ANNUAL REPORT ON GAS PRODUCTION, DISTRIBUTION AND CONSUMPTION

2023-24

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HYDROCARBON UNIT
Energy and Mineral Resources Division

Preface

Annual Report entitled Gas Production, Distribution and Consumption was prepared and published by Hydrocarbon Unit for the first time in October 2005. The present one is the issue of Annual Report on Gas Production, Distribution and Consumption for the period of July 2023 to June 2024. In this report, gas production by State-owned Enterprise (SoE), International Oil Companies (IOC) and Joint Venture Undertakings in Bangladesh have been reflected. Daily average gas production rate and Condensate-Gas ratio have been included in the report as well. Moreover, sector-wise gas supply and consumption along with Unaccounted for Gas (UFG) have been illustrated with a monthly graphical presentation.

This report has been prepared based on the data available from the Monthly Reserve and Gas Production Report of HCU and Monthly Information System (MIS) of Petrobangla.

It is expected that the report will be helpful as reference book and elements of interest for the concerned.

The report will also be available at HCU's website: www.hcu.gov.bd

Md. Shameem Khan
Director General (Additional Secretary)

Summary

Annual gas production, Distribution and Consumption report is based on gas and condensate production data received from gas production companies. Information on gas sales and purchase by the producers and distributers is collected from MIS report of Petrobangla. In 2023-24 fiscal year total production of gas logged 747.74 Bcf and daily average production was 2048.63 MMcfd. During the year well wise maximum daily gas production was 1032.82 MMcfd and well wise minimum gas production was 0.93 MMcfd. During this period Total gas consumption was 916.237 BCF and power sector was the highest consumer (392.298 BCF).

Production is little lower than previous year. In 2022-23 fiscal year total gas production was 803.61 Bcf and daily average production 2201.67 MMcfd. In 2023-24 decrease of annual gas production was 55.87 Bcf and daily gas production was 153.04 MMcfd. Total producing gas field was 20. Gas production is largely depended on Bibiyana, Titas, Jalalabad and Habiganj gas fields. These four gas fields provided 83 percent (1698.27 MMcfd out of total daily gas production is 2048.63 MMcfd)

During the year 105 wells in 20 gas fields were flowing. However, during the year, a number of wells were shut down. On the other hand, new wells were added to the production stream. At the end of the year 105 wells were flowing. During this year National Companies produced 290.93 Bcf gas from 66 wells which equals to 797.07 MMcfd. Minimum gas production was recorded from Semutang gas field (0.93 MMcfd).

Chevron and Tullow Oil these two international companies remained active during the period. IOCs production logged 456.82 Bcf which equals to 1251.56 MMcfd.

Report on annual gas production of this year 2023-24 is prepared using daily gas and condensate production data. Information on gas and condensate production was received from the gas production companies. Information on gas purchase and sales is collected from MIS report (June 2024) of Petrobangla.

In the current year four gas fields, Bibiyana, Titas, Jalalabad and Habiganj gas fields produced 619.87 Bcf gas and average gas production was 1698.27 MMcfd. Remaining 127.88 Bcf gas is produced by 16 gas fields.

At present, a total capacity of 1100 mmcfd LNG is added to the national grid. In 2023-24 fiscal year total 247.58 BCF LNG was inported.

During the year total condensate production was 2906340.52 bbl. Bibiyana gas field produced 2110953.00 bbl which was highest among the gas fields. Production is little higher than previous year. In 2022-23 fiscal year total condensate production was 2736941.46 bbl. In 2023-24 increase of annual condensate production was 169399.06 bbl. National Companies produced 453357.30 bbl condensate from 66 wells. Maximum condensate production was recorded from Kailastila gas field (132012.88 bbl). At the same time IOCs production logged 2454748.77 bbl.

Power sector was the highest consumer of natural gas (392.398Bcf) followed by Industry (168.191 Bcf) and Captive (153.596 Bcf).

Table of Contents

List of Tables

List of Figures

1.0 Background

First exploration in Bangladesh is recorded at the beginning of 1908. It was BOC (Burmah Oil Col Co). BOC conducted surface geological mapping in Chittagong area. During 1910 to 1914 exploratory wells were drilled in Staked and presence gas was recorded. These wells were drilled by BOC and IPPC (Indian Petroleum Prospecting Company). Due to First World War exploration activities ceased. After the 1st World exploration activities resumed and during 1923-33 two wells were drilled by BOC in Path aria structure in Baralekha Bazar. Both the wells had oil and gas shows. After the Second World War due to political reason exploration activity remained suspended.

After Independence of India and Pakistan in 1947, exploration activities resumed in 1951. Pakistan Petroleum Limited (PPL), a subsidiary of Burmah Oil Company (BOC), started exploration in greater Sylhet area. This resulted in first discovery of gas in Sylhet (1951-55). Four years later in 1959 gas was discovered in Chattack. Pakistan Petroleum Limited (PPL) was the operator for of these two gas fields. Pakistan Shell Oil Company (PSOC), a subsidiary of Shell Oil started exploration and discovered gas in Rashidpur (1960), Titas (1962), Kailas Tila (1962) and Habiganj (1963).

Gas Production in this part of the world started in 1960-61 fiscal year when Sylhet and Chattack, both the gas fields were open for production. Production from Titas and Habiganj gas fields started in 1968. State participation in petroleum exploration started in 1960 when Oil & Gas Development Corporation was created with technical assistance from former Soviet Union. Semutang Gas Field was discovered in 1970-71.

After independence of Bangladesh, technical assistance fromUSSR (former) reestablished and exploration activity picked up momentum. Begumganj, Feni, Kamta gas fields were discovered during this period. Offshore area of the country was awarded to international companies. During last decade new gas discoveries were made by both national and international companies.

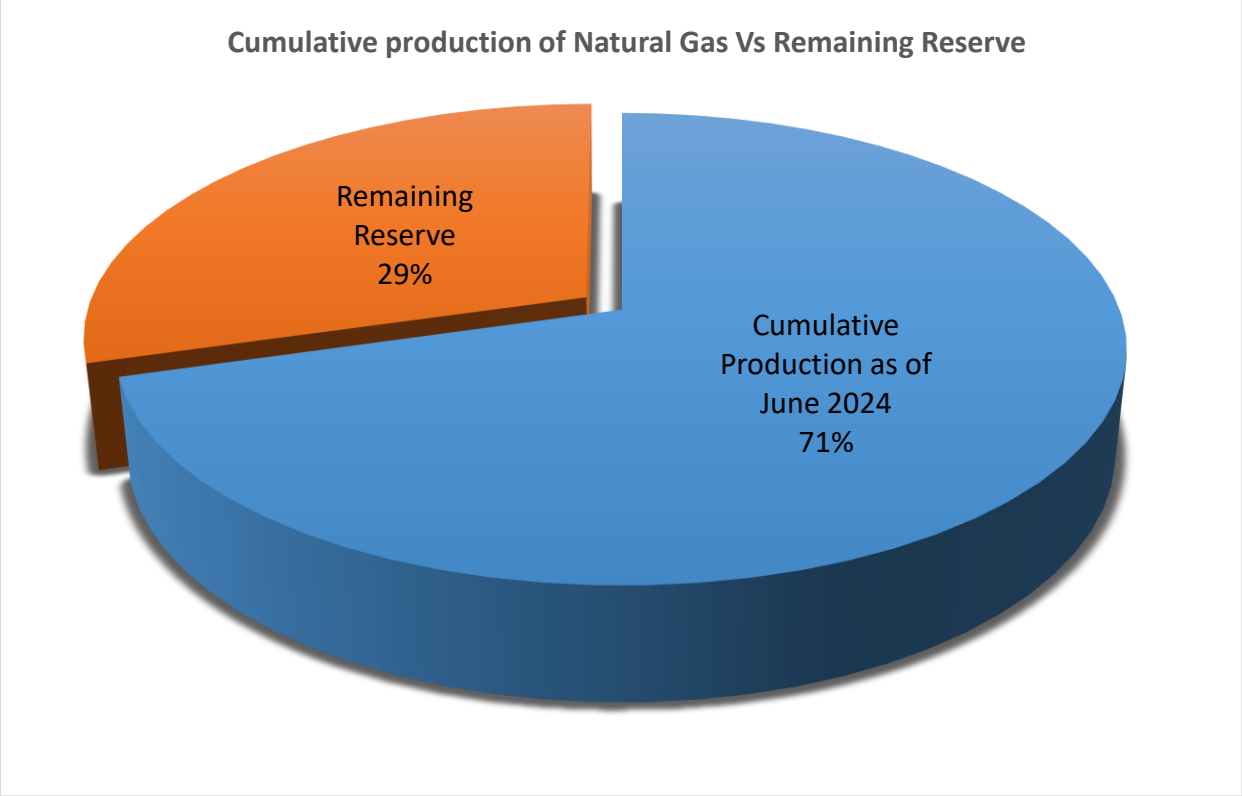
2.0 Gas Reserve and LNG

2.1 Gas Reserve and Production up to June 2024

Table 1: Reserve and Production up to June 2024 at a glance

Gas Initially in Place (Proven + Probable)	40,092.19 Bcf	40.09 Tcf
Recoverable (Proven + Probable)	29,926.10 Bcf	29.93Tcf
Cumulative Production as of June 2024	20,353.41 Bcf	21.099 Tcf
Remaining Reserve	9,573.09 Bcf	8.827 Tcf

Figure 1: Cumulative production of Natural Gas Vs Remaining Reserve



2.2 Liquefied Natural Gas (LNG)

To meet the growing energy demand of the country, the government initiated the import of LNG from abroad. At present, a total capacity of 1100 mmcfd LNG is added to the national grid. Since August 2018, total 1226.24 Bcf LNG is added to the national grid.

- Agreement with Excelerate Energy, Singapore has been signed for setting up FSRU. Already, floating LNG terminal of capacity daily 600 mmcf re-gasified LNG has been installed in Maheshkhali in Cox's Bazar district. SUMMIT LNG Terminal Co. (Pvt) Ltd. has signed the Agreement (BOOT) to set up FSRU at Maheshkhali in Cox's Bazar district with a capacity of supplying daily 500 mmcf re-gasified LNG.

Table 2: LNG Import up to June 2024 at a glance

Total LNG Import in June 2024	18.67	Bcf	0.018	Tcf
Cumulative LNG Import from August 2018 to June 2024	**1226.24**	**Bcf**	**1.226**	**Tcf**
Cumulative LNG Import from July 2023 to June 2024	**247.58**	**Bcf**	**0.247**	**Tcf**

3.0 Gas Productions: (National Gas Producing Companies)

Three national and two international companies produced 747.75 Bcf gas and well wise average daily gas production was 2048.63 MMcfd. During this year decrease in gas production was 55.87 Bcf and daily average gas production decreased 153.04 MMcfd.

Out of total production national companies share was 797.07 MMcfd. Total production of national companies during the year was 290.93 Bcf. In the past year total production by national companies was 823.85 MMcfd. 66 wells were open for production during the year.

Out of total production IOCs share was 1251.56 MMcfd. Total production of IOCs during the year was 456.82 Bcf. IOCs produced this volume of gas using 39 wells. During this year maximum gas production was recorded from Bibiyana Gas field.

Table (Below) compares company wise gas production for 2023-24.

Year of Production	BAPEX (MMcfd)	BGFCL (MMcfd)	SGFL (MMcfd)	Chevron (MMcfd)	Tullow (MMcfd)	Total (MMcfd)
2023-24	129.05	564.12	103.89	1209.84	41.72	2048.63

During the year maximum condensate recovery was 5783.43 bbl/day from Bibiyana gas field. Jalalabad gas field occupied second position and daily condensate recovery was 815.58 bbl/day. Condensate recovery from Kailas Tila gas field was 361.68 bbl/day. In addition to condensate, NGL, Kerosene, HSD, and MS are recovered. Condensate recovery arranged according to volume.

Table below shows volume of liquid products in 1000 liter from well stream.

FY	MS	HSD	NGL	Condensate	SKO
2023-24	365080.181	8938.519	1370	461161.342	22451.606

In 2023-24 fiscal year BAPEX, BGFCL and SGFL operating 20 gas fields in the country. Among them 16 fields are in production and 4 fields are suspended. During the year total production of national companies logged 290.93 Bcf, which equals to 797.07 MMcfd. National companies produced through 66 wells i.e., average well wise production was 12.08 MMcfd.

3.1. Bangladesh Petroleum Exploration and Production Company Ltd. (BAPEX):

BAPEX is the Exploration and Production Company of Petrobangla. During the year this company operated 9 gas fields i.e. Begumganj, Shahbazpur, Salda, Fenchuganj, Semutang, Sundalpur, Srikail, Rupgonj and Feni gas fields. Among them Feni and Rupgonj are suspended for a long time. Rupganj, Sundalpur and Srikail are three discoveries by BAPEX. Geologically Bangura and Srikail could be a single anticline. During the year the company produced 47.10 Bcf gas and daily average gas production rate 129.05 MMcfd. During the year 49681.98 bbl condensate was recovered.

3.1.1 Begumganj Gas Field:

During the year this field produced 2.90 Bcf gas and daily average gas production rate of 7.94 MMcfd. In addition to gas, from this field during the year 839.97 bbl condensate was recovered.

3.1.2 Fenchuganj Gas Field:

During the year this field produced 4.04 Bcf gas and daily average gas production rate of 11.06 MMcfd. In addition to gas, from this field during the year 3043.00 bbl condensate was recovered.

3.1.3 Salda Nadi Gas Field:

Salda Nadi gas field is a small gas field. During the year one well was producing. During the year this field gas produced 1.12 Bcf and daily average gas production rate of 3.07 MMcfd. In addition to gas, from this field during the year 579.86 bbl condensate was recovered.

3.1.4 Shahbazpur Gas Field:

Shahbazpur gas field in located in Shahbazpur i.e. Bhola island. Gas supply is limited within the island. During the year this field gas produced 25.90 Bcf and daily average gas production rate of 70.97 MMcfd. In addition to gas, 3333.80 bbl condensate was recovered during the year from this field

3.1.5 Semutang Gas Field:

This gas field was discovered in 1970-71 by Oil & Gas Development Corporation. After independence the area, including the discovered gas pool was awarded Shell Oil. Shell drilled another well. Shell left the country as the reward was not attractive for them. This field was awarded to BAPEX. This well was completed as a gas producer in December 2011. During the year this field gas produced 0.34 Bcf and daily average gas production rate of 0.93 MMcfd.

3.1.6 Sundalpur Gas Field:

This gas field was discovered by BAPEX in 2011-12. In the same year this gas field was brought into production in March 2011-12. During the year this field gas produced 1.82 Bcf and daily average gas production rate of 5.00 MMcfd. In addition to gas, from this field during the year 64.85 bbl condensate was also recovered.

3.1.7 Srikail Gas Field:

Srikail gas field was discovery of BAPEX. This field was brought into production in on 14 May, 2002. During the year this field gas produced 10.98 Bcf and daily average gas production rate of 30.08 MMcfd. In addition to gas, from this field during the year 41820.50 bbl condensate was also recovered. It may be mentioned here that geologically Srikail is part of Bangura structure. Tulllow is producing from this structure. A joint study on Srikail and Bangura can be initiated for better understanding of the structure.

3.1.8 Rupgonj Gas Field:

This field is suspended since November 2017.

3.1.9 Feni Gas Field

Feni gas field was handed over to NIKO Resources (Bangladesh) Ltd. and BAPEX for operation as per order of Ministry of Energy and Mineral Resources, Government of the People's Republic of Bangladesh. This gas field is suspended for a long time.

Bhola North (2018), Jokiganj (2021) and Ilisha (2023) gas fields are three new discoveries by BAPEX. These two gas fields are not yet in commercial production.

