

EPIAS

NATURAL GAS MARKET MONTHLY BULLETIN

AUGUST 2021



SUMMARY DATA (1/2)

Arithmetic Means

	August 2021	July 2021	Monthly Change	August 2020	Annual Change
DRP (TL/'000 Sm ³)	2.187	2.072	5.5%	1.344	62.8%
WRP (TL/'000 Sm ³)	-	-	-	1.334	-
BGPP (TL/'000 Sm ³)	2.253	2.136	5.5%	1.384	62.8%
BGSP (TL/'000 Sm ³)	2.122	2.010	5.5%	1.303	62.8%
Traded Volume (mio.Sm ³)	2,36	3,09	-23.7%	7,30	-67.7%
Transaction Volume (TL)	5.154.411	6.395.824	-19.4%	9.949.042	-48.2%
Gas Entry Volume (mio.Sm ³)	137,24	130,08	5.5%	106,74	28.6%
Gas Exit Volume (mio.Sm ³)	137,32	130,02	5.6%	105,88	29.7%
Number of Ordered Participants	18	17	4.4%	18	-3.0%
Number of Orders	49	58	-15.4%	75	-34.0%
Number of Trades	24	23	3.8%	36	-33.1%

Maximum / Minimum Levels

	August 2021		July 2021		August 2020	
	Max	Min	Max	Min	Max	Min
DRP (TL/'000 Sm ³)	2.249	2.151	2.105	2.046	1.415	1.306
WRP (TL/'000 Sm ³)	0	0	0	0	1.365	1.307
BGPP (TL/'000 Sm ³)	2.317	2.216	2.194	2.107	1.458	1.345
BGSP (TL/'000 Sm ³)	2.182	2.087	2.042	1.985	1.373	1.267
Traded Volume (mio.Sm ³)	4,60	0,86	5,30	1,04	17,27	2,24
Transaction Volume (TL)	10.292.613	1.923.465	10.921.359	2.151.215	24.993.648	2.800.542
Gas Entry Volume (mio.Sm ³)	148,38	118,80	154,80	90,76	124,33	59,53
Gas Exit Volume (mio.Sm ³)	147,97	119,02	154,30	93,89	123,87	62,36
Number of Ordered Participants	19	14	20	14	20	14
Number of Orders	67	37	117	43	112	40
Number of Trades	38	11	34	14	61	20

SUMMARY DATA (2/2)

Totals

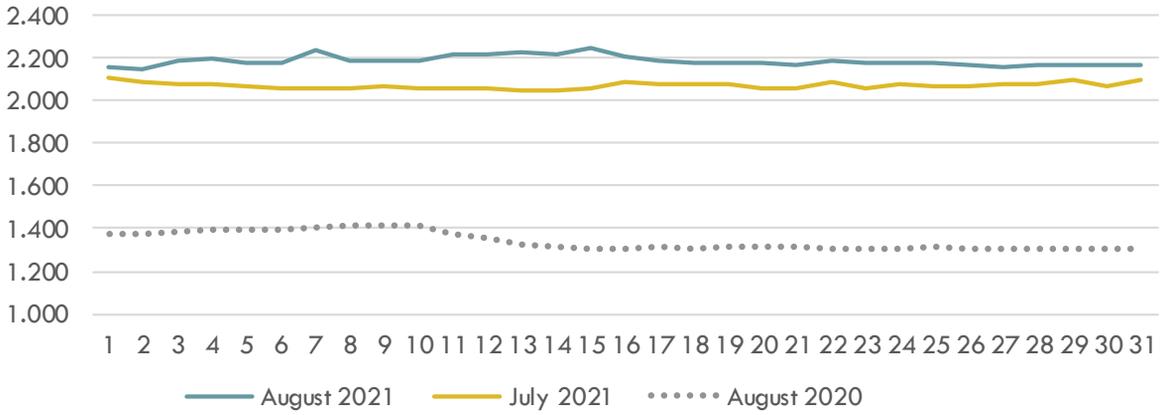
	August 2021	July 2021	Monthly Change	August 2020	Annual Change
Traded Volume (mio.Sm ³)	73,09	95,74	-23.7%	226,16	-67.7%
Transaction Volume (TL)	159.786.734	198.270.544	-19.4%	308.420.295	-48.2%
Gas Entry Volume (mio.Sm ³)	4.254,58	4.032,36	5.5%	3.308,85	28.6%
Gas Exit Volume (mio.Sm ³)	4.257,03	4.030,54	5.6%	3.282,21	29.7%
Number of Orders	1.532	1.810	-15.4%	2.321	-34.0%
Number of Trades	742	715	3.8%	1.098	-32.4%
Total Production of Natural Gas Based Power Plants (MWh)	11.621.895	10.192.735	14.0%	6.618.936	75.6%
Total Electricity Generation (MWh)	30.329.147	28.761.690	5.4%	26.726.147	13.5%
Ratio of Natural Gas Based Generation to Total Electricity Generation (%)	38	35	8.1%	25	54.7%

