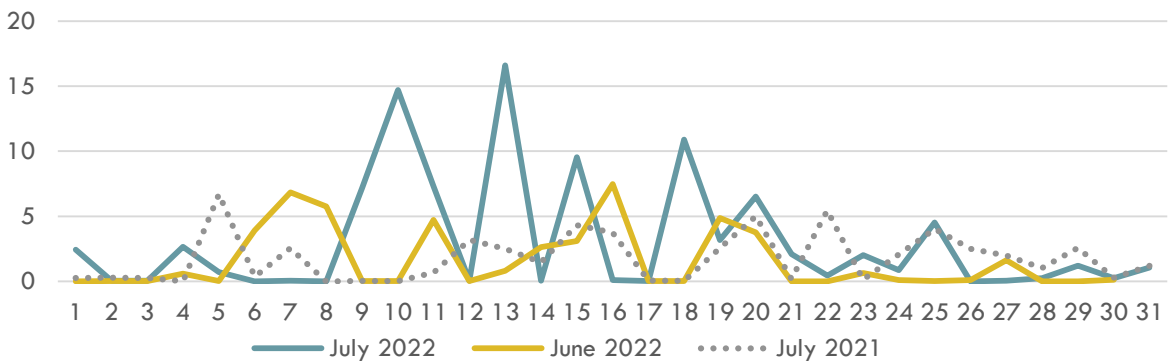
Period	Total Consumption (%)	Virtual Trade (%)
Jul 2021	2,3%	16,4%
Aug 2021	1,7%	12,3%
Sep 2021	1,9%	12,8%
Oct 2021	1,8%	10,9%
Nov 2021	0,9%	5,4%
Dec 2021	1,1%	8,4%
Jan 2022	0,9%	7,2%
Feb 2022	7,2%	31,9%
Mar 2022	7,3%	38,6%
Apr 2022	5,1%	40,5%
May 2022	3,9%	29,9%
Jun 2022	3,7%	28,2%
Jul 2022	3,4%	22,0%

TRANSMISSION SYSTEM DATA (1/2)

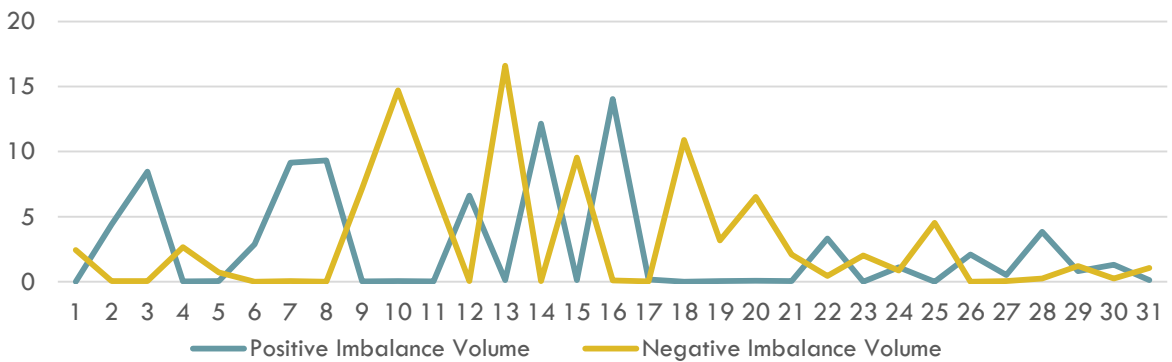
Natural Gas Market Positive Imbalance Volume (mio.Sm³)



Natural Gas Market Negative Imbalance Volume (mio.Sm³)



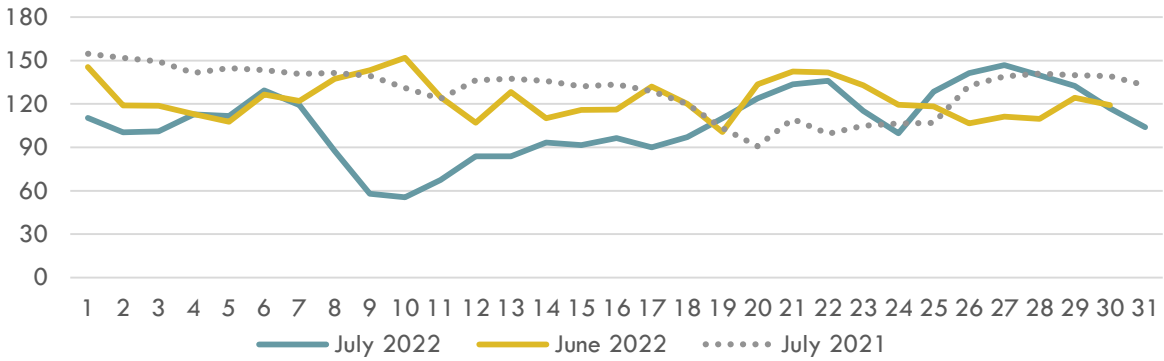
July 2022 Period Negative and Positive Imbalance Volume (mio.Sm³)