3.2 Bangladesh Gas Fields Company Ltd (BGFCL):

This is the second largest gas producer of the country behind chevron. The company operates Titas, Habiganj, Bakhrabad, Narshingdi, Meghna and Kamta gas fields. Among them Kamta is suspended for a long period. During the year this company gas produced 205.90 Bcf and daily average gas production rate of 564.12 MMcfd. In term of gas reserve, Titas is the largest gas field of the country. During the year 160487.00 bbl condensate was recovered.

3.2.1 Titas Gas Field:

Titas gas field is the largest gas field of the country and second largest gas producer. During the year this field gas produced 140.19 Bcf and daily average gas production rate 384.08 MMcfd. In addition to gas, 131636.00 bbl condensate was recovered from this field during the year.

3.2.2 Habiganj Gas Field:

Habiganj Gas Field is the third largest gas field of the country. During the year Habiganj field gas produced 44.00 Bcf and daily average gas production rate of 120.55 MMcfd. In addition to gas, from this field during the year 2223.00 bbl condensate was recovered.

3.2.3 Bakhrabad Gas Field:

During the year this field gas produced 11.43 Bcf and daily average gas production rate of 31.32 MMcfd. In addition to gas, from this field during the year 13455.00 bbl condensate was recovered.

3.2.4 Narshingdi:

During the year this field produced 9.00 Bcf gas and daily average gas production rate of 24.65 MMcfd. In addition to gas, from this field during the year 11241.00 bbl condensate was recovered.

3.2.5 Meghna Gas Field:

During the year this field gas produced 1.29 Bcf and daily average gas production rate 3.52 MMcfd. Gas production rate was quite stable. In addition to gas, from this field during the year 1932.00 bbl condensate was recovered.

3.2.6 Kamta Gas Field:

This Gas field is suspended for a long time.

3.3 Sylhet Gas Fields Ltd (SGFL):

This company operates five gas fields i.e. Kailas tila, Rashidpur, Beani bazar, Sylhet and Chatak. Chatak is suspended for a long time. During the year this company gas produced 37.92 Bcf and average daily gas production rate of 103.89 MMcfd. During the year 243188.32 bbl condensate was recovered. Brief description of the gas fields is provided below.

3.3.1 Kailas Tila gas field:

This is the main producer of SGFL. During the year this field gas produced 10.26 Bcf and average gas production rate of 28.11 MMcfd. During the year four wells were producing. In addition to gas, liquid product is also recovered. This gas field is quite wet and maximum recovery of liquid was achieved from this gas field. In addition to gas, from this field during the year 132012.88 bbl condensate was recovered.

3.3.2 Rashidpur Gas Field:

During the year this field gas produced 20.14 Bcf and average gas production rate of 55.19 MMcfd. In addition to gas, from this field during the year 14991.55 bbl condensate was recovered.

3.3.3 Beani Bazar Gas Field:

During the year this field gas produced 5.52 Bcf and average gas production rate of 15.11 MMcfd. In addition to gas, from this field during the year 84054.25 bbl condensate was recovered.

3.3.4 Sylhet Gas Field:

This is the oldest producing gas field of the country. Sylhet structure is known for first oil discovery of the country. During the year this field gas produced 2.00 Bcf and average gas production rate of 5.49 MMcfd. In addition to gas, from this field during the year 12129.64 bbl condensate was also recovered.

3.3.5 Chatak Gas Field:

This gas field is suspended for a long time.

4.0 Gas Productions (International Companies)

Chevron and Tullow are two international oil and gas companies (IOCs) operating in the country. During the year Chevron and Tullow gas produced 456.82 Bcf and average daily gas production rate of 1251.56 MMcfd. In average per well gas production of IOCs wells is much higher than that of the national companies. IOCs produce 1251.56 MMcfd using 39 wells and average per well production of IOCs well is 32.09 MMcfd. During the year 2454748.77 bbl condensate was recovered by the IOCs and average daily recovery of condensate was 6725.34 bbl per day.

4.1 Chevron Bangladesh:

This company is the largest producer of gas of the country. Chevron operates three gas fields i.e. Bibiyana, Jalalabad and Moulavi Bazar. It may be mentioned that Bibiyana is the second largest gas field of the country and it is also the largest gas producer of the country. During the year Chevron gas produced 441.59 Bcf and average daily gas production was 1209.84 MMcfd. In addition to gas, this company producer 2409699.77 bbl condensate was recovered.

4.1.1 Bibiyana Gas field:

During the year Bibiyana Gas field gas Produced 376.98 Bcf and average daily gas production rate of 1032.82 MMcfd. In addition to gas, from this field during the year 2110953.00 bbl condensate was also recovered.

4.1.2 Jalalabad Gas field:

Jalalabad is the second gas field operated by Chevron. During the year Jalalabad gas field gas produced 58.70 Bcf and average daily gas production rate of 160.82 MMcfd. In addition to gas, from this field during the year 297687.60 bbl condensate was also recovered.

4.1.3 Moulavi Bazar gas field:

During the year Moulavi Bazar gas field gas produced 5.92 Bcf and average daily gas production rate of 16.21 MMcfd. In addition to gas, from this field during the year 1059.17 bbl condensate was also recovered.

4.2 Tullow Bangladesh Limited:

4.2.1 Bangura gas field:

Tullow Oil operates Bangura gas field. During the year Bangura gas field gas produced 15.23 Bcf and average daily gas production rate of 41.72 MMcfd. In addition to gas, from this field during the year 45049.00 bbl condensate was also recovered.

4.3 Santos Bangladesh Limited

4.3.1 Sangu gas field:

Sangu is the lone offshore gas field operated by Santos from Australia. This gas field is is suspended at October 2013.

5.0 Gas Production (Total Scenario)

During the year gas production has been recorded 747.74 Bcf and average daily gas production was 2048.63 MMcfd. Sector wise gas consumption during the year 916.237 Bcf (including LNG) and average daily gas supply rate of 2510.237MMcfd is shown in Table 29 and Figure 22.

Table 3: Company wise Gas Production in FY 2023-24

SI No.	Name of Company	Total well	Productive well	Producing well	Suspended well	Bcf	MMcfd
1.	BAPEX	35	16	15	1	47.10	129.05
2.	BGFCL	51	51	38	13	205.90	564.12
3.	SGFL	29	22	13	9	37.92	103.89
4.	Chevron	44	44	34	10	441.59	1209.84
5.	Tullow	7	7	5	2	15.23	41.72
6	Santos	9	5	0	5	Suspended	Suspended
	Total	175	**145**	**105**	**40**	747.75	2048.63

Source: HCU Data bank

Figure 2: Company wise Gas Production

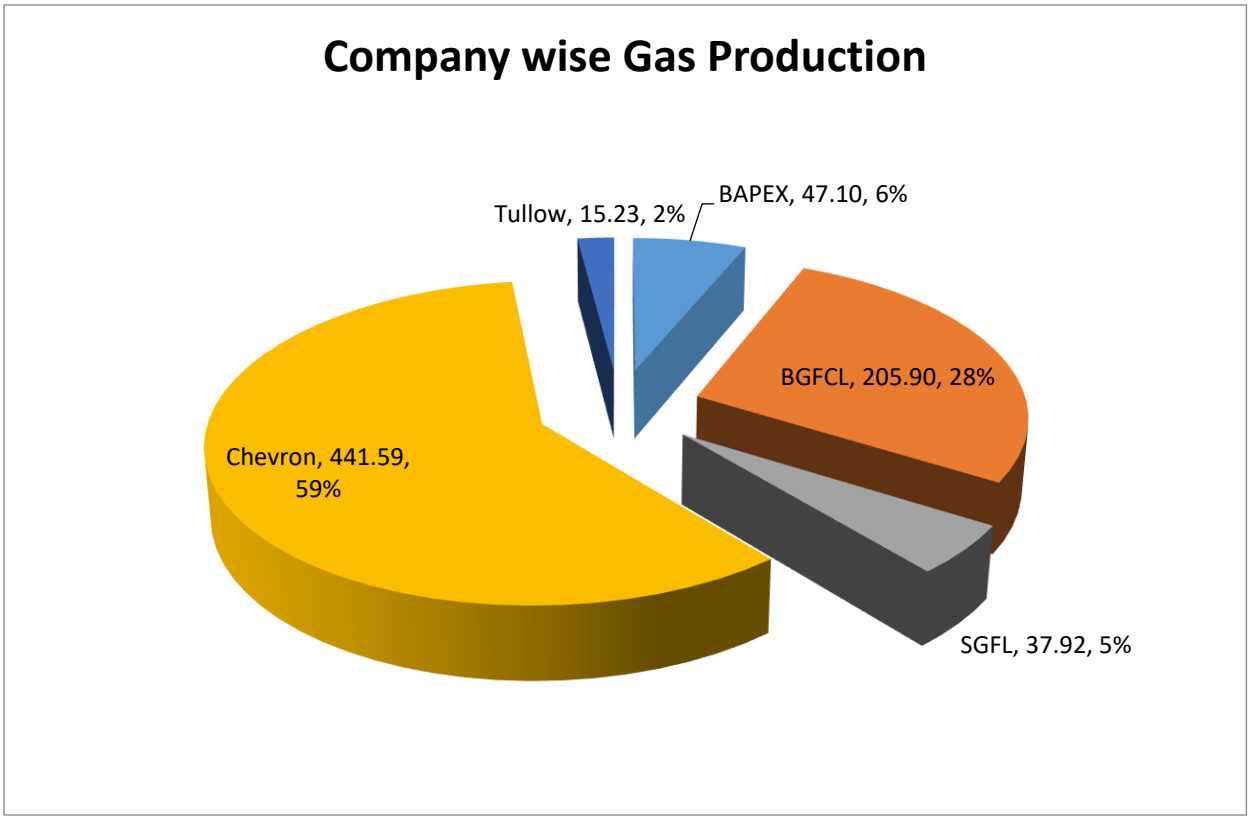


Table 4: Field wise Gas Production in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	Bcf	MMcfd
1.	Begumganj	3	1	1	0	2.90	7.94
2.	Shahbazpur	5	4	3	1	25.90	70.97
3.	Semutang	6	1	1	0	0.34	0.93
4.	Fenchuganj	5	2	2	0	4.04	11.06
5.	Salda Nadi	4	3	3	0	1.12	3.07
6.	Srikail	4	4	4	0	10.98	30.08
7.	Sundalpur	2	1	1	0	1.82	5.00
8.	Rupgonj	1	0	0	0	Suspended	Suspended
9.	Feni	5	5	0	5	Suspended	Suspended
10.	Meghna	1	1	1	0	1.29	3.52
11.	Narshingdi	2	2	2	0	9.00	24.65
12.	Habiganj Gas field	11	11	7	4	44.00	120.55
13.	Bakhrabad	9	10	6	4	11.43	31.32
14.	Titas Gas field	27	26	22	4	140.19	384.08
15.	Kamta	1	1	0	1	Suspended	Suspended
16.	Bibiyana Gas field	26	26	26	0	376.98	1032.82
17.	Moulavi Bazar	9	9	2	7	5.92	16.21
18.	Jalalabad Gas field	9	9	6	3	58.70	160.82
19.	Kailas Tila	7	7	3	4	10.26	28.11
20.	Sylhet	8	5	3	2	2.00	5.49
21.	Rashidpur	11	8	5	3	20.14	55.19
22.	Beani Bazar	2	2	2	0	5.52	15.11
23.	Chatak	1	0	0	0	Suspended	Suspended
24.	Bangura	7	7	5	2	15.23	41.72
25.	Sangu	9	0	0	0	Suspended	Suspended
Total		**175**	**145**	**105**	**40**	747.75	2048.63

Source: HCU Data bank

Figure 3: Field wise Gas Production

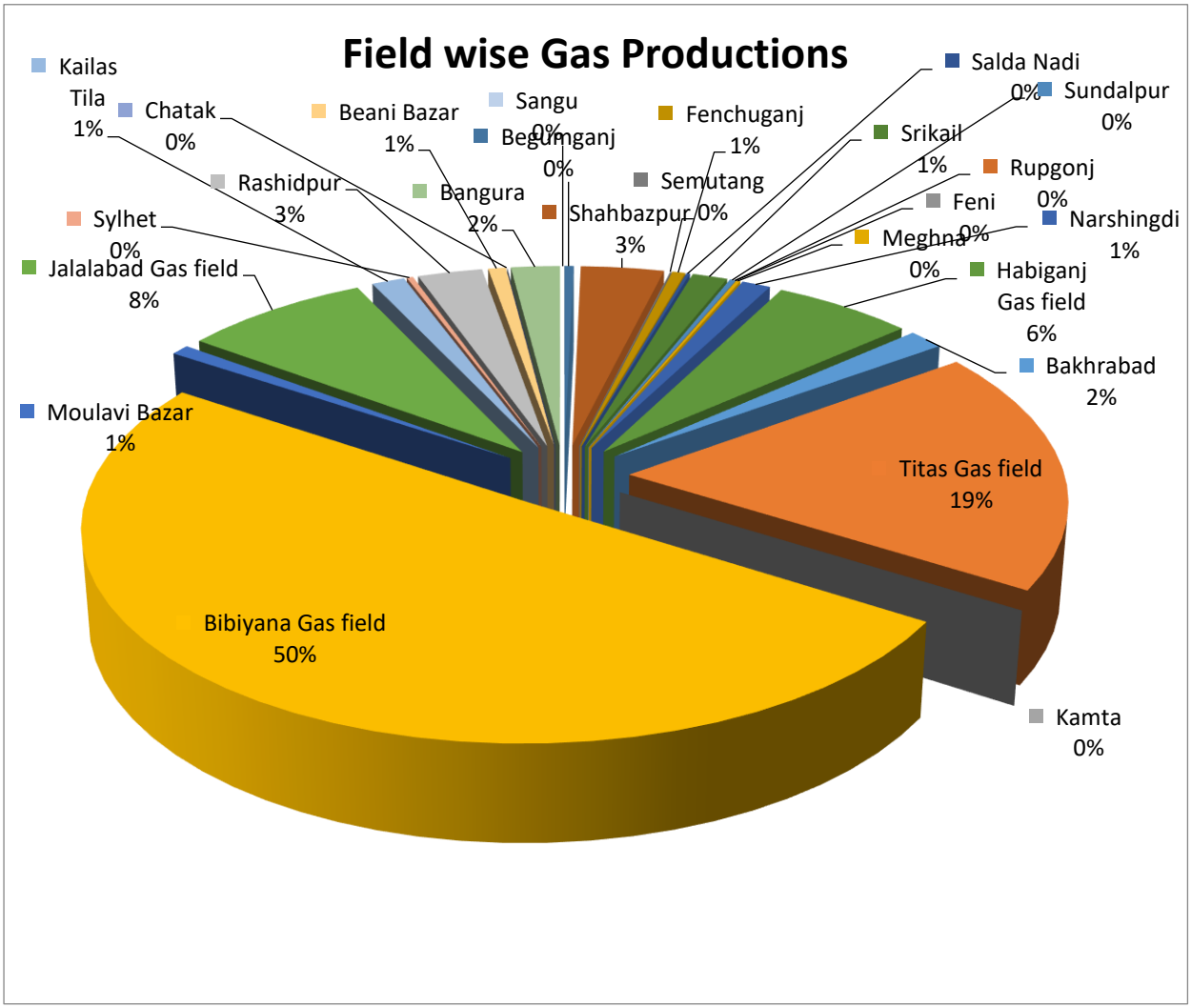


Table 5: Major four (4) Gas producing fields in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	Bcf	MMcfd
1.	Habiganj Gas field	11	11	7	4	44.00	120.55
2.	Titas Gas field	27	26	22	4	140.19	384.08
3.	Bibiyana Gas field	26	26	26	0	376.98	1032.82
4.	Jalalabad Gas field	9	9	6	3	58.70	160.82
Total		73	72	61	11	619.87	1698.27