Brent Oil and TTF Prices

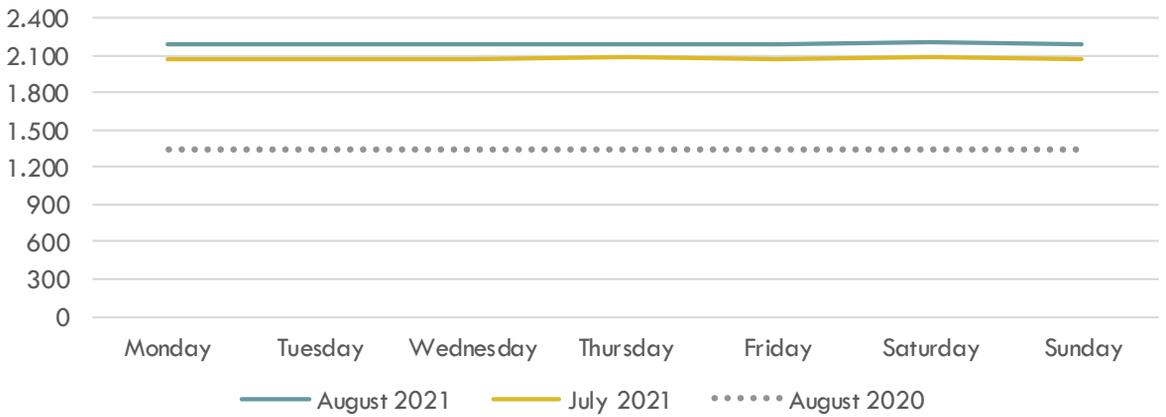
	August 2021	July 2021	Monthly Change	August 2020	Annual Change
Brent Oil(\$/bl)	70,5	74,29	-5,08%	45,02	56,29%
TTF (€/MWh)	44,1	36,22	21,92%	7,4	497,56%

PRICES (1/2)

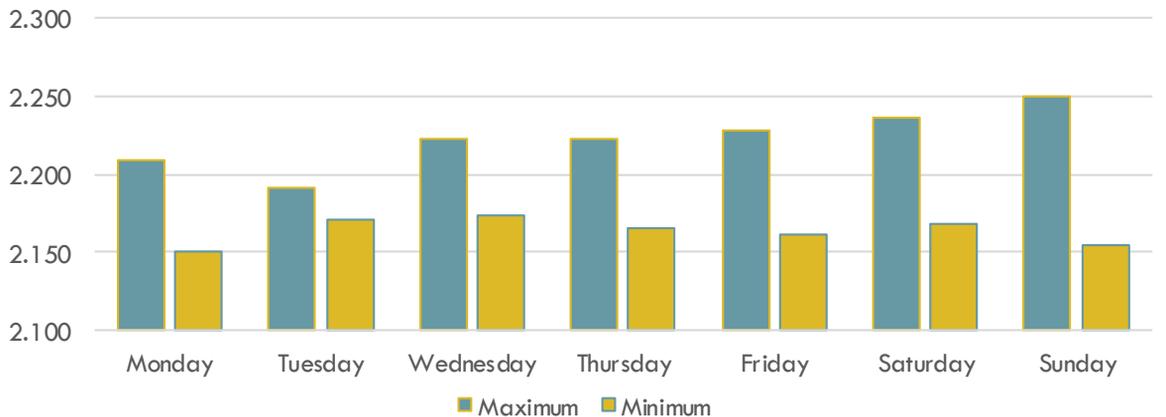
Natural Gas Market DRP (TL/'000 Sm³)



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

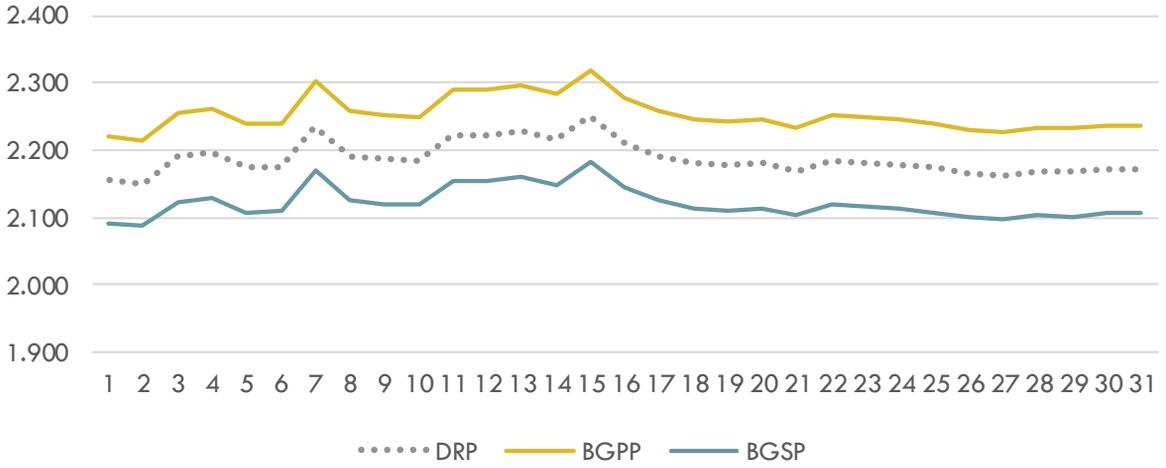


August 2021 Natural Gas Market By Days Max / Min DRP (TL/'000 Sm³)



PRICES (2/2)

