EBARS NATURAL GAS MARKET MONTHLY BULLETIN

APRIL 2023

SUMMARY DATA (1/2)

	April 2023	March 2023	Monthly Change	April 2022	Annual Change
Number of Ordered Participants	10	9	13.7%	10	-3.0%
Number of Trades	10	9	3.7%	8	24.9%
Number of Orders	27	20	30.8%	22	18.3%
BGSP (TL/'000 Sm ³)	8.641	8.900	-2.9%	11.507	-24.9%
DRP (TL/'000 Sm ³)	9.096	9.368	-2.9%	11.863	-23.3%
BGPP (TL/'000 Sm ³)	9.550	9.837	-2.9%	12.219	-21.8%
Traded Volume (mio.Sm ³)	3,07	3,46	-11.2%	7,21	-57.4%
Transaction Volume (TL)	27.907.253	32.510.596	-14.2%	85.519.923	-67.4%
Gas Entry Volume (mio.Sm ³)	138,49	164,70	-15.9%	138,12	0.3%
Gas Exit Volume (mio.Sm ³)	138,23	164,65	-16.0%	139,50	-0.9%
WRP (TL/'000 Sm³)	-	-	-	-	-

Arithmetic Means

Maximum / Minimum Levels

	April	2023	March	2023	April	2022
	Max	Min	Max	Min	Max	Min
Number of Trades	17	4	17	5	23	2
Number of Ordered Participants	11	8	9	7	16	7
Number of Orders	40	18	32	11	56	11
BGSP (TL/'000 Sm ³)	8.925	8.332	9.606	8.147	11.629	11.325
DRP (TL/'000 Sm ³)	9.395	8.771	10.112	8.575	11.989	11.675
BGPP (TL/'000 Sm ³)	9.864	9.210	10.618	9.004	12.349	12.025
Traded Volume (mio.Sm ³)	7,30	0,33	8,71	0,41	26,14	0,11
Transaction Volume (TL)	68.131.145	2.942.230	87.135.590	3.580.428	309.033.79 5	1.238.500
Gas Exit Volume (mio.Sm ³)	186,52	93,23	205,10	123,74	171,95	106,78
Gas Entry Volume (mio.Sm ³)	183,58	101,95	201,55	123,85	170,53	103,14
WRP (TL/'000 Sm³)	0	0	0	0	0	0

SUMMARY DATA (2/2)

	April 2023	March 2023	Monthly	April 2022	Annual
			Change		Change
Ratio of Natural Gas Based Generation to Total Electricity Generation (%)	15	19	-23.2%	17	-13.6%
Total Production of Natural Gas Based Power Plants (MWh)	3.216.260	4.588.987	-29.9%	4.053.345	-20.7%
Total Electricity Generation (MWh)	22.119.278	24.225.271	-8.7%	24.092.170	-8.2%
Number of Trades	291	290	0.3%	233	24.9%
Number of Orders	796	629	26.6%	673	18.3%
Traded Volume (mio.Sm ³)	92,20	107,25	-14.0%	216,42	-57.4%
Transaction Volume (TL)	837.217.599	1.007.828.484	-16.9%	2.565.597.680	-67.4%
Gas Entry Volume (mio.Sm ³)	4.154,74	5.105,70	-18.6%	4.143,70	0.3%
Gas Exit Volume (mio.Sm³)	4.146,75	5.104,07	-18.8%	4.184,93	-0.9%

Totals

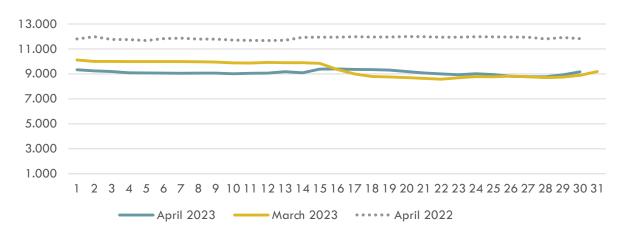
Brent Oil and TTF Prices

	April 2023	March 2023	Monthly Change	April 2022	Annual Change
Brent Oil(\$/bl)	83,37	79,21	5,25%	105,92	-21,29%
TTF (€/M₩h)	42,39	44,86	-5,51%	99,04	-57,20%