Source: HCU Data bank

Figure 4: Major four (4) Gas producing fields

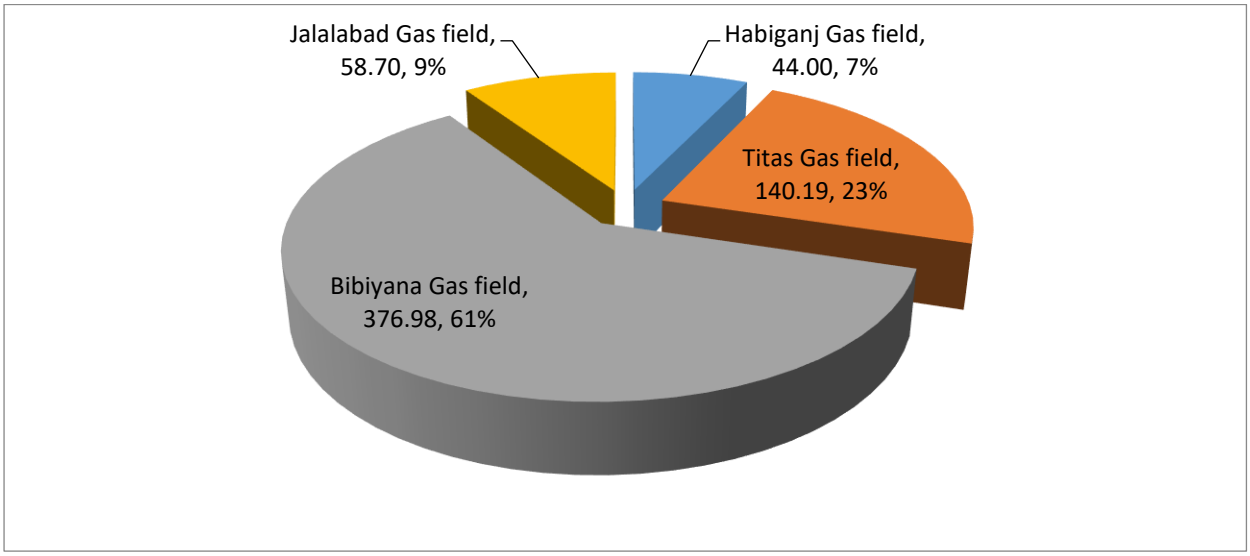


Table 6: Comparison of Annual Gas Production by National Companies in FY 2023-24

SI No.	Name of National Company	Total well	Productive well	Producing well	Suspended well	Bcf	MMcfd
1.	BAPEX	35	16	15	1	47.10	129.05
2.	BGFCL	51	51	38	13	205.90	564.12
3.	SGFL	29	22	13	9	37.92	103.89
	Total	115	89	66	23	290.93	797.07

Source: HCU Data bank

Figure 5: Comparison of Annual Gas production by National Companies

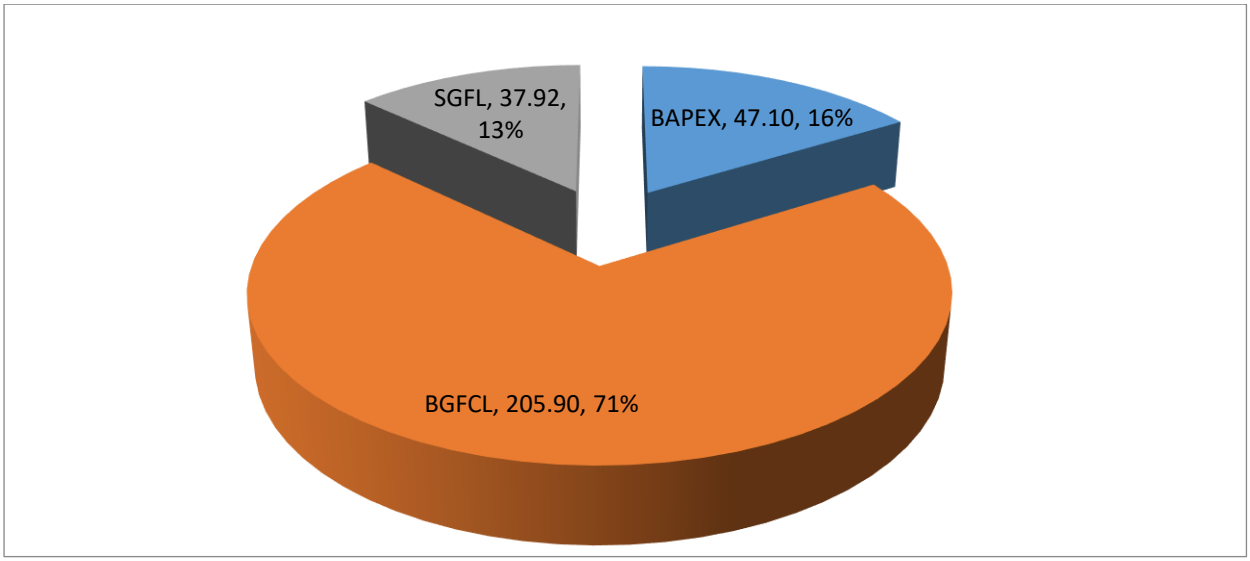


Table 7: Field wise Annual Gas Production of Gas Fields Under National Companies, FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	Bcf	MMcfd
1.	Begumganj	3	1	1	0	2.90	7.94
2.	Shahbazpur	5	4	3	1	25.90	70.97
3.	Semutang	6	1	1	0	0.34	0.93
4.	Fenchuganj	5	2	2	0	4.04	11.06
5.	Salda Nadi	4	3	3	0	1.12	3.07
6.	Srikail	4	4	4	0	10.98	30.08
7.	Sundalpur	2	1	1	0	1.82	5.00
8.	Rupgonj	1	0	0	0	0.00	0.00
9.	Feni	5	5	0	5	Suspended	Suspended
10.	Meghna	1	1	1	0	1.29	3.52
11.	Narshingdi	2	2	2	0	9.00	24.65
12.	Habiganj Gas field	11	11	7	4	44.00	120.55
13.	Bakhrabad	9	10	6	4	11.43	31.32
14.	Titas Gas field	27	26	22	4	140.19	384.08
15.	Kamta	1	1	0	1	Suspended	Suspended
16.	Kailas Tila	7	7	3	4	10.26	28.11
17.	Sylhet	8	5	3	2	2.00	5.49
18.	Rashidpur	11	8	5	3	20.14	55.19
19.	Beani Bazar	2	2	2	0	5.5150556	15.11
20.	Chatak	1	0	0	0	Suspended	Suspended
Total		115	94	66	28	290.93	797.07

Source: HCU Data bank

Figure 6: Field wise Annual Gas production of National Companies

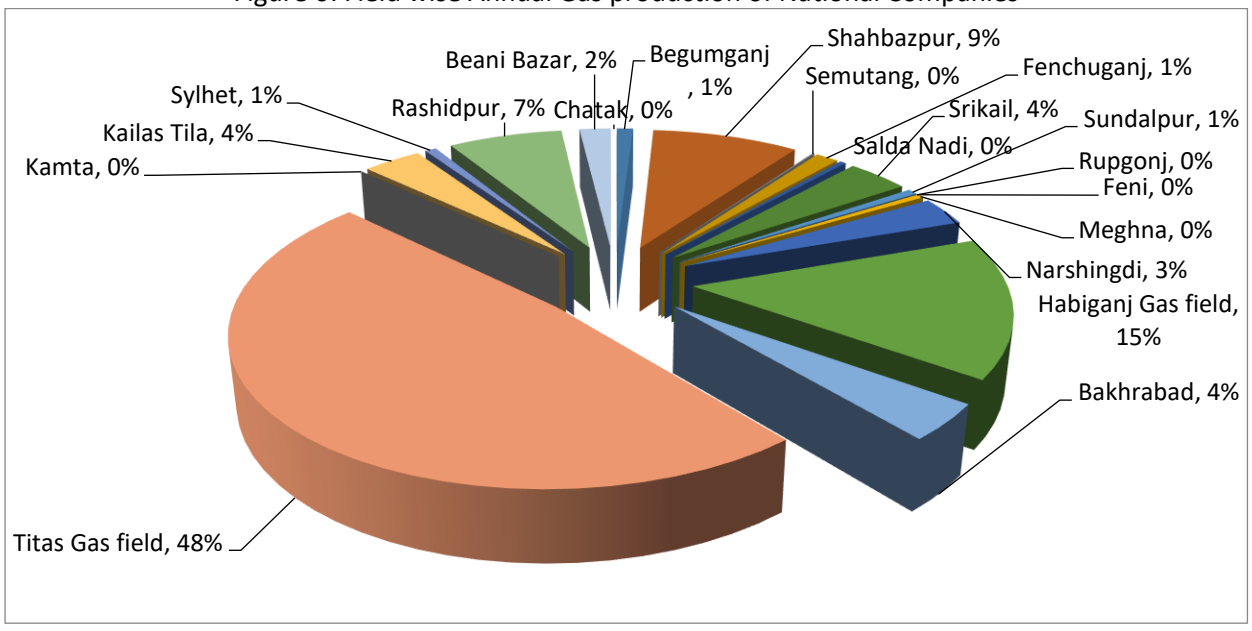


Table 8: Field wise Gas Production in BAPEX in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	Bcf	MMcfd
1.	Begumganj	3	1	1	0	2.90	7.94
2.	Shahbazpur	5	4	3	1	25.90	70.97
3.	Semutang	6	1	1	0	0.34	0.93
4.	Fenchuganj	5	2	2	0	4.04	11.06
5.	Salda Nadi	4	3	3	0	1.12	3.07
6.	Srikail	4	4	4	0	10.98	30.08
7.	Sundalpur	2	1	1	0	1.82	5.00
8.	Rupgonj	1	0	0	0	Suspended	Suspended
9	Feni	5	5	0	5	Suspended	Suspended
Total		35	21	15	6	47.10	129.05

Source: HCU Data bank

Figure 7: Field wise Gas Production in BAPEX

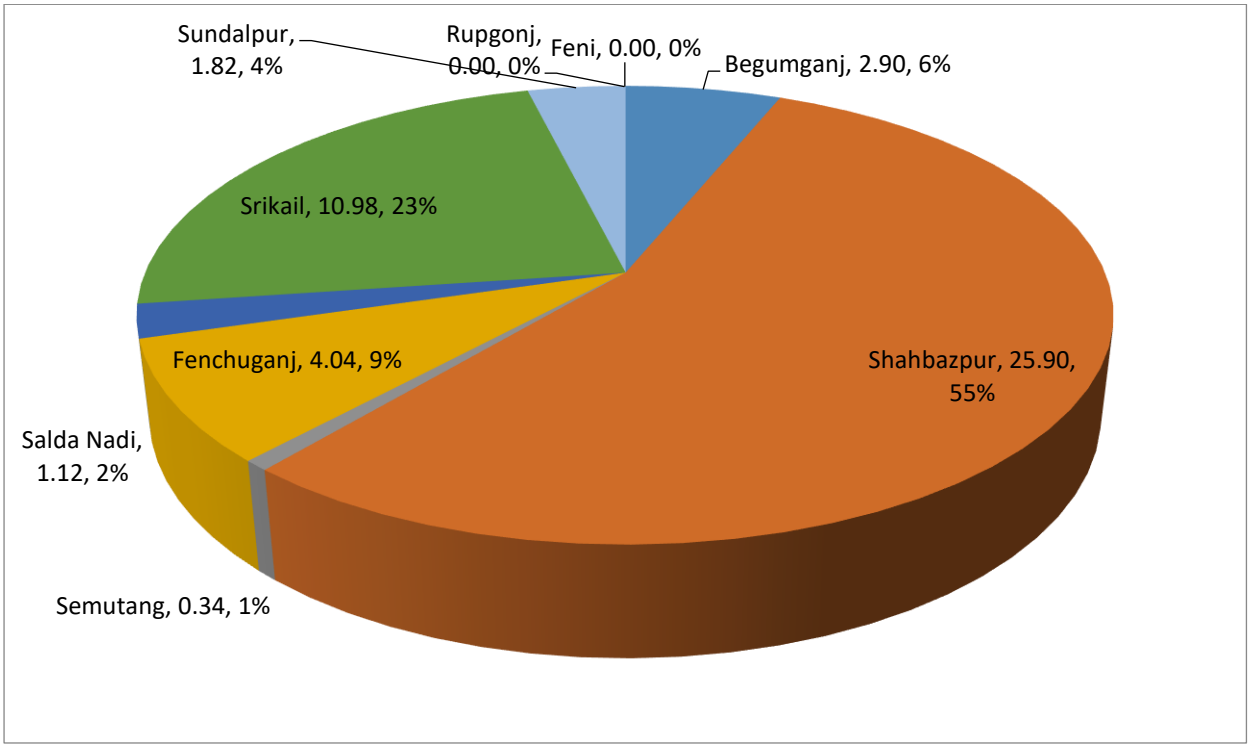


Table 9: Field wise Gas Production in BGFCL in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	Bcf	MMcfd
1.	Meghna	1	1	1	0	1.29	3.52
2.	Narshingdi	2	2	2	0	9.00	24.65
3.	Habiganj Gas field	11	11	7	4	44.00	120.55
4.	Bakhrabad	9	10	6	4	11.43	31.32
5.	Titas Gas field	27	26	22	4	140.19	384.08
6.	Kamta	1	1	0	1	Suspended	Suspended
	Total	51	51	38	13	205.90	564.12

Source: HCU Data bank

Figure 8: Field wise Gas Production in BGFCL

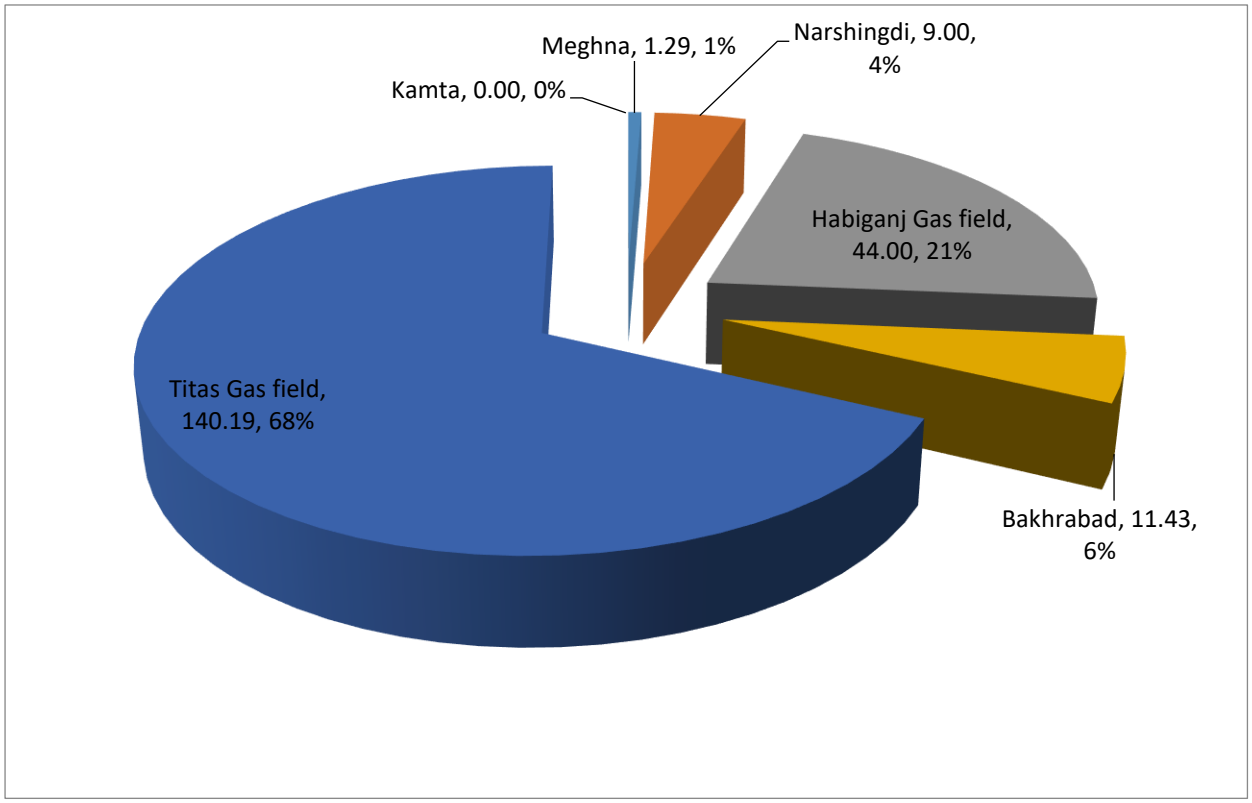


Table 10: Field wise Gas Production in SGFL in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	Bcf	MMcfd
1.	Kailas Tila	7	7	3	4	10.26	28.11
2.	Sylhet	8	5	3	2	2.00	5.49
3.	Rashidpur	11	8	5	3	20.14	55.19
4.	Beani Bazar	2	2	2	0	5.52	15.11
5.	Chatak	1	0	0	0	Suspended	Suspended
Total		29	22	13	9	37.92	103.89