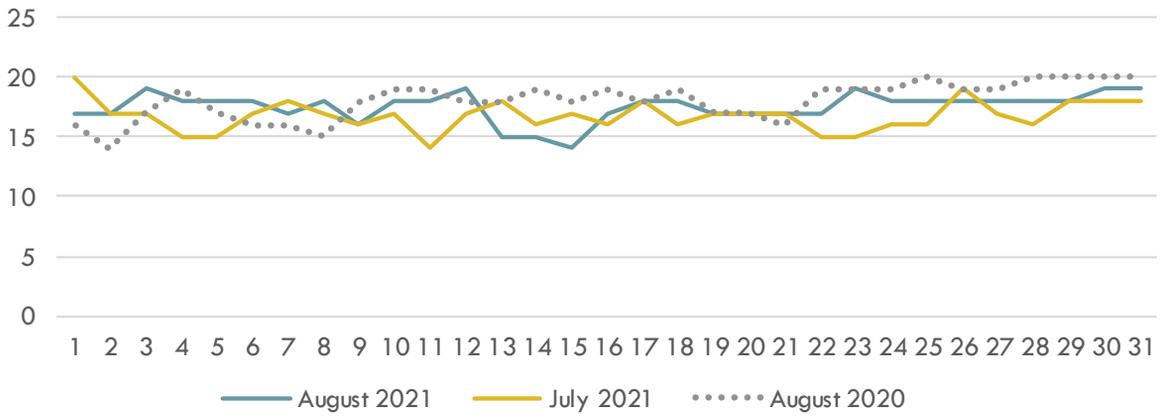
August 2021 DRP - BGPP - BGSP (TL/'000 Sm³)



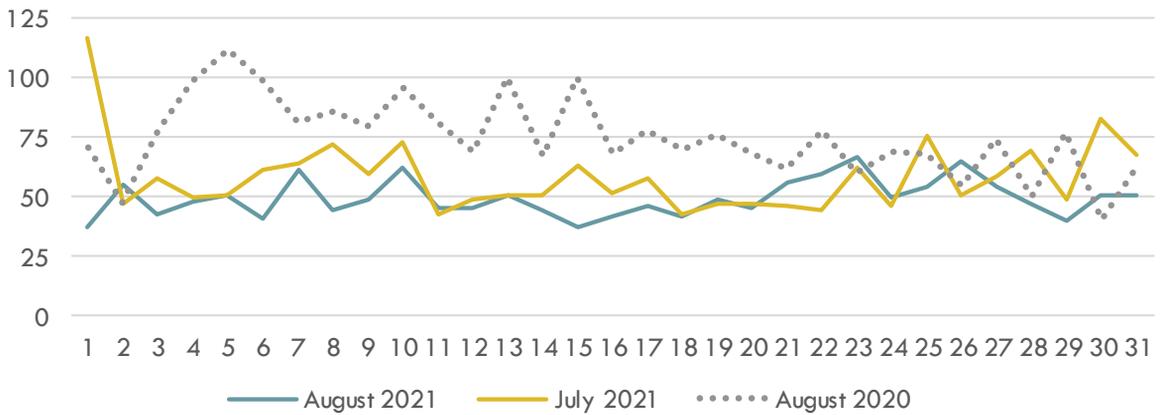
- ✓ The maximum DRP was 2.249 TL on 15 August 2021 Sun; the minimum DRP was realized at the level of 2.151 TL on 02 August 2021 Mon.
- ✓ The Maximum BGPP was 2.317 on 15 August 2021 Sun; the minimum BGPP was realized at the level of 2.216 TL on 02 August 2021 Mon.
- ✓ The maximum BGSP was 2.182 on 15 August 2021 Sun; the minimum BGSP was realized at the level of 2.087 TL on 02 August 2021 Mon.

ORDERS, TRADES, VOLUMES (1/3)

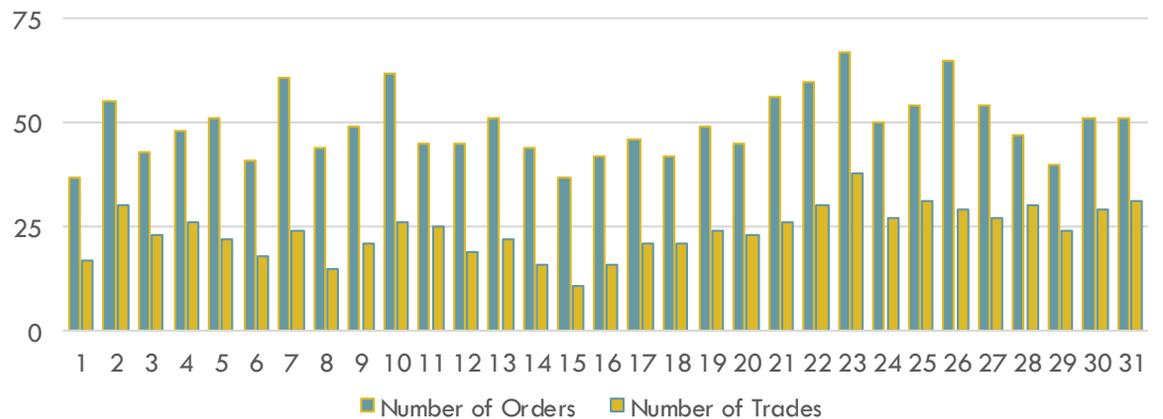
Natural Gas Market Number of Ordered Participants