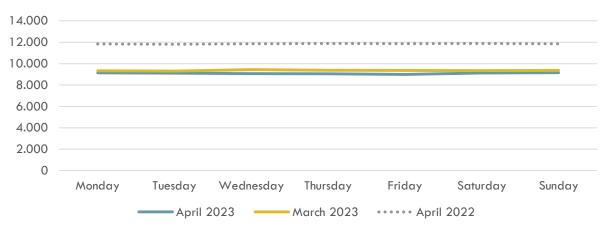


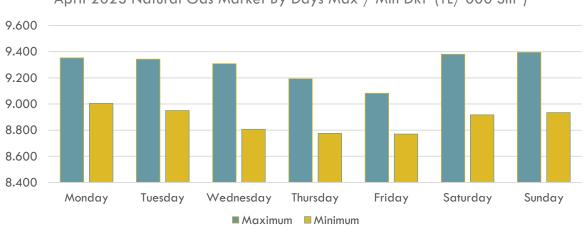
PRICES (1/2)

Natural Gas Market DRP (TL/'000 Sm³)



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

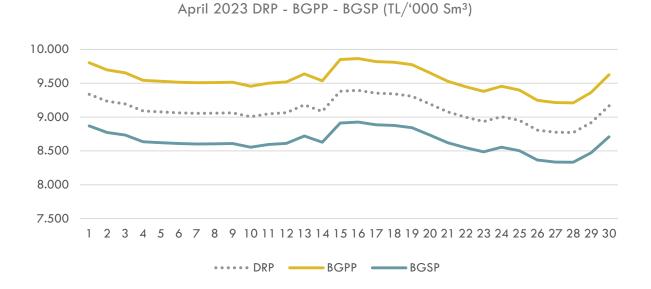




April 2023 Natural Gas Market By Days Max / Min DRP (TL/'000 Sm³)



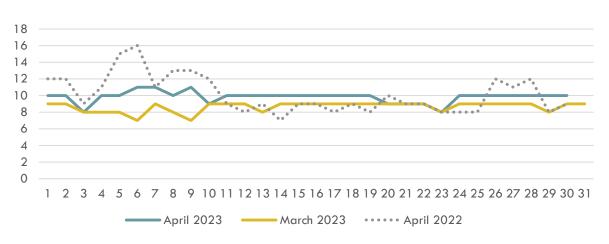
PRICES (2/2)



- ✓ The maximum DRP was 9.395 TL on 16 April 2023 Sun; the minimum DRP was realized at the level of 8.771 TL on 28 April 2023 Fri.
- ✓ The Maximum BGPP was 9.864 on 16 April 2023 Sun; the minimum BGPP was realized at the level of 9.210 TL on 28 April 2023 Fri.
- ✓ The maximum BGSP was 8.925 on 16 April 2023 Sun; the minimum BGSP was realized at the level of 8.332 TL on 28 April 2023 Fri.

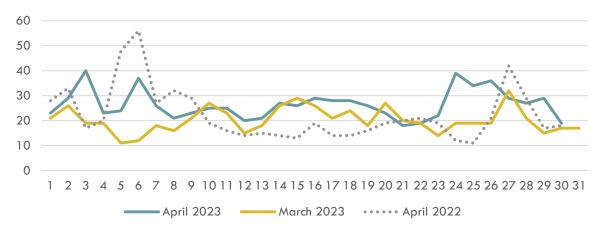


ORDERS, TRADES, VOLUMES (1/3)



Natural Gas Market Number of Ordered Participants

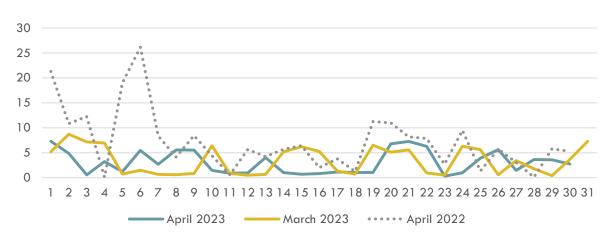
Natural Gas Market Number of Orders





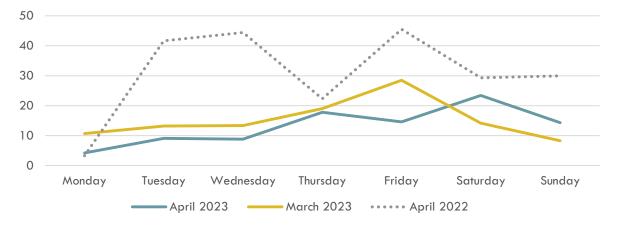
April 2023 Natural Gas Market Number of Orders and Trades

ORDERS, TRADES, VOLUMES (2/3)

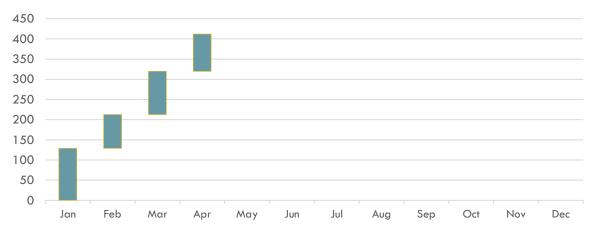


Natural Gas Market Trade Volume (mio.Sm³)