Source: HCU Data bank

Figure 9: Field wise Gas Production in SGFL

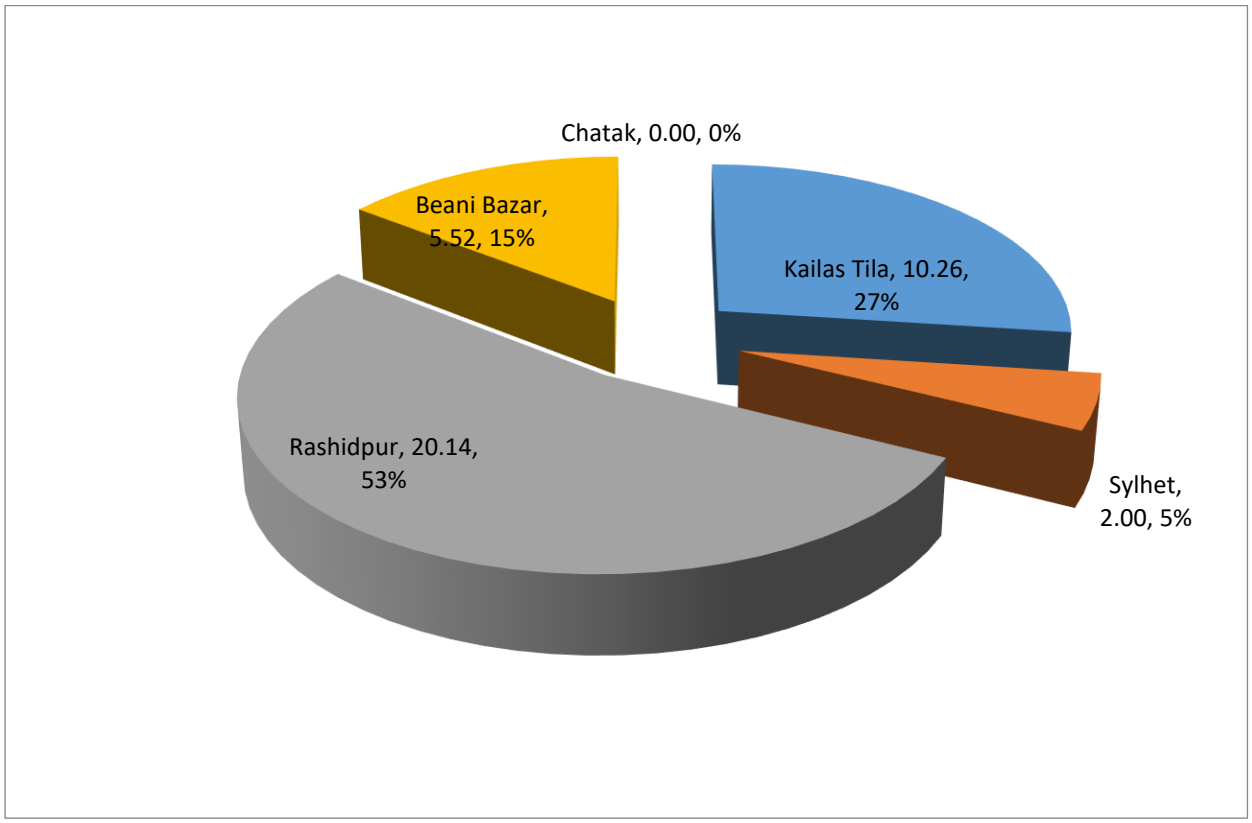


Table 11: Comparison of Annual Gas Production by International Companies in FY 2023-24

Sl No.	Name of Company	Total well	Productive well	Producing well	Suspended well	Bcf	MMcfd
1.	Chevron	44	44	34	10	441.59	1209.84
2.	Tullow	7	7	5	2	15.23	41.72
3.	Santos	9	0	0	0	Suspended	Suspended
Total		60	51	39	12	456.82	1251.56

Source: HCU Data bank

Figure 10: Comparison of Annual Gas Production by International Companies

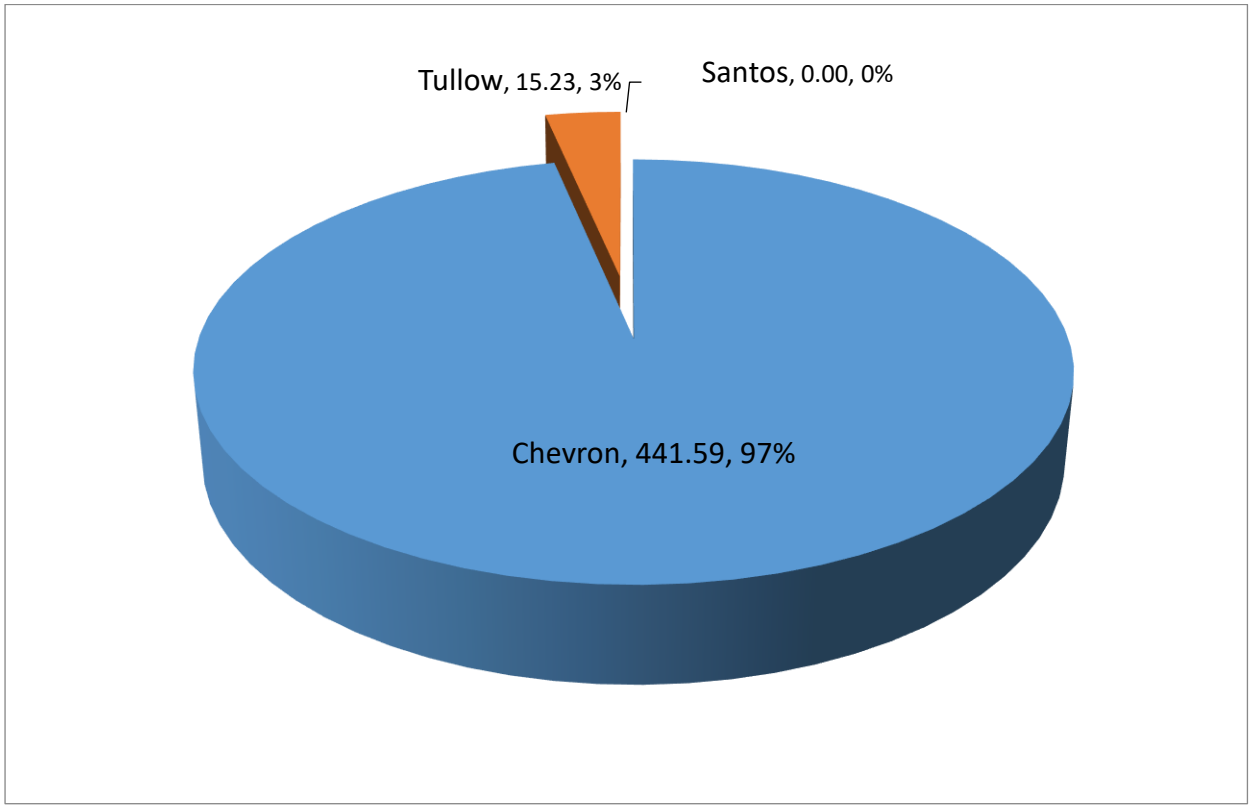


Table 12: Field wise Gas Production by IOCs in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	Bcf	MMcfd
1.	Bibiyana Gas field	26	26	26	0	376.98	1032.82
2.	Moulavi Bazar	9	9	2	7	5.92	16.21
3.	Jalalabad Gas field	9	9	6	3	58.70	160.82
4.	Bangura	7	7	5	2	15.23	41.72
5.	Sangu	9	0	0	0	Suspended	Suspended
Total		60	51	39	12	456.82	1251.56

Source: HCU Data bank

Figure 11: Field wise Gas Production of IOCs

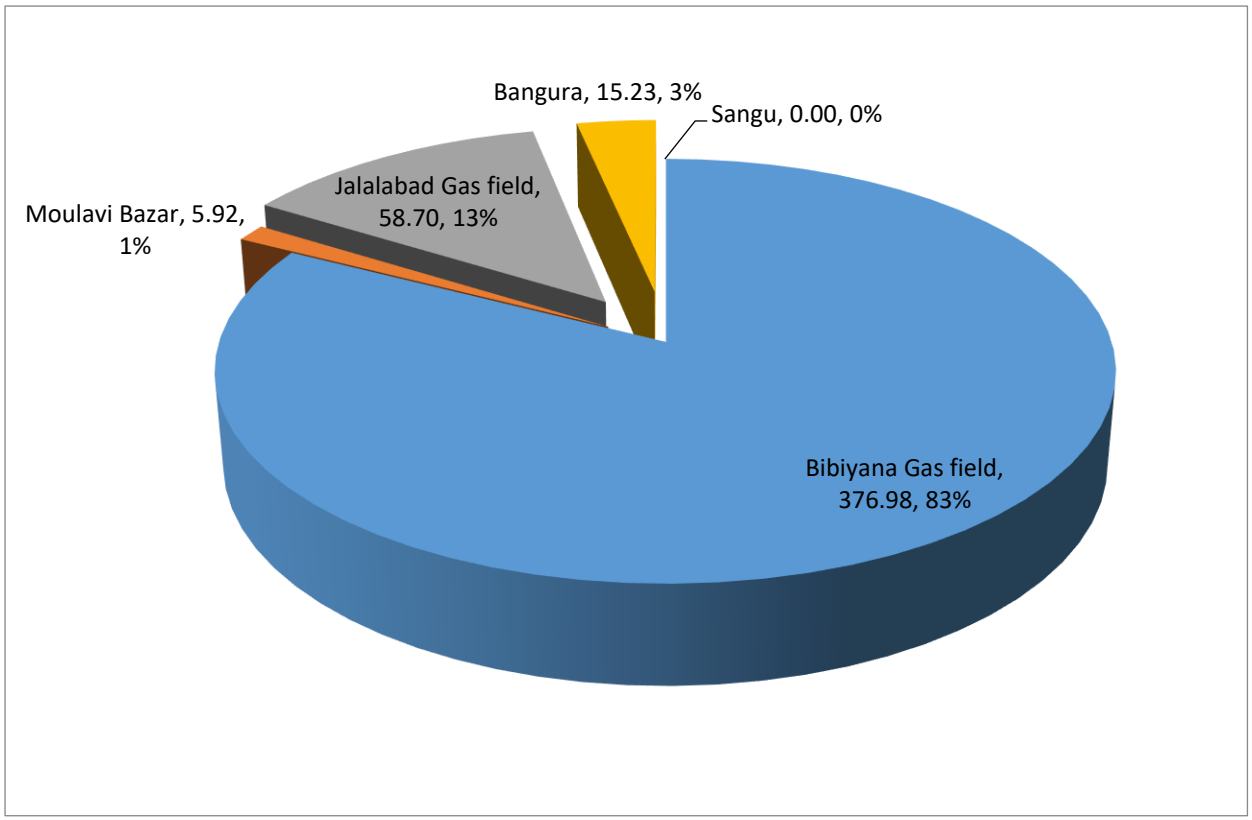


Table 13: Field wise Gas Production by Chevron Operated Gas Fields in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	Bcf	MMcfd
1.	Bibiyana Gas field	26	26	26	0	376.98	1032.82
2.	Moulavi Bazar	9	9	2	7	5.92	16.21
3.	Jalalabad Gas field	9	9	6	3	58.70	160.82
Total		44	44	34	10	441.59	1209.84

Source: HCU Data bank

Figure 12: Field wise Gas Production by Chevron operated Gas Fields

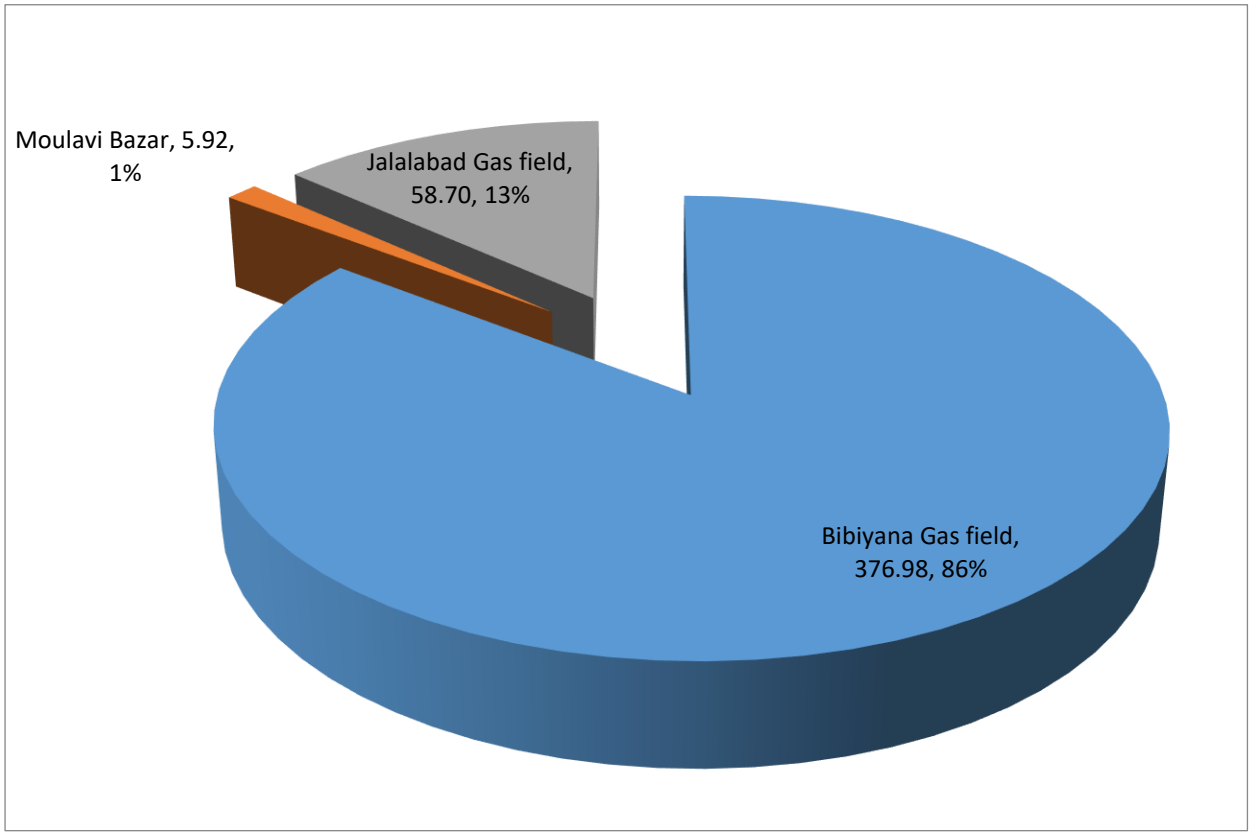


Table 14: Field wise Condensate Recovery in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	bbl/year	bbl/month	bbl/day
1	Begumganj	3	1	1	0	839.97	70.00	2.30
2	Shahbazpur	5	4	3	1	3333.80	277.82	9.13
3	Semutang	6	1	1	0	0.00	0.00	0.00
4	Fenchuganj	5	2	2	0	1277.45	106.45	3.50
5	Salda Nadi	4	3	3	0	579.86	48.32	1.59
6	Srikail	4	4	4	0	41820.50	3485.04	114.58
7	Sundalpur	2	1	1	0	64.85	5.40	0.18
8	Rupgonj	1	0	0	0	Suspended	Suspended	Suspended
9	Feni	5	5	0	5	Suspended	Suspended	Suspended
10	Meghna	1	1	1	0	1932.00	161.00	5.29
11	Narshingdi	2	2	2	0	11241.00	936.75	30.80
12	Habiganj Gas field	11	11	7	4	2223.00	185.25	6.09
13	Bakhrabad	9	10	6	4	13455.00	1121.25	36.86
14	Titas Gas field	27	26	22	4	131636.00	10969.67	360.65
15	Kamta	1	1	0	1	Suspended	Suspended	Suspended
16	Bibiyana Gas field	26	26	26	0	2110953.00	175912.75	5783.43
17	Moulavi Bazar	9	9	2	7	1059.17	88.26	2.90
18	Jalalabad Gas field	9	9	6	3	297687.60	24807.30	815.58
19	Kailas Tila	7	7	3	4	132012.88	11001.07	361.68
20	Sylhet	8	5	3	2	12129.64	1010.80	33.23
21	Rashidpur	11	8	5	3	14991.55	1249.30	41.07
22	Beani Bazar	2	2	2	0	84054.25	7004.52	230.29
23	Chatak	1	0	0	0	Suspended	Suspended	Suspended
24	Bangura	7	7	5	2	45049.00	3754.08	123.42
25	Sangu	9	0	0	0	Suspended	Suspended	Suspended
Total		**175**	**145**	**105**	**40**	2906340.52	242195.04	7962.58