Natural Gas Market Number of Orders

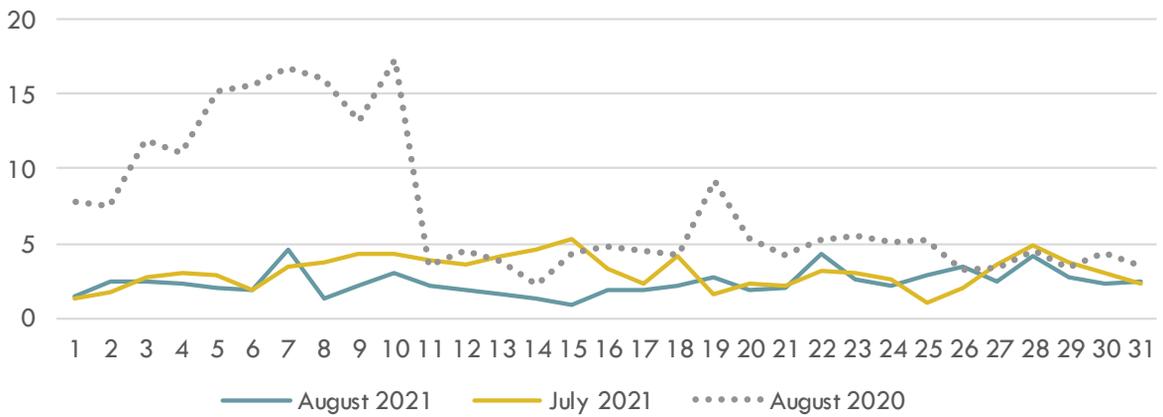


August 2021 Natural Gas Market Number of Orders and Trades

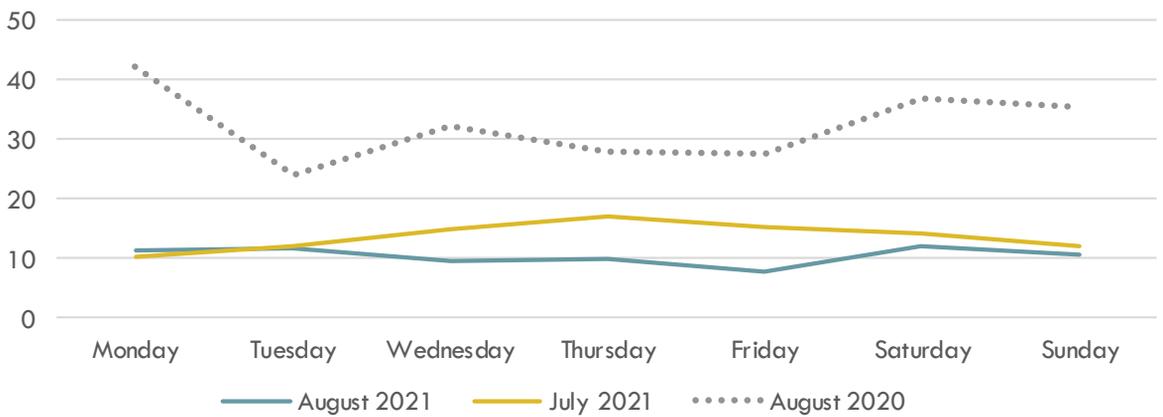


ORDERS, TRADES, VOLUMES (2/3)

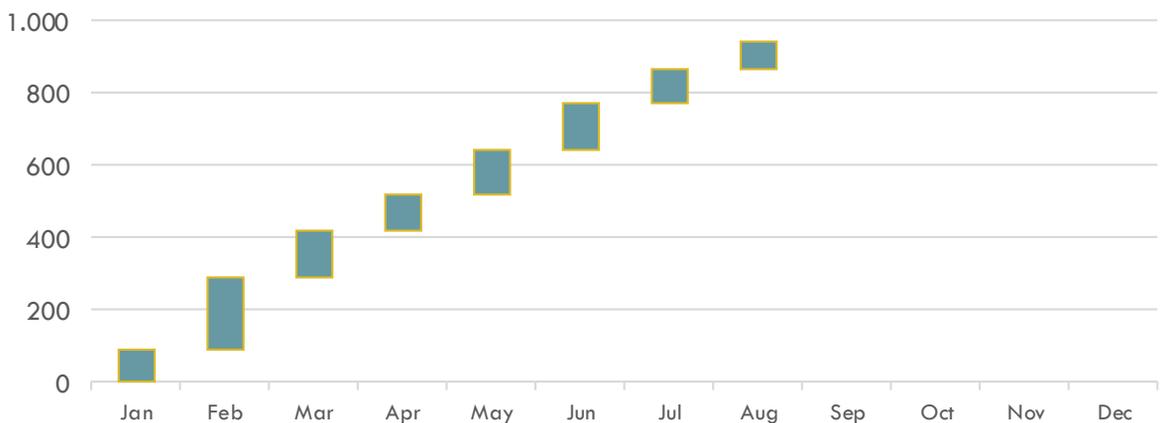
Natural Gas Market Trade Volume (mio.Sm³)