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

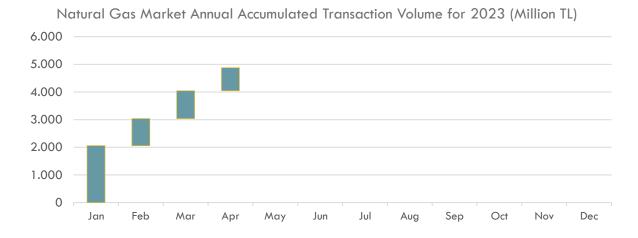




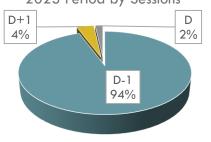




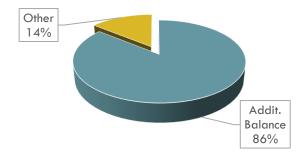
ORDERS, TRADES, VOLUMES (3/3)



Traded Volume of Daily Contracts for April 2023 Period by Sessions



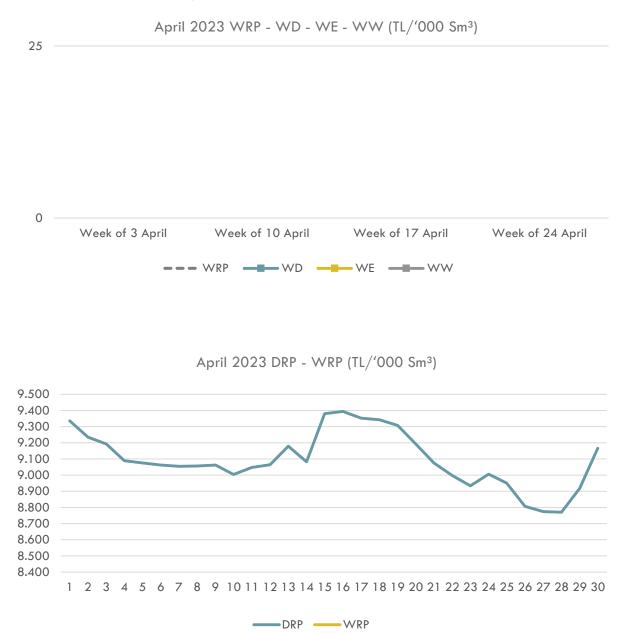
Additional Balancing Traded Volume for April 2023 Period



- ✓ The maximum total traded volume was 7.298 sm³ on 01 April 2023 Sat; the minimum total traded volume was realized at the level of 325 sm³ on 23 April 2023 Sun.
- ✓ The maximum total transaction volume was 68.131.145 TL on 01 April 2023 Sat; the minimum total transaction volume was realized at the level of 2.942.230 TL on 23 April 2023 Sun.
- ✓ The maximum d-1 traded volume was 7.274.000 sm³ on 21 April 2023 Fri; the minimum d-1 traded amount was realized at the level of 1.000 sm³ on 23 April 2023 Sun.
- ✓ The maximum d-1 traded volume was 66.610.790 TL on 01 April 2023 Sat; the minimum d-1 traded amount was realized at the level of 9.400 TL on 23 April 2023 Sun.
- ✓ The maximum d traded volume was 387.000 sm³ on 24 April 2023 Mon; the minimum d traded amount was realized at the level of 0 sm³ on 01 April 2023 Sat.
- ✓ The maximum d traded volume was 3.488.807 TL on 24 April 2023 Mon; the minimum d traded amount was realized at the level of 0 TL on 01 April 2023 Sat.
- ✓ The maximum d+1 traded volume was 460.000 sm³ on 30 April 2023 Sun; the minimum d+1 traded amount was realized at the level of 0 sm³ on 21 April 2023 Fri.
- ✓ The maximum d+1 traded volume was 4.215.759 TL on 30 April 2023 Sun; the minimum d+1 traded amount was realized at the level of 0 TL on 21 April 2023 Fri.
- ✓ The ratio of sgm compared to total consumption was realized at the level of 2,2% in April 2023.
- \checkmark Sgm share in virtual trade was realized at 27,1% in April 2023.