Source: HCU Data bank

Figure 13: Field wise Condensate Recovery in bbl

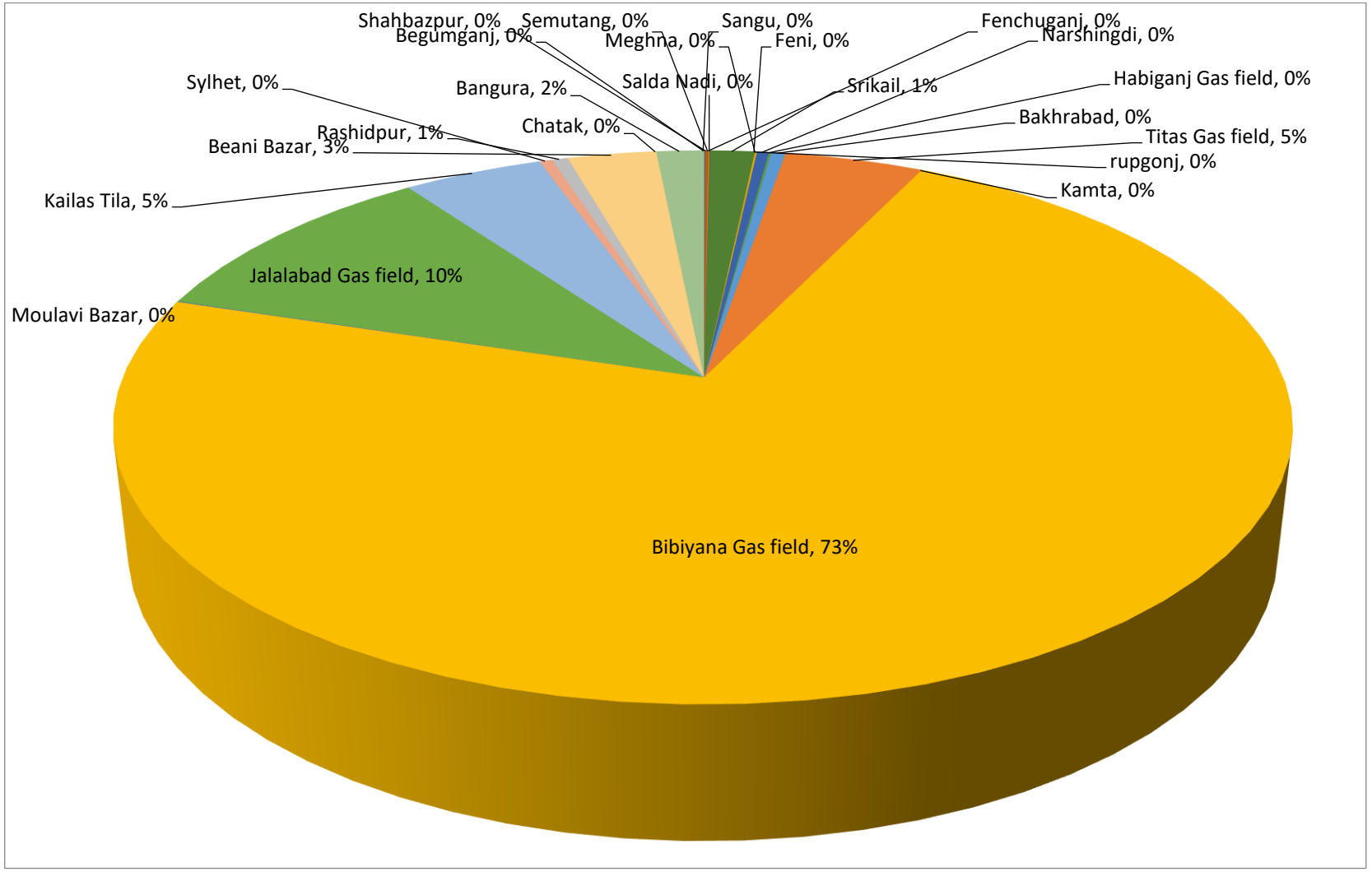


Table 15: Comparison of Condensate Production by National Companies in FY 2023-24

SI No.	Name of National Company	Total well	Productive well	Producing well	Suspended well	bbl/Year	bbl /Month	bbl/Day
1.	BAPEX	35	16	15	1	49681.98	4140.17	136.12
2.	BGFCL	51	51	38	13	160487.00	13373.92	439.69
3.	SGFL	29	22	13	9	243188.32	20265.69	666.27
Total		115	89	66	23	453357.30	37779.78	1242.07

Source: HCU Data bank

Figure 14: Comparison of Condensate production by National Companies

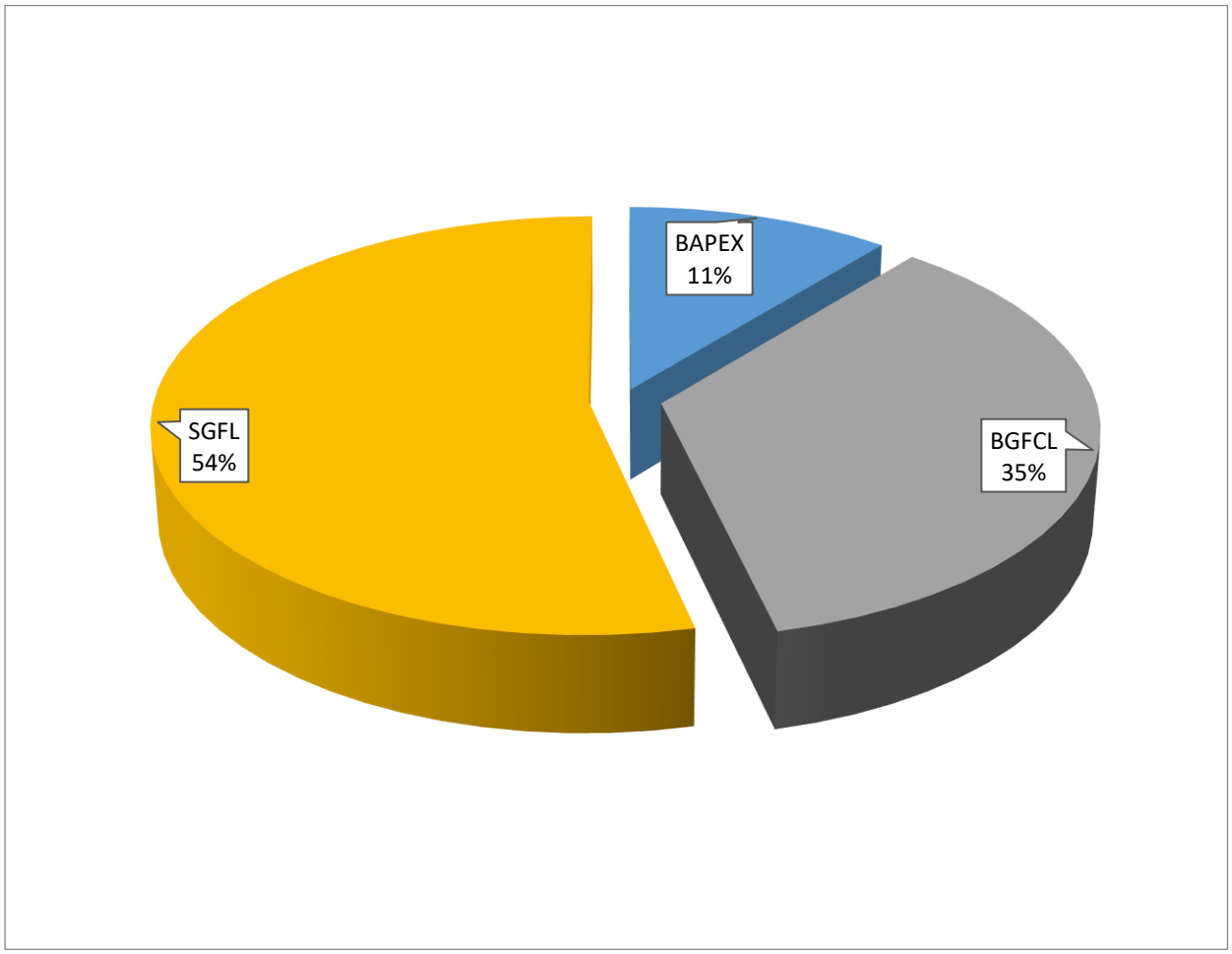


Table 16: Comparison of Condensate Production by IOCs in FY 2023-24

SI No.	Name of Company	Total well	Productive well	Producing well	Suspended well	bbl /Year	bbl /Month	bbl /Day
1.	Chevron	44	44	34	10	2409699.77	200808.31	6601.92
2.	Tullow	7	7	5	2	45049.00	3754.08	123.42
3.	Santos (Sangu)	9	0	0	0	Suspended	Suspended	Suspended
Total		60	51	39	12	2454748.77	204562.40	6725.34

Source: HCU Data bank

Figure 15: Comparison of Condensate production by International Companies

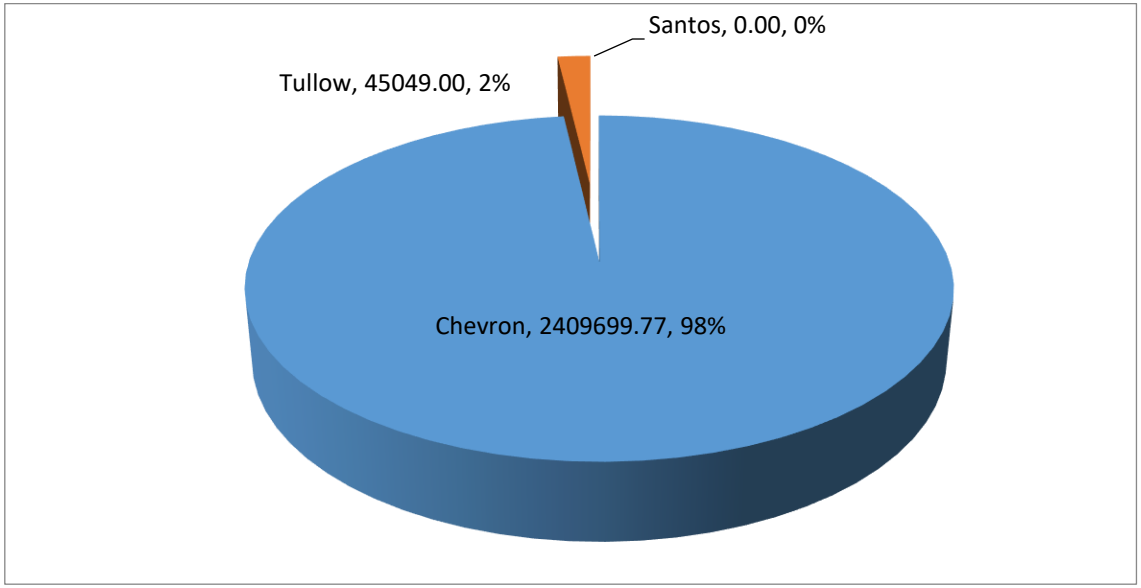


Table 17: Field wise Condensate Production in BAPEX in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	bbl/Year	bbl/Month	bbl /Day
1.	Begumganj	3	1	1	0	839.97	70.00	2.30
2.	Shahbazpur	5	4	3	1	3333.80	277.82	9.13
3.	Semutang	6	1	1	0	0.00	0.00	0.00
4.	Fenchuganj	5	2	2	0	3043.00	253.58	8.34
5.	Salda Nadi	4	3	3	0	579.86	48.32	1.59
6.	Srikail	4	4	4	0	41820.50	3485.04	114.58
7.	Sundalpur	2	1	1	0	64.85	5.40	0.18
8.	Rupgonj	1	0	0	0	Suspended	Suspended	Suspended
9	Feni	5	5	0	5	Suspended	Suspended	Suspended
Total		35	21	15	6	49681.98	4140.17	136.12