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

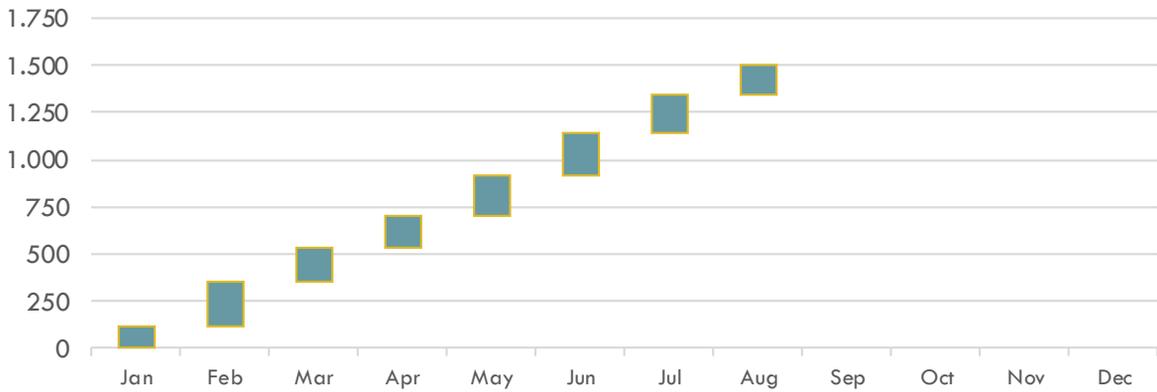


Natural Gas Market Annual Accumulated Trade Volume for 2021 (mio.Sm³)

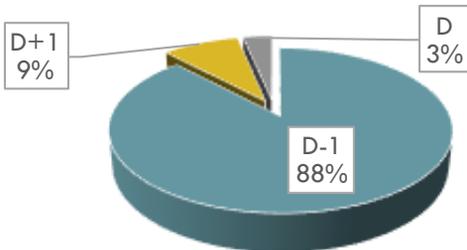


ORDERS, TRADES, VOLUMES (3/3)

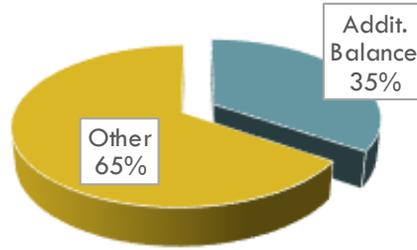
Natural Gas Market Annual Accumulated Transaction Volume for 2021 (Million TL)



Traded Volume of Daily Contracts for August 2021 Period by Sessions



Additional Balancing Traded Volume for August 2021 Period



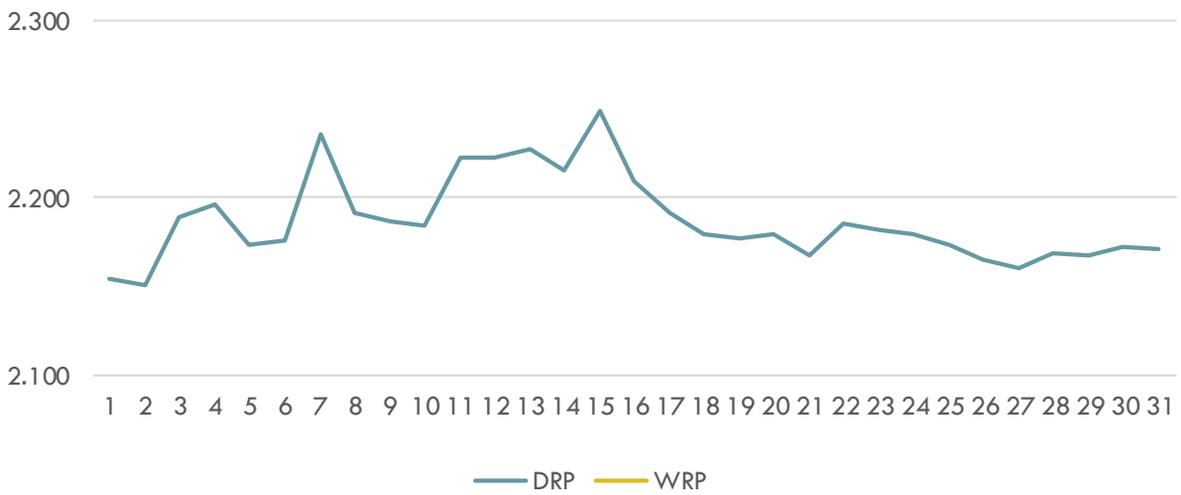
- ✓ The maximum total traded volume was 4.604 sm³ on 07 August 2021 Sat; the minimum total traded volume was realized at the level of 856 sm³ on 15 August 2021 Sun.
- ✓ The maximum total transaction volume was 10.292.613 TL on 07 August 2021 Sat; the minimum total transaction volume was realized at the level of 1.923.465 TL on 15 August 2021 Sun.
- ✓ The maximum d-1 traded volume was 4.388.000 sm³ on 07 August 2021 Sat; the minimum d-1 traded amount was realized at the level of 117.000 sm³ on 15 August 2021 Sun.
- ✓ The maximum d-1 traded volume was 9.807.263 TL on 07 August 2021 Sat; the minimum d-1 traded amount was realized at the level of 259.155 TL on 15 August 2021 Sun.
- ✓ The maximum d traded volume was 708.000 sm³ on 15 August 2021 Sun; the minimum d traded amount was realized at the level of 0 sm³ on 01 August 2021 Sun.
- ✓ The maximum d traded volume was 1.596.445 TL on 15 August 2021 Sun; the minimum d traded amount was realized at the level of 0 TL on 01 August 2021 Sun.
- ✓ The maximum d+1 traded volume was 477.000 sm³ on 04 August 2021 Wed; the minimum d+1 traded amount was realized at the level of 7.000 sm³ on 08 August 2021 Sun.
- ✓ The maximum d+1 traded volume was 1.046.828 TL on 04 August 2021 Wed; the minimum d+1 traded amount was realized at the level of 0 TL on 13 August 2021 Fri.
- ✓ The ratio of ctp compared to total consumption was realized at the level of 1,7% in August 2021.
- ✓ Ctp share in virtual trade was realized at 12,3% in August 2021.

