



Annual Report On Gas Production, Distribution and Consumption FY 2020-2021



Kailastila Gas Field of SGFL
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HYDROCARBON UNIT

Energy and Mineral Resources Division

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P r e f a c e

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 2020 to June 2021. 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.org.bd

Date: 25 November 2021

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Director General (Additional Charge)

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 distributors is collected from MIS report of Petrobangla. In 2020-21 fiscal year total production of gas logged 892.759 Bcf and daily average production was 2445.92 MMcfd. During the year well wise maximum daily gas production was 1297.70 MMcfd and well wise minimum gas production was 0.81 MMcfd. During this period Total gas consumption was 1017.38 BCF and power sector was the highest consumer (425.70 BCF)

Production is little higher than previous year. In 2019-20 fiscal year total gas production was 886.93 Bcf and daily average production 2423.32 MMcfd. In