Source: HCU Data bank

Figure 16: Field wise Condensate Production in BAPEX

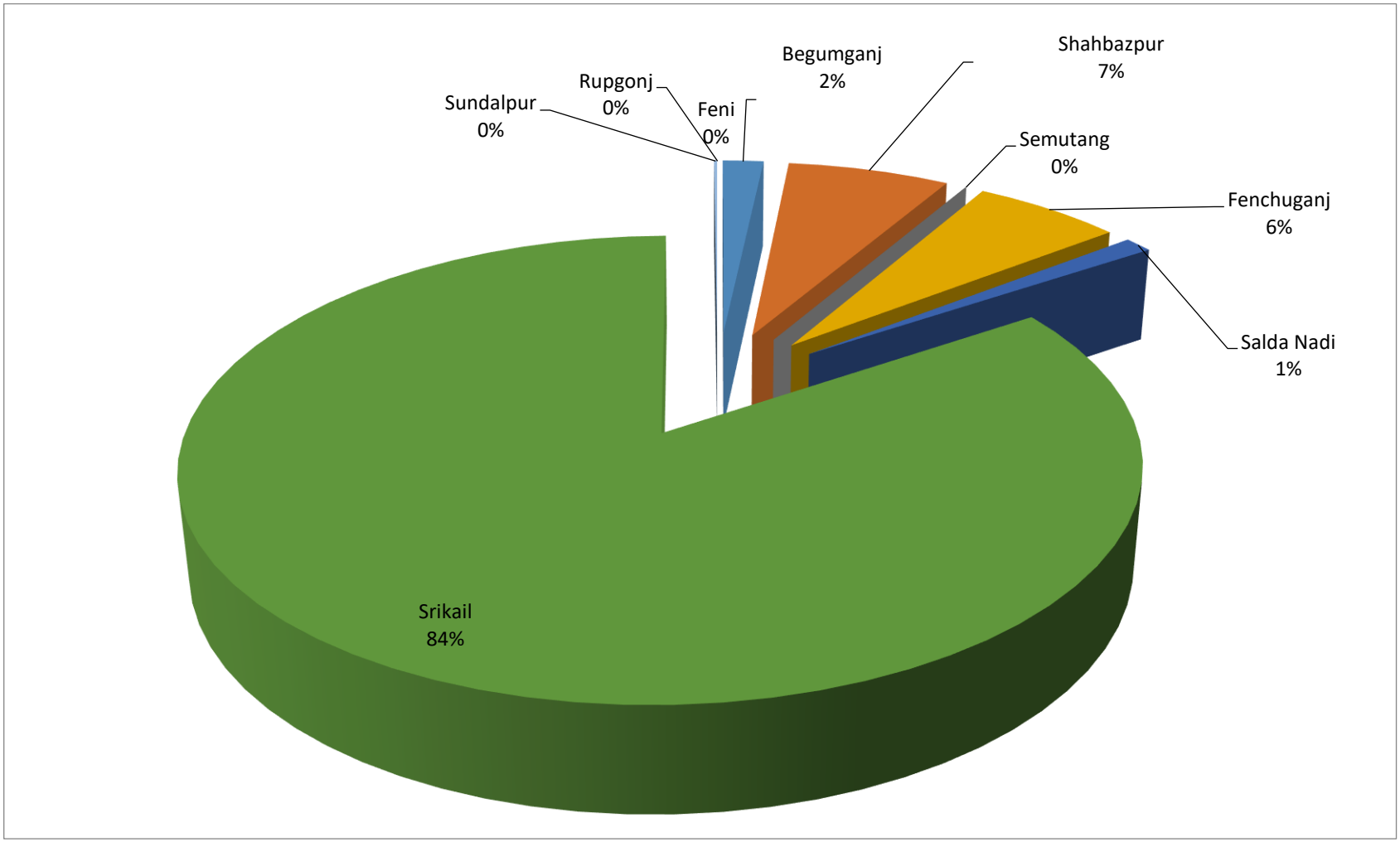


Table 18: Field wise Condensate Production in BGFCL in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	bbl/Year	bbl/Month	bbl/Day
1.	Meghna	1	1	1	0	1932.00	161.00	5.29
2.	Narshingdi	2	2	2	0	11241.00	936.75	30.80
3.	Habiganj field	11	11	7	4	2223.00	185.25	6.09
4.	Bakhrabad	9	10	6	4	13455.00	1121.25	36.86
5.	Titas Gas field	27	26	22	4	131636.00	10969.67	360.65
6.	Kamta	1	1	0	1	Suspended	Suspended	Suspended
Total		51	51	38	13	160487.00	13373.92	439.69

Source: HCU Data bank

Figure 17: Field wise Condensate Production in BGFCL

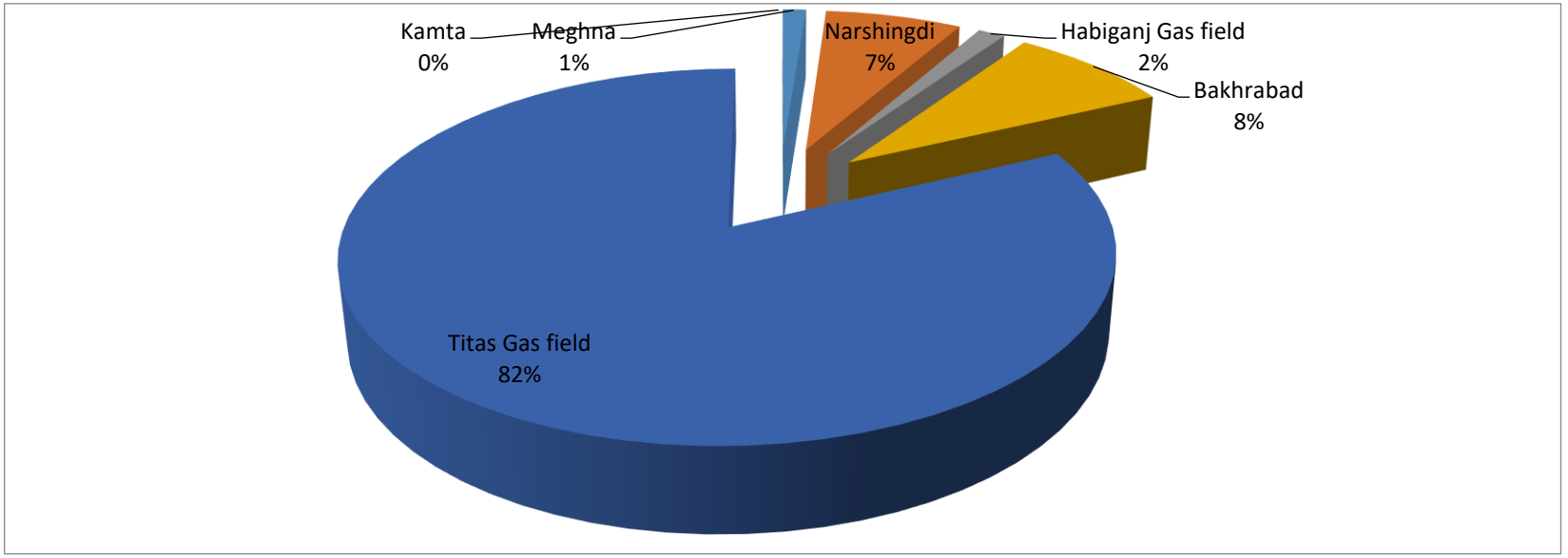


Table 19: Field wise Condensate Productions in SGFL in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	bbl/Year	bbl/Month	bbl/Day
1.	Kailas Tila	7	7	3	4	132012.88	11001.07	361.68
2.	Sylhet	8	5	3	2	12129.64	1010.80	33.23
3.	Rashidpur	11	8	5	3	14991.55	1249.30	41.07
4.	Beani Bazar	2	2	2	0	84054.25	7004.52	230.29
5.	Chatak	1	0	0	0	Suspended	Suspended	Suspended
Total		29	22	13	9	243188.32	20265.69	666.27

Source: HCU Data bank

Figure 18: Field wise Condensate Productions in SGFL

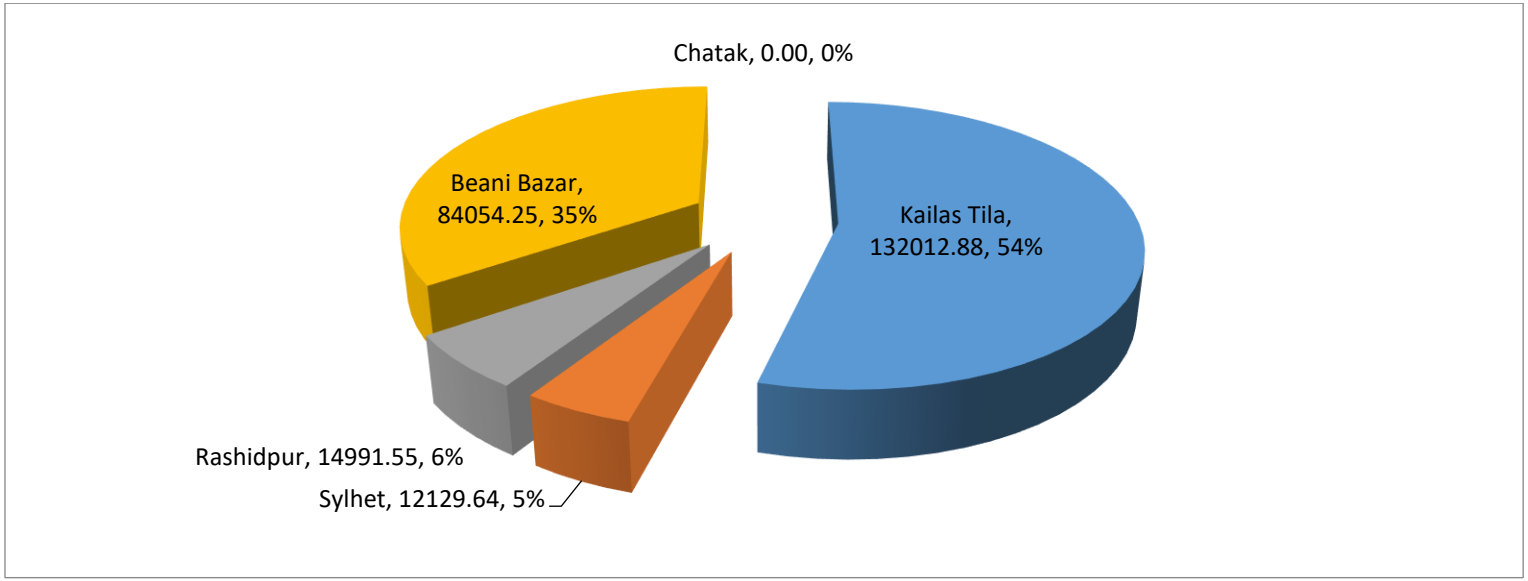


Table 20: Field wise Condensate Production by IOCs in FY 2023-24

SI No.	Name of Gas field	Total well	Productive well	Producing well	Suspended well	bbl/Year	bbl/Month	bbl/Day
1.	Bibiyana	26	26	26	0	2110953.00	175912.75	5783.43
2.	Moulavi Bazar	9	9	2	7	1059.17	88.26	2.90
3.	Jalalabad Gas field	9	9	6	3	297687.60	24807.30	815.58
4.	Bangura	7	7	5	2	45049.00	3754.08	123.42
5.	Sangu	9	0	0	0	Suspended	Suspended	Suspended
Total		60	51	39	12	2454748.77	204562.40	6725.34

Source: HCU Data bank

Figure 19: Field wise Condensate Production by IOCs

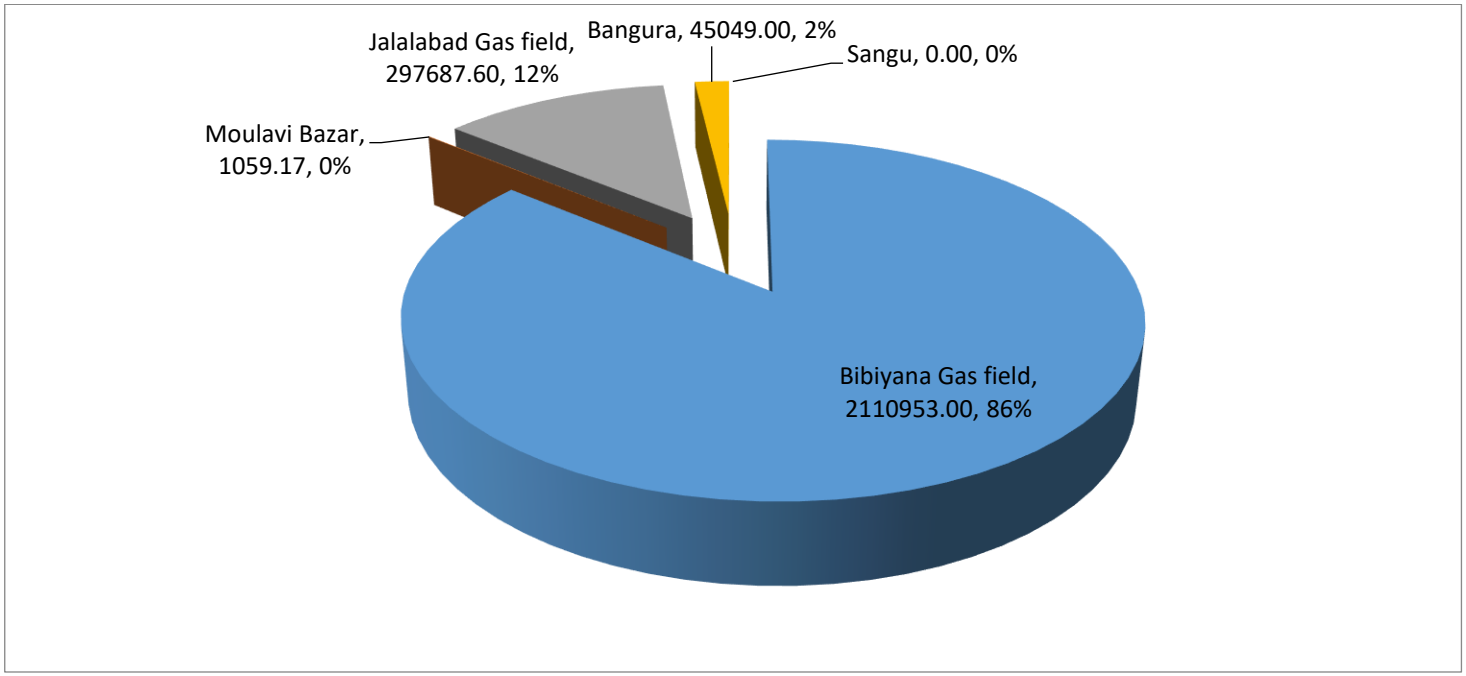
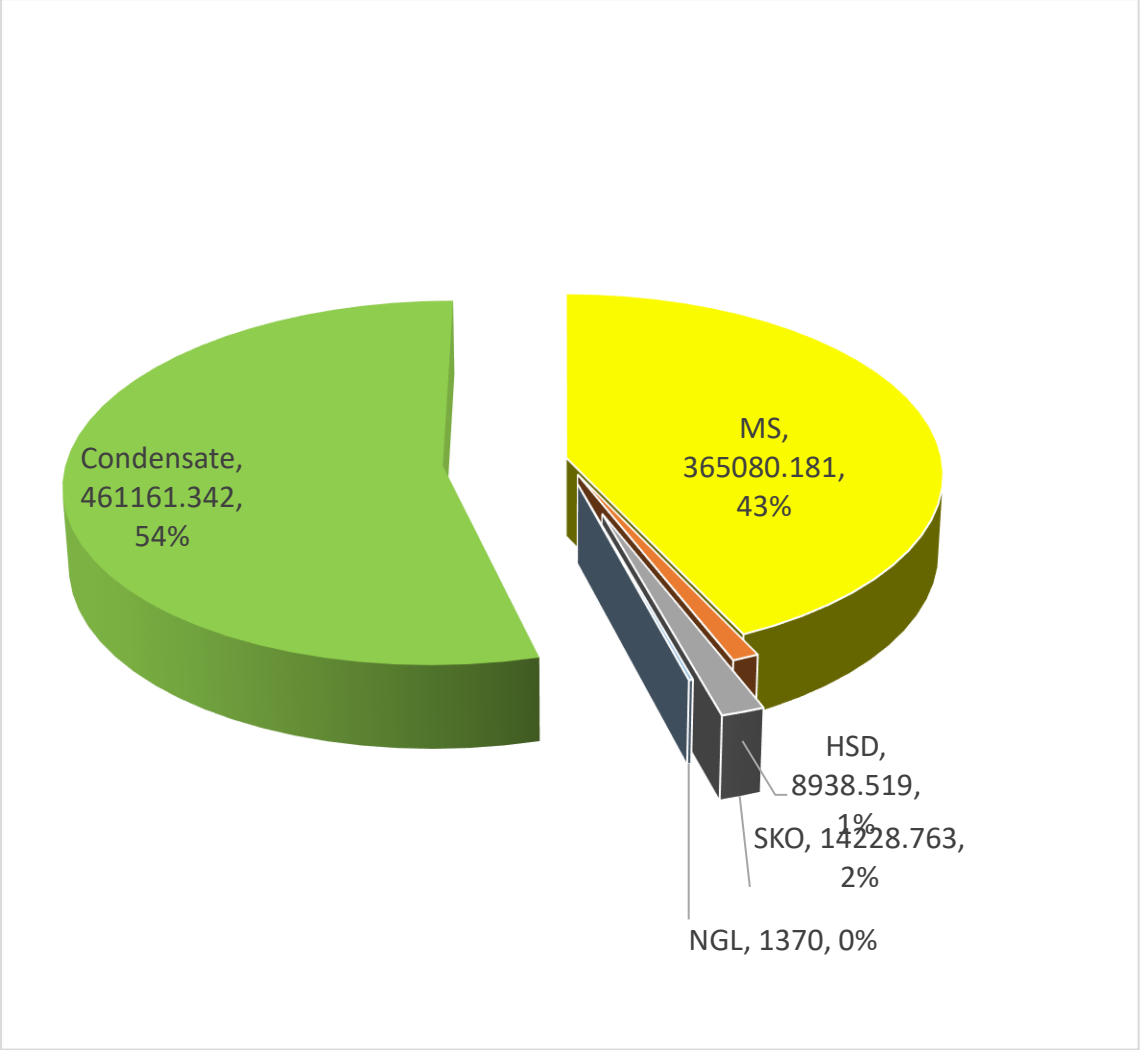


Table 21: Annual Recovery of Liquid in 1000 Liter FY 2023-24

SI No.	Name of Product	Liter
1.	MS	365080.181
2.	HSD	8938.519
3.	SKO	14228.763
4.	NGL	1370.000
5.	Condensate	461161.342
Total		850778.805

Source: MIS Report, Petrobangla

Figure 20: Annual Recovery of Liquid in 1000 liter



6.0 Gas distribution scenario in the FY 2023-2024

The following distribution companies purchase gas from the different production companies of Petrobangla & IOCs and sell to the end-users in different sectors.