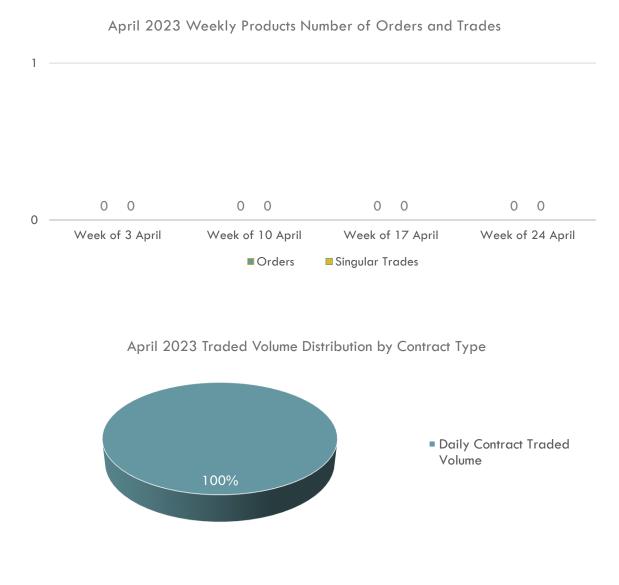


WEEKLY PRODUCTS (1/2)





WEEKLY PRODUCTS (2/2)



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SGM

Last1Year Trades

Period	Traded Volume (mio.Sm ³)	Traded Amount (TL)
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
Nov 2022	80,68	840.078.378
Dec 2022	29,45	570.471.982
Jan 2023	128,85	1.259.193.549
Feb 2023	83,64	976.852.724
Mar 2023	107,25	1.007.828.484
Apr 2023	92,20	837.217.599

SGM''s share in Total Cons. and Virtual Trade

Period	Total Consumption (%)	Virtual Trade (%)
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%
Nov 2022	1,9%	20,9%
Dec 2022	0,5%	5,1%
Jan 2023	2,0%	16,8%
Feb 2023	1,3%	11,3%
Mar 2023	2,0%	30,3%
Apr 2023	2,2%	27,1%

GAS FUTURES MARKET (1/1)

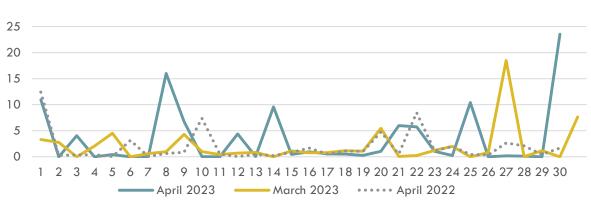
Daily Indicator Price For Contracts (TL)

Contract Name	Average Daily Indicator Price (TL)	Minimum Daily Indicator Price (TL)	Maximum Daily Indicator Price (TL)
GM2305	20.090	20.090	20.090
GM2306	20.625	20.625	20.625
GM2307	19.015	19.015	19.015
GM2308	19.257	19.257	19.257
GM2309	20.225	20.225	20.225
GM2310	20.371	20.371	20.371
GM2311	26.069	26.069	26.069
GM2312	16.429	16.429	16.429
GM2401	21.094	21.094	21.094
GM2402	19.244	19.244	19.244
GM2403	23.432	23.432	23.432
GM2404	13.823	13.823	13.823
GM2405	12.804	12.804	12.804
GQ2303	19.491	19.491	19.491
GQ2304	20.901	20.901	20.901
GQ2401	21.301	21.301	21.301
GQ2402	14.137	14.137	14.137
GY24	22.591	22.591	22.591

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

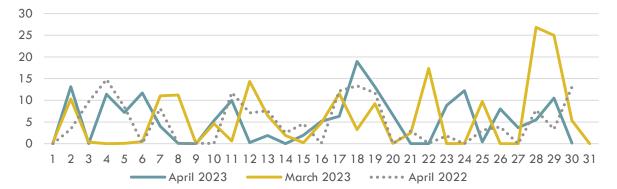
Contract Name	Traded Volume (mio.Sm3)	Traded Amount (TL)	Average Price (TL)
-	-	-	-

TRANSMISSION SYSTEM DATA (1/2)

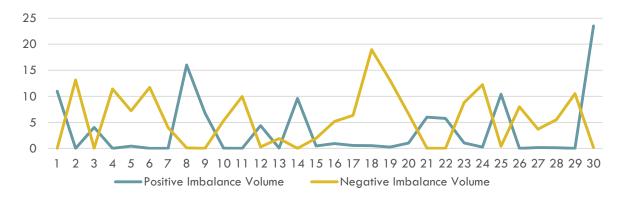


Natural Gas Market Positive Imbalance Volume (mio.Sm³)





April 2023 Period Negative and Positive Imbalance Volume (mio.Sm³)



✓ The maximum positive imbalance volume was 23.528.448 sm³ on 30 April 2023 Sun; the minimum positive imbalance volume was realized at the level of 182 sm³ on 29 April 2023 Sat.