WEEKLY PRODUCTS (1/2)

August 2021 WRP - WD - WE - WW (TL/'000 Sm³)

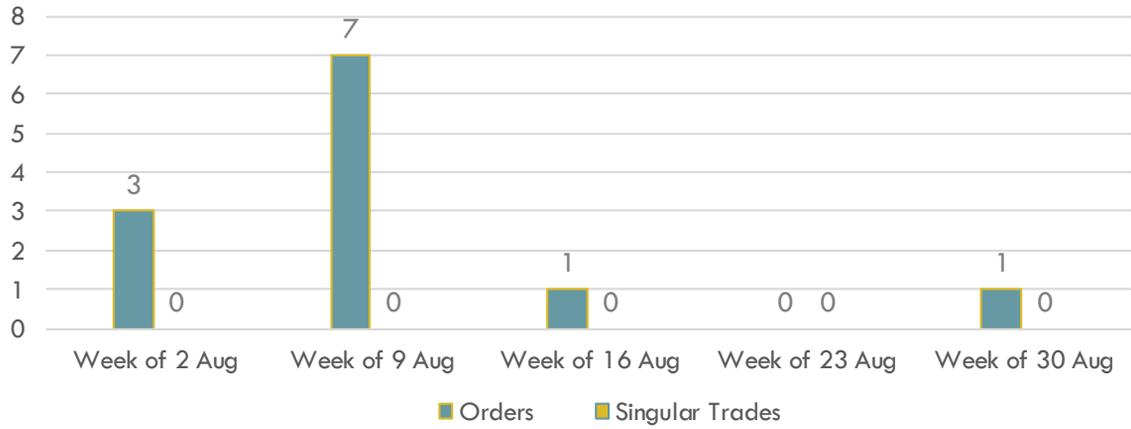


August 2021 DRP - WRP (TL/'000 Sm³)

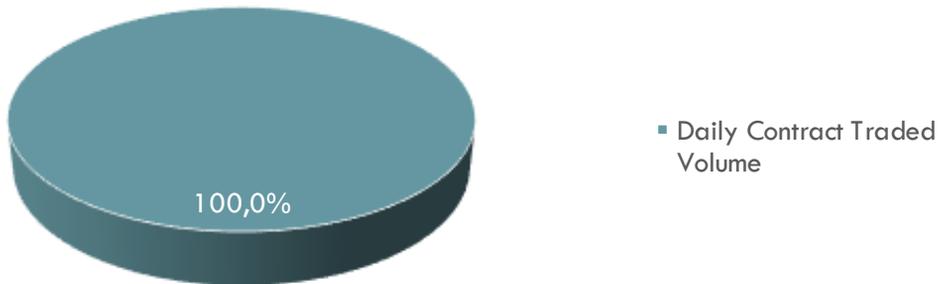


WEEKLY PRODUCTS (2/2)

August 2021 Weekly Products Number of Orders and Trades



August 2021 Traded Volume Distribution by Contract Type



STP

Last 1 Year Trades

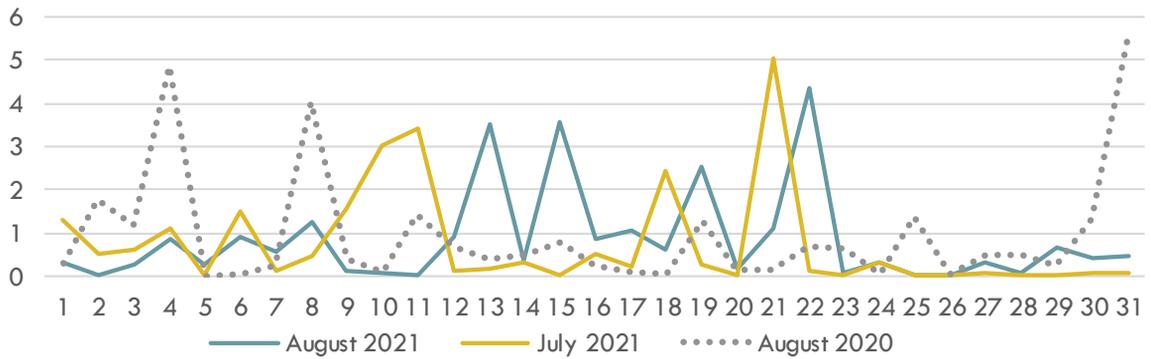
Period	Traded Volume (mio.Sm ³)	Traded Amount (TL)
Aug 2020	226,16	308.420.295
Sep 2020	101,18	134.870.834
Oct 2020	332,09	438.237.257
Nov 2020	140,89	195.036.330
Dec 2020	111,99	146.183.670
Jan 2021	87,85	114.407.452
Feb 2021	199,29	243.462.785
Mar 2021	134,06	176.783.157
Apr 2021	99,70	165.534.142
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