- Titas Gas Transmission & Distribution Company Limited (TGTDCL)
- Bakhrabad Gas Distribution Company Limited (BGDCL)
- Jalalabad Gas Transmission and Distribution System Limited (JGTDSL)
- Pashchimanchal Gas Company Limited
- Karnaphuli Gas Distribution Company Ltd. (KGDCL)
- Sundarban Gas Company Limited (SGCL)

6.1 Gas purchase from production companies by distribution companies:

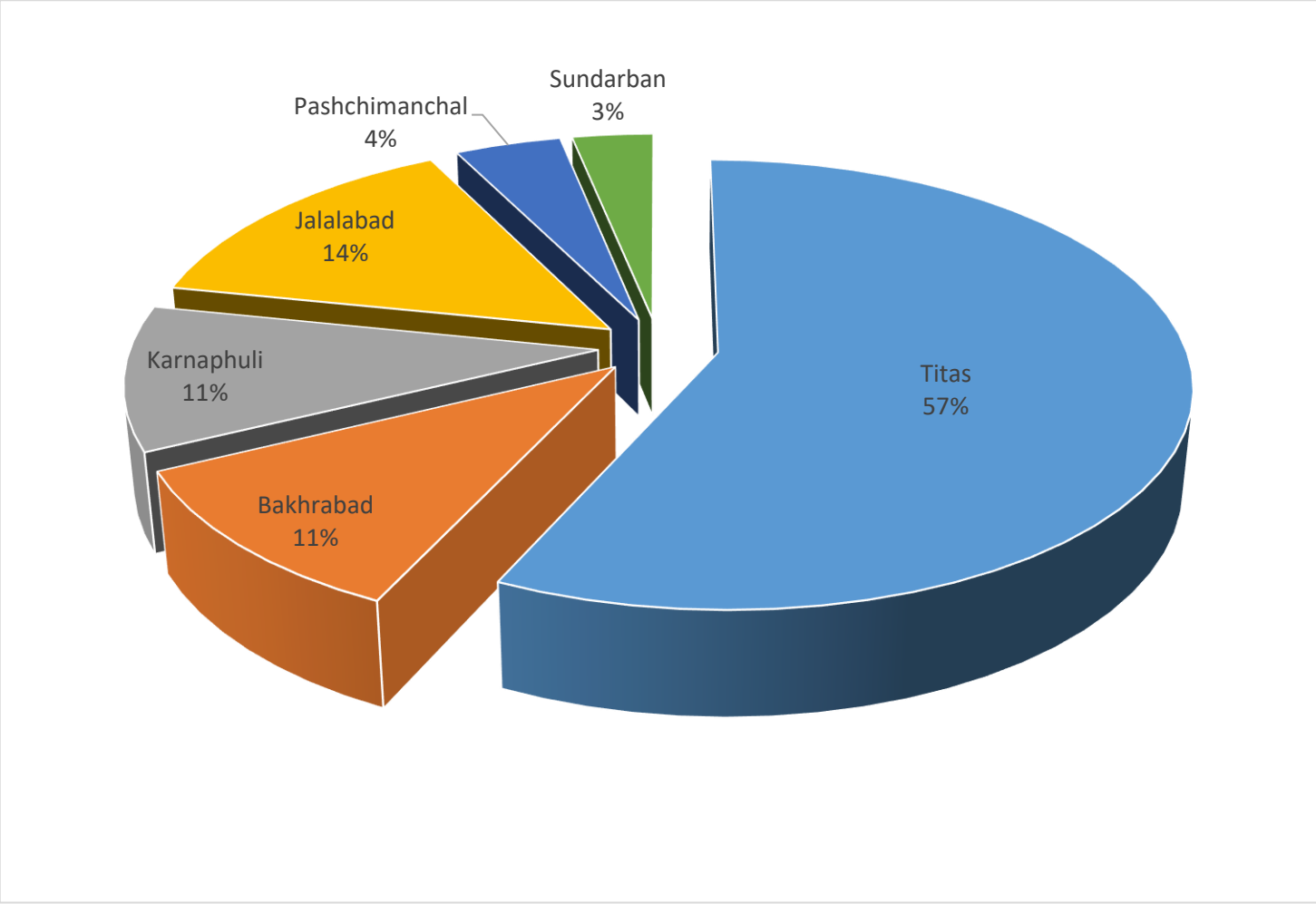
Amount of Gas purchase by different distribution companies from the production companies of Petrobangla & IOCs is shown below:

Table 22: Amount of Gas Purchase by Distribution companies

Name	Titas	Bakhrabad	Karnaphuli	Jalalabad	Pashchimanchal	Sundarban	Total
MMCM	15698.573	2982.52	2870.887	3944.79	1167.37	889.014	27553.154
BCF	554.316614	105.3127815	101.3710202	139.2905352	41.2198348	31.39108442	972.9018701

Source: Petrobangla MIS Report

Figure 21 : Gas Purchase by Distribution Companies



6.2 Gas distribution in different sectors by distribution companies:

The purchased gas is sold to end-users in variety of sectors (e.g., electricity producing companies, fertilizer companies etc.).

Table 23: Gas sale by Titas Gas Transmission & Distribution Company Limited (TGTDCL)

Consumer	Electricity		Fertilizer factory		Captive Power		Industries		Commercial	
	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)
Govt. organization	66.16	29652.90	17.91	8309.64	1.22	996.28	1.35	1091.67	0.03	29.57
Non-Govt. organization	83.55	50926.07	0.00	0.00	116.21	94535.80	133.19	108205.98	2.29	2241.78
Total	149.72	80578.97	17.91	8309.64	117.44	95532.08	134.55	109297.65	2.32	2271.35

Consumer	Brick fields		CNG		Households		Total	
	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)
Govt. organization	0.00	0.00	0.13	130.78	1.07	505.92	87.87	40716.76
Non-Govt. organization	0.00	0.00	25.42	25541.41	63.27	30054.03	423.94	311505.07
Total	0.00	0.00	25.55	25672.19	64.34	30559.95	511.82	352221.83

Source: Petrobangla MIS Report

Table 24: Gas sale by Bakhrabad Gas Distribution Company Limited (BGDCL)

Consumer	Electricity		Fertilizer factory		Captive Power		Industries		Commercial	
	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)
Govt. organization	57.69	23668.18	3.45	1561.48	0.07	64.49	0.00	0.00	0.00	0.00
Non-Govt. organization	8.32	3377.33	0.00	0.00	2.20	1871.84	2.32	1969.39	1.14	980.82
Total	66.01	27045.51	3.45	1561.48	2.27	1936.33	2.32	1969.39	1.14	980.82

Consumer	Brick fields		Households		Tea		CNG		Total	
	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)
Govt. organization	0.00	0.00	0.41	210.09	0.00	0.00	0.00	0.00	61.62	25504.24
Non-Govt. organization	0.00	0.00	12.01	6122.26	0.00	0.00	6.87	6808.76	32.85	21130.40
Total	0.00	0.00	12.42	6332.35	0.00	0.00	6.87	6808.76	94.47	46634.64

Souce: Petrobangla MIS Report

Table 25: Gas sell by Karnaphuli Gas Distribution Company Ltd. (KGDCL)

Consumer	Electricity		Fertilizer factory		Captive Power		Industries		Commercial	
	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)
Govt. organization	16.457	7101.540	5.364	2587.890	0.414	356.970	0.860	746.260	0.000	0.770
Non-Govt. organization	3.546	1391.940	14.355	11788.540	19.834	15807.850	16.130	13466.120	1.046	920.180
Total	20.003	8493.480	19.719	14376.430	20.247	16164.820	16.990	14212.380	1.046	920.950

Consumer	Brick fields		Households		Tea		CNG		Total	
	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)
Govt. organization	0.000	0.000	1.018	522.660	0.000	0.000	0.021	23.710	24.133	11339.800
Non-Govt. organization	0.000	0.000	13.581	7052.450	0.021	7.220	5.400	5428.540	73.912	55862.840
Total	0.000	0.000	14.599	7575.110	0.021	7.220	5.420	5452.250	98.045	67202.640

Source: Petrobangla MIS Report

Table 26: Gas sell by Jalalabad Gas Transmission and Distribution System Limited (JGTDSL)

Consumer	Electricity		Fertilizer factory		Captive Power		Industries		Commercial	
	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)
Govt. organization	45.598	18662.300	9.318	4222.100	0.000	0.000	0.000	0.000	0.000	0.000
Non-Govt. organization	49.579	20269.500	0.000	0.000	294.907	8704.400	321.983	9514.500	15.580	475.200
Total	95.177	38931.800	9.318	4222.100	294.907	8704.400	321.983	9514.500	15.580	475.200

Consumer	Brick fields		Households		Tea		CNG		Total	
	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)	Amount (Bcf)	Price (million taka)
Govt. organization	0.000	0.000	0.804	409.600	0.000	0.000	0.000	0.000	55.720	23294.000
Non-Govt. organization	0.000	0.000	4.623	2356.300	1.154	389.900	4.931	4887.600	82.619	46597.400
Total	0.000	0.000	5.426	2765.900	1.154	389.900	4.931	4887.600	138.338	69891.400

Source: Petrobangla MIS Report

Table 27: Gas sell by Pashchimanchal Gas Company Limited

Consumer	Electricity		Captive Power		Industries		Commercial		CNG		Households		Total	
	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)
Govt. organization	11.949	4931.360	0.004	3.700	0.049	41.670	0.001	0.560	0.000	0.000	0.177	92.090	12.180	5069.380
Non-Govt. organization	19.523	7990.910	2.655	2299.480	1.866	1589.140	0.185	160.280	2.289	2270.930	3.055	1603.930	29.574	15914.670
Total	31.472	12922.270	2.659	2303.180	1.915	1630.810	0.186	160.840	2.289	2270.930	3.232	1696.020	41.754	20984.050

Source: Petrobangla MIS Report

Table 28: Gas sell by Sundarban Gas Company Limited (SGCL)

Consumer	Electricity		Captive Power		Industries		Commercial		CNG		Households		Total	
	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)	Amount (Bcf)	Price (million Tk)
Govt. organization	17.75	7312.65	0.00	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	17.75	7314.17
Non-Govt. organization	12.27	5014.70	0.57	488.16	1.05	884.62	0.00	0.86	0.00	0.00	0.17	86.27	14.06	6474.61
Total	30.02	12327.35	0.57	489.67	1.05	884.62	0.00	0.86	0.00	0.00	0.17	86.28	31.81	13788.78

Source: Petrobangla MIS Report

7.0 Gas consumption scenario in the FY 2023-24

Natural gas consumed in different sectors for the purpose of end-user usage are summarized below:

Table 29: Sector wise Gas Consumption in FY 2023-24

(1CM=35.31CF)

SI No.	Name of Specification	MMCM	Bcf	MMcfd
1.	Power	11112.948	392.398	1075.064
2.	Industry	4763.266	168.191	460.797
3.	Captive	4349.943	153.596	420.812
4.	Fertilizer	1427.112	50.391	138.058
5.	Commercial	148.345	5.238	14.351
6.	Domestic	2837.428	100.190	274.492
7.	CNG	1276.056	45.058	123.445
8.	Tea estate	33.262	1.174	3.218
Total		25948.360	916.237	2510.237