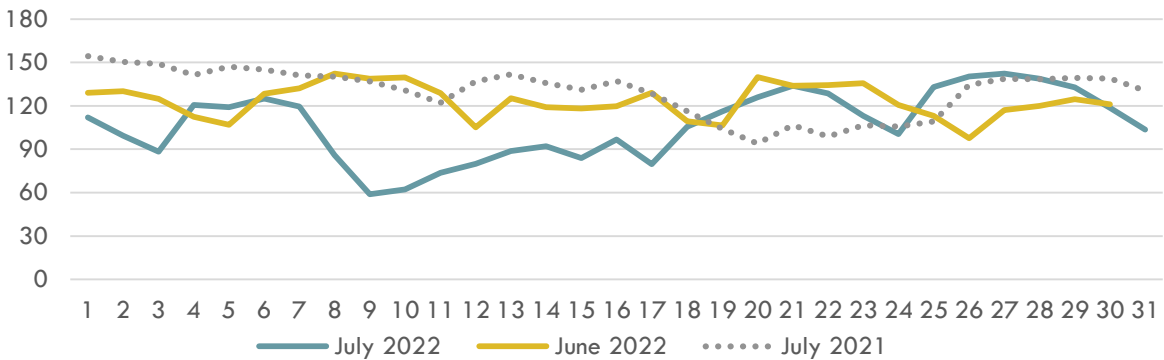
- ✓ The maximum positive imbalance volume was 14.041.071 sm³ on 16 July 2022 Sat; the minimum positive imbalance volume was realized at the level of 156 sm³ on 25 July 2022 Mon.
- ✓ The maximum negative imbalance volume was 16.591.150 sm³ on 13 July 2022 Wed; the minimum negative imbalance volume was realized at the level of 11.608 sm³ on 06 July 2022 Wed.

TRANSMISSION SYSTEM DATA (2/2)

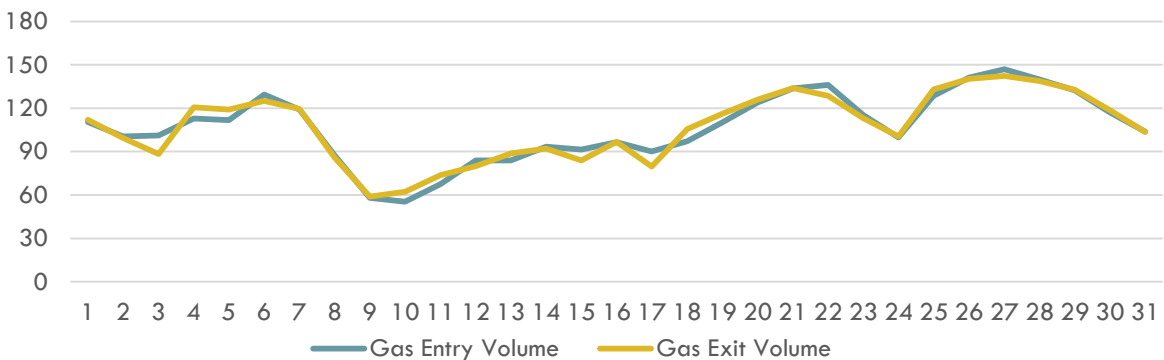
Natural Gas Market Gas Entry Volume (mio.Sm³)



Natural Gas Market Gas Exit Volume (mio.Sm³)



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



- ✓ Maximum gas entry volume realized on 27 July 2022 Wed was 146.980.104 sm³; minimum gas entry volume on 10 July 2022 Sun was 55.436.153 sm³ levels.
- ✓ Maximum gas exit volume realized on 27 July 2022 Wed was 142.305.542 sm³; minimum gas exit volume 09 July 2022 Sat was 59.010.692 sm³ levels.
- ✓ Maximum gas volume in stocks realized on 03 July 2022 Sun was 424.271.711 sm³; minimum stok gas volume 13 July 2022 Wed was 400.078.455 sm³ levels.

ADDITIONAL BALANCING TRANSACTIONS

Transactions with 1 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/'000 Sm ³)	Direction
01.07.2022	1.351	13.000	Purchase
02.07.2022	3.329	12.751	Sales
03.07.2022	2.948	12.900	Purchase
04.07.2022	4.406	12.526	Sales
05.07.2022	9.866	12.523	Sales
06.07.2022	3.261	12.897	Purchase
07.07.2022	2.612	12.621	Sales
08.07.2022	1.098	12.627	Sales
09.07.2022	2.157	12.628	Sales
10.07.2022	2.755	12.629	Sales
11.07.2022	1.202	12.629	Sales
13.07.2022	9.079	12.992	Purchase
14.07.2022	4.022	12.632	Purchase
15.07.2022	13.944	12.899	Sales
16.07.2022	5.202	12.632	Purchase
17.07.2022	6.259	12.910	Sales
18.07.2022	4.838	12.660	Purchase
19.07.2022	4.177	12.636	Sales
20.07.2022	3.597	12.944	Sales
21.07.2022	1.795	12.936	Purchase
22.07.2022	5.730	12.969	Purchase
23.07.2022	1.947	12.982	Purchase
24.07.2022	1.686	12.661	Purchase
25.07.2022	244	12.851	Sales
26.07.2022	969	12.943	Sales
27.07.2022	4.302	13.050	Sales
28.07.2022	1.943	13.018	Purchase
29.07.2022	373	13.204	Sales
30.07.2022	3.063	13.166	Sales

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 13.944.000 sm³ on 15 July 2022 Fri; additional balancing transactions with a minimum code of 1 were realized at the level of 244.000 sm³ on 25 July 2022 Mon.
- ✓ In July, no additional balancing transaction code of 2 was realized.
- ✓ In July, no additional balancing transaction code of 3 was realized.
- ✓ In July, no additional balancing transaction code of 4 was realized.