CTP's share in Total Cons. and Virtual Trade

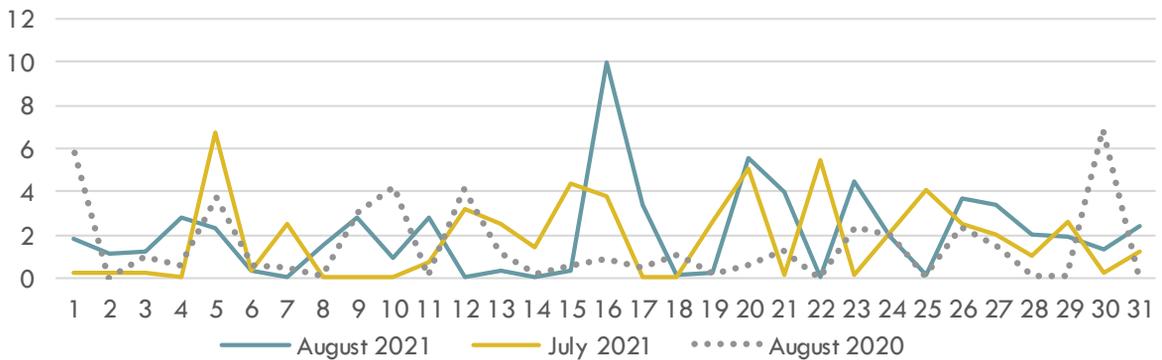
Period	Total Consumption (%)	Virtual Trade (%)
Aug 2020	6,6%	17,4%
Sep 2020	2,7%	7,5%
Oct 2020	8,3%	24,4%
Nov 2020	2,6%	11,2%
Dec 2020	1,7%	9,7%
Jan 2021	1,3%	8,7%
Feb 2021	3,3%	19,4%
Mar 2021	2,1%	12,4%
Apr 2021	2,0%	17,4%
May 2021	3,3%	14,2%
Jun 2021	2,9%	20,7%
Jul 2021	2,3%	16,4%
Aug 2021	1,7%	12,3%

TRANSMISSION SYSTEM DATA (1/2)

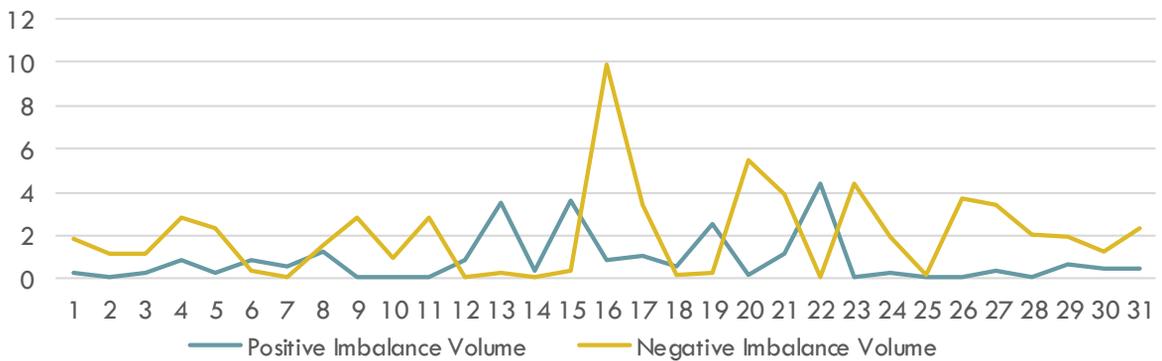
Natural Gas Market Positive Imbalance Volume (mio.Sm³)



Natural Gas Market Negative Imbalance Volume (mio.Sm³)



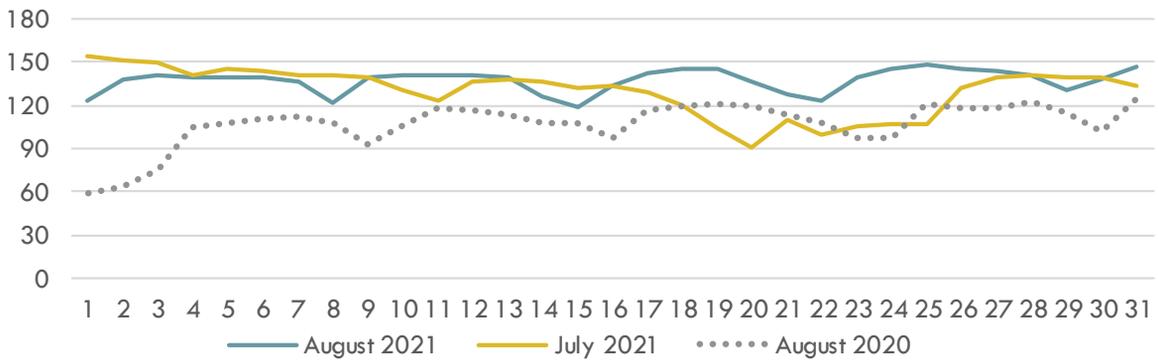
August 2021 Period Negative and Positive Imbalance Volume (mio.Sm³)