Source: MIS Report, Petrobangla

Figure 22: Sector wise Gas Consumption

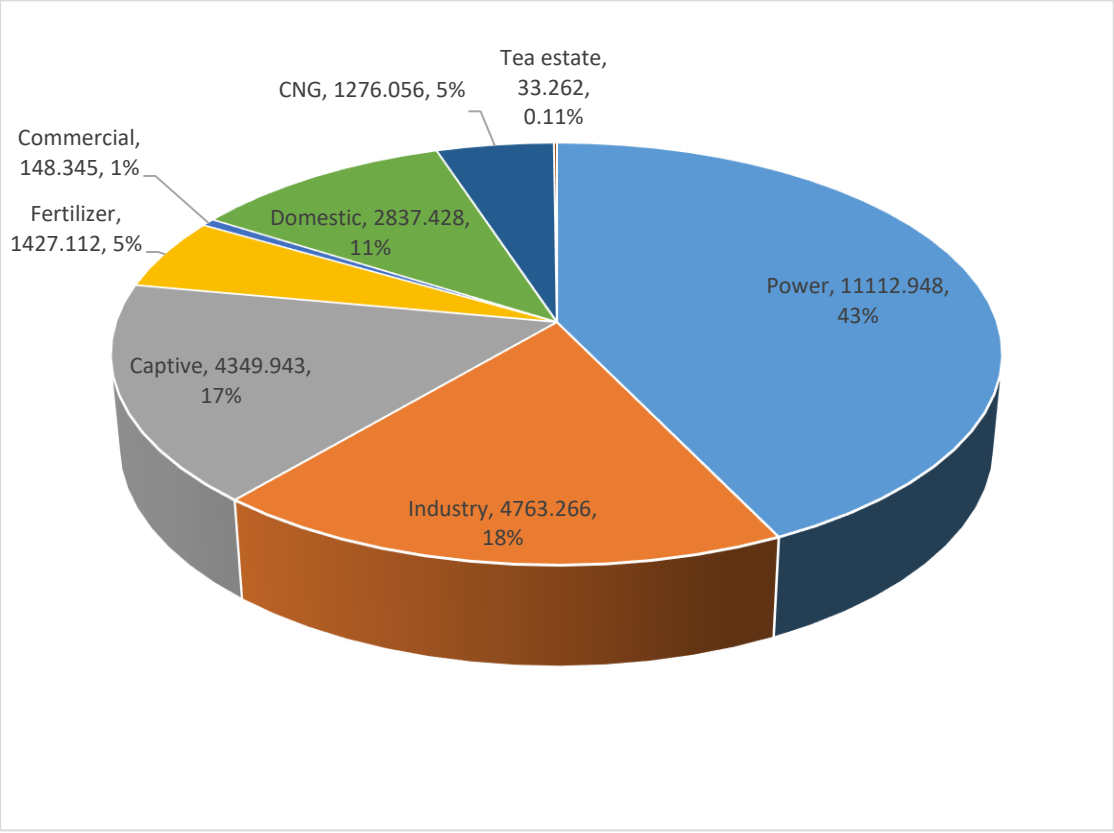
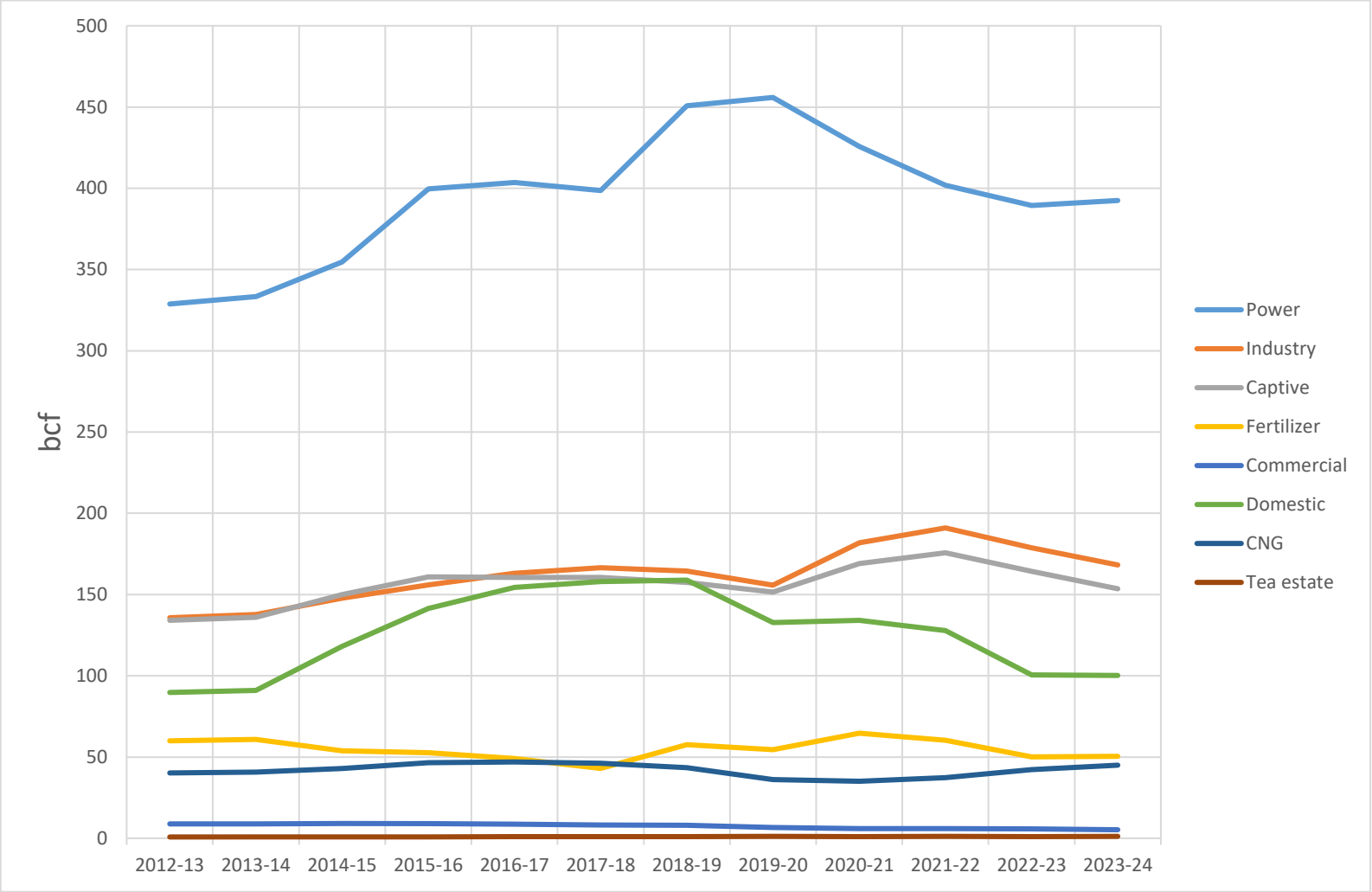


Table 30: Fiscal Year Sector wise Gas Consumption

(in Bcf)

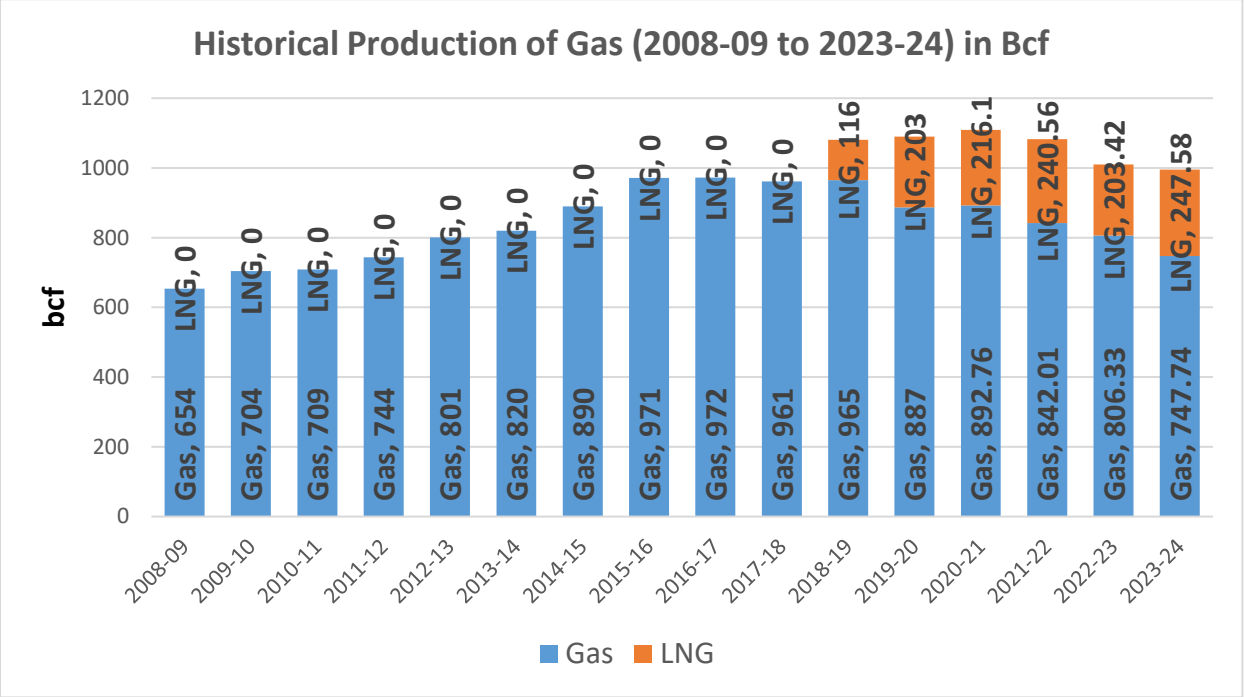
Fiscal Year	Power	Industry	Captive	Fertilizer	Commercial	Domestic	CNG	Tea estate	**Total**
2012-13	328.80	135.72	134.12	59.94	8.80	89.73	40.15	0.79	**798.05**
2013-14	333.37	137.61	135.98	60.78	8.93	90.98	40.70	0.80	**809.15**
2014-15	354.71	147.70	150.02	53.81	9.09	118.17	42.92	0.80	**877.22**
2015-16	399.59	155.98	160.83	52.62	8.98	141.44	46.46	0.91	**966.81**
2016-17	403.51	163.10	160.48	49.10	8.65	154.40	46.95	0.97	**987.16**
2017-18	398.59	166.53	160.51	42.97	8.17	157.93	46.19	0.94	**981.84**
2018-19	450.82	164.49	157.50	57.67	7.94	158.86	43.37	1.01	**1041.65**
2019-20	455.89	155.73	151.55	54.55	6.67	132.69	36.10	1.14	**994.31**
2020-21	425.70	181.75	169.05	64.65	6.02	134.17	35.07	0.98	**1017.38**
2021-22	401.93	190.99	175.685	60.365	5.975	127.830	37.301	1.102	**1001.180**
2022-23	389.37	178.73	164.27	50.10	5.825	100.58	42.32	1.063	**932.275**
2023-24	392.398	168.191	153.596	50.391	5.238	100.190	45.058	1.174	**916.237**

Figure 23: Fiscal Year Sector wise Gas Consumption



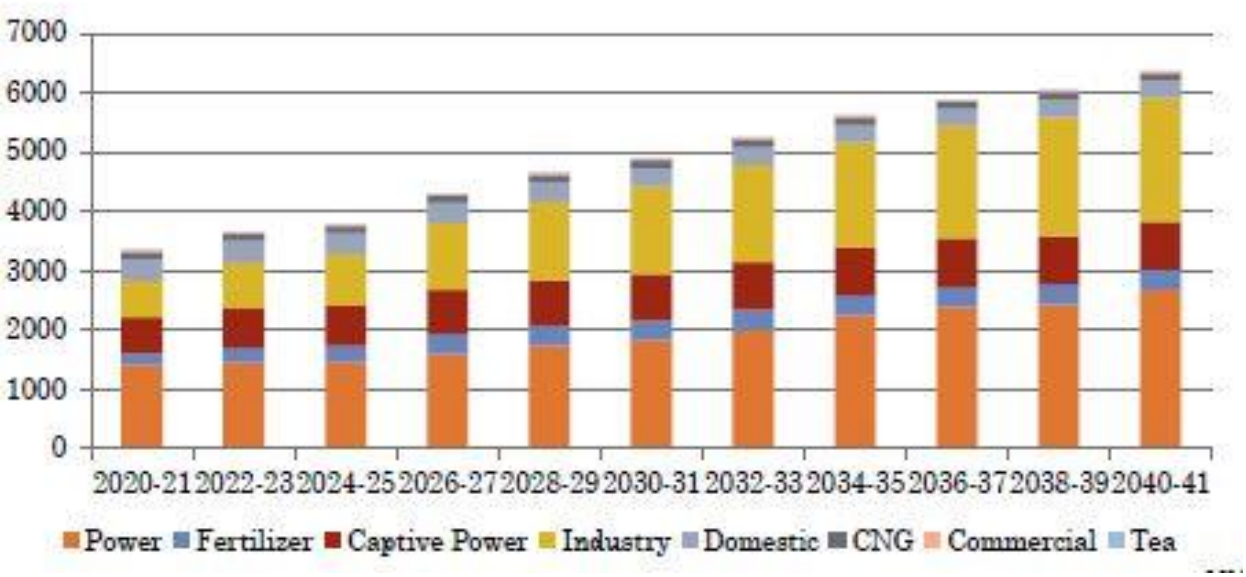
8.0 Historical Gas Production Scenario

Figure 24: Historical Production of Gas (2008-2024) in Bcf



9.0 Gas demand vs Supply projection

Figure 25: Gas Demand projection



Source: Petrobangla

Figure 26: Gas supply projection

Financial Year	Import Dependency, %
2020-21	22
2030-31	67
2040-41	76

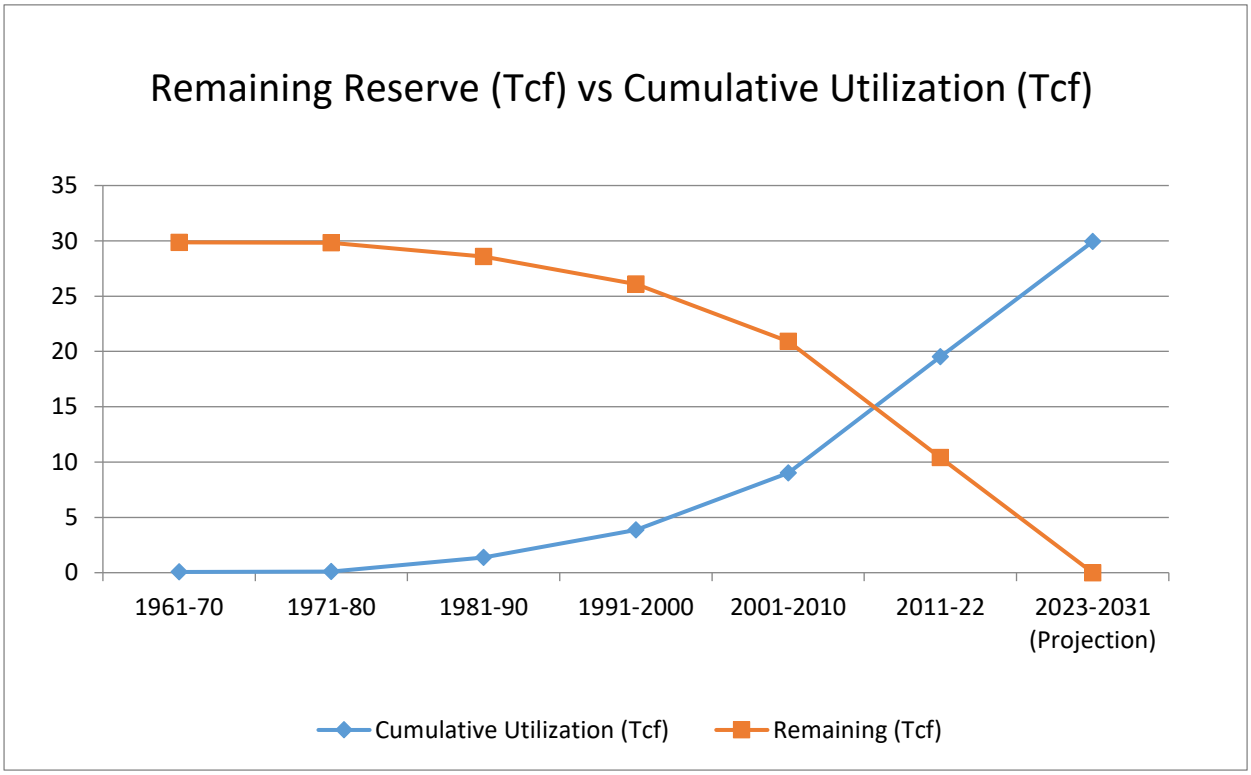
Source: Petrobangla

10. Gas remaining reserve against expenditure of Bangladesh from 1961-2031

Table 31: Gas remaining Reserve vs Cumulative Utilization

Year	Cumulative Utilization (Tcf)	Remaining (Tcf)
Recoverable(Proven +Probable)	0.000	29.93
1961-1970	0.066	29.864
1971-1980	0.097	29.833
1981-1990	1.364	28.566
1991-2000	3.853	26.077
2001-2010	9.028	20.902
2011-2024	12.072	8.83
2023-2031 (Projection)	29.93	0

Figure 27: Remaining Reserve (Tcf) vs Cumulative Utilization (Tcf)



11. Conclusion

The government has undertaken comprehensive measures to address the challenges in natural gas production and ensure a stable energy supply. Efforts have been intensified to explore and exploit domestic gas reserves, with a focus on both onshore and offshore fields. The recent discoveries and the application of advanced technology, such as 3D seismic surveys, have resulted in better reserve estimation and extended production potential in key gas fields like Bibiyana. Despite a slight decline in production compared to the previous fiscal year, national and international companies continue to contribute significantly to gas output. Chevron, BAPEX, and other operators have maintained steady production, and additional wells have been identified for future extraction. To supplement domestic production, the government has expanded LNG imports, with a total of 247.58 Bcf added to the national grid in FY 2023-24. Furthermore, strategic policies such as the Integrated Power and Energy Sector Master Plan and the revision of the PSC framework aim to attract new investments and facilitate long-term energy security. With ongoing cross-border energy trade initiatives, infrastructure development, and increased reliance on both conventional and LNG-based energy sources, Bangladesh is on a progressive path toward achieving energy sustainability. These steps collectively ensure a reliable and uninterrupted energy supply, supporting the country's economic growth and long-term development objectives.

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