✓ The maximum negative imbalance volume was 18.976.884 sm³ on 18 April 2023 Tue; the minimum negative imbalance volume was realized at the level of 71 sm³ on 01 April 2023 Sat.

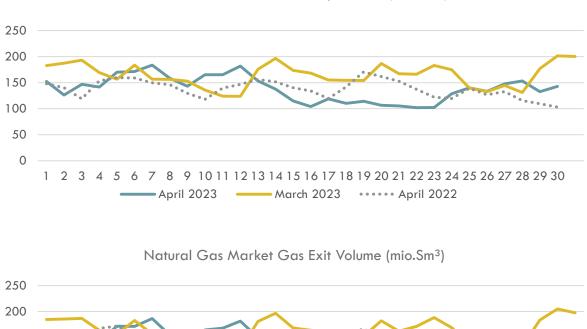


TRANSMISSION SYSTEM DATA (2/2)

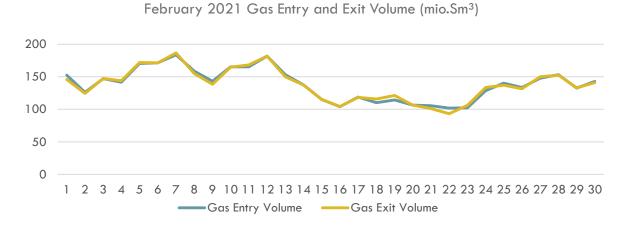
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April 2023



Natural Gas Market Gas Entry Volume (mio.Sm³)



- March 2023

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

••••• April 2022

- ✓ Maximum gas entry volume realized on 07 April 2023 Fri was 183.575.716 sm³; minimum gas entry volume on 22 April 2023 Sat was 101.949.985 sm³ levels.
- ✓ Maximum gas exit volume realized on 07 April 2023 Fri was 186.522.996 sm³; minimum gas exit volume 22 April 2023 Sat was 93.234.067 sm³ levels.
- ✓ Maximum gas volume in stocks realized on 22 April 2023 Sat was 419.781.257 sm³; minimum stok gas volume 19 April 2023 Wed was 406.748.962 sm³ levels.

ADDITIONAL BALANCING TRANSACTIONS

Transactions with 1 Code

Contract Day	Transaction Volume ('000 Sm³)	WAP (TL/ '000 Sm ³)	Direction
01.04.2023	7.030	9.336	Purchase
02.04.2023	4.636	9.236	Purchase
03.04.2023	321	9.195	Purchase
04.04.2023	2.838	9.090	Purchase
05.04.2023	607	9.060	Purchase
06.04.2023	5.077	9.061	Purchase
07.04.2023	2.267	9.056	Purchase
08.04.2023	5.144	9.056	Purchase
09.04.2023	5.214	9.062	Purchase
10.04.2023	1.370	9.004	Purchase
11.04.2023	523	9.015	Purchase
12.04.2023	713	9.045	Purchase
13.04.2023	3.579	9.177	Purchase
14.04.2023	681	9.080	Purchase
15.04.2023	309	9.349	Purchase
16.04.2023	353	9.400	Purchase
17.04.2023	724	9.348	Purchase
18.04.2023	532	9.335	Purchase
19.04.2023	203	9.325	Purchase
20.04.2023	6.171	9.194	Purchase
21.04.2023	7.080	9.075	Purchase
22.04.2023	6.083	8.996	Purchase
24.04.2023	219	8.990	Purchase
25.04.2023	3.763	8.947	Purchase
26.04.2023	4.957	8.800	Purchase
27.04.2023	688	8.745	Purchase
28.04.2023	3.015	8.734	Purchase
29.04.2023	2.928	8.904	Purchase
30.04.2023	2.178	9.163	Purchase

Transactions with 2 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/ '000 Sm³)	Direction
-	-	-	-

Transactions with 3 Code

Contract Day	Transaction Volume ('000 Sm ³)	WAP (TL/ '000 Sm ³)	Direction
-	-	-	-

Transactions with 4 Code

	tract ay	Transaction Volume ('000 Sm ³)	WAP (TL/ '000 Sm³)	Direction
-		-	-	-

- ✓ Additional balancing transactions with a maximum code of 1 were 7.080.000 sm³ on 21 April 2023 Fri; additional balancing transactions with a minimum code of 1 were realized at the level of 203.000 sm³ on 19 April 2023 Wed.
- \checkmark In April, no additional balancing transaction code of 2 was realized.
- $\checkmark~$ In April, no additional balancing transaction code of 3 was realized.
- \checkmark In April, no additional balancing transaction code of 4 was realized.