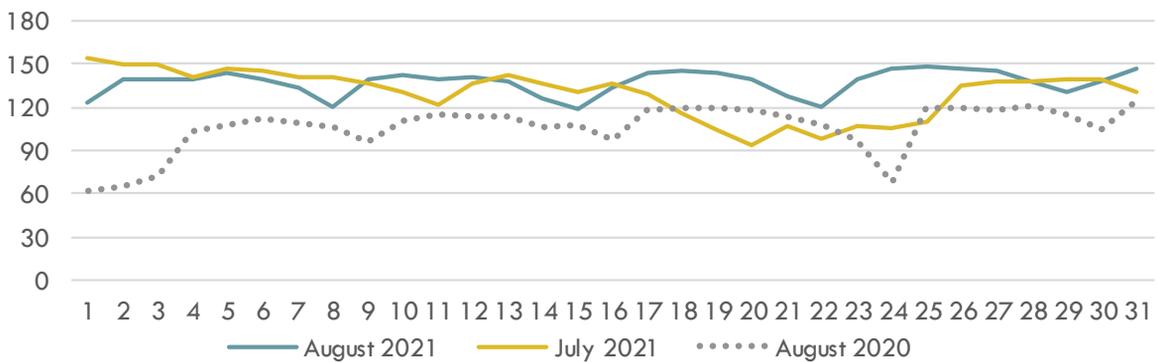
- ✓ The maximum positive imbalance volume was 4.348.450 sm³ on 22 August 2021 Sun; the minimum positive imbalance volume was realized at the level of 22.241 sm³ on 02 August 2021 Mon.
- ✓ The maximum negative imbalance volume was 9.936.021 sm³ on 16 August 2021 Mon; the minimum negative imbalance volume was realized at the level of 44.280 sm³ on 14 August 2021 Sat.

TRANSMISSION SYSTEM DATA (2/2)

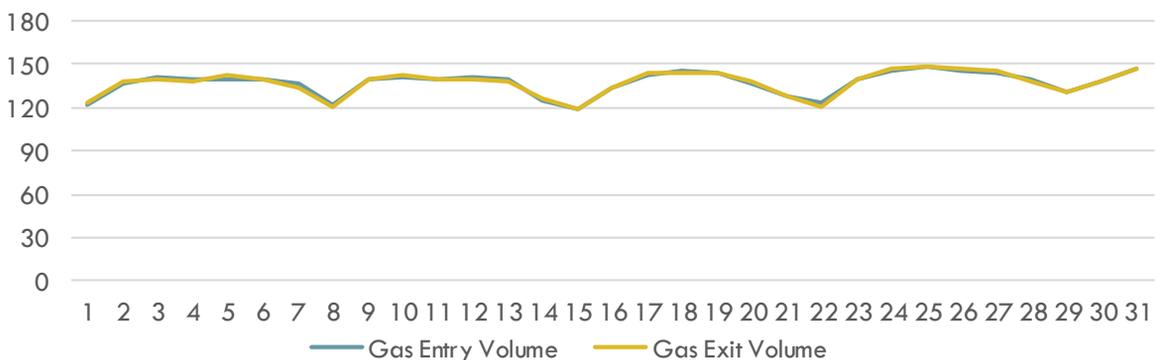
Natural Gas Market Gas Entry Volume (mio.Sm³)



Natural Gas Market Gas Exit Volume (mio.Sm³)



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



- ✓ Maximum gas entry volume realized on 25 August 2021 Wed was 148.383.184 sm³; minimum gas entry volume on 15 August 2021 Sun was 118.804.764 sm³ levels.
- ✓ Maximum gas exit volume realized on 25 August 2021 Wed was 147.972.693 sm³; minimum gas exit volume 15 August 2021 Sun was 119.024.015 sm³ levels.
- ✓ Maximum gas volume in stocks realized on 08 August 2021 Sun was 380.659.171 sm³; minimum stok gas volume 21 August 2021 Sat was 375.987.499 sm³ levels.

ADDITIONAL BALANCING TRANSACTIONS

Transactions with 1 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/ '000 Sm ³)	Direction
01.08.2021	70	2.194	Purchase
02.08.2021	1.050	2.115	Sales
03.08.2021	860	2.190	Purchase
04.08.2021	456	2.198	Purchase
05.08.2021	248	2.166	Sales
06.08.2021	199	2.176	Sales
07.08.2021	2.904	2.237	Purchase
08.08.2021	365	2.206	Sales
09.08.2021	562	2.192	Purchase
10.08.2021	1.221	2.185	Sales
11.08.2021	1.024	2.222	Purchase
12.08.2021	440	2.229	Purchase
13.08.2021	386	2.220	Purchase
14.08.2021	66	2.215	Purchase
16.08.2021	166	2.205	Purchase
17.08.2021	219	2.194	Purchase
18.08.2021	480	2.176	Purchase
19.08.2021	1.016	2.175	Purchase
20.08.2021	398	2.184	Purchase
21.08.2021	271	2.180	Purchase
22.08.2021	3.005	2.185	Purchase
23.08.2021	1.008	2.184	Purchase
24.08.2021	254	2.179	Purchase
25.08.2021	925	2.175	Purchase
26.08.2021	1.778	2.167	Purchase
27.08.2021	515	2.162	Purchase
28.08.2021	2.402	2.176	Purchase
29.08.2021	1.535	2.167	Purchase
30.08.2021	691	2.174	Purchase
31.08.2021	703	2.169	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 3.005.000 sm³ on 22 August 2021 Sun; additional balancing transactions with a minimum code of 1 were realized at the level of 66.000 sm³ on 14 August 2021 Sat.
- ✓ In August, no additional balancing transaction code of 2 was realized.
- ✓ In August, no additional balancing transaction code of 3 was realized.
- ✓ In August, no additional balancing transaction code of 4 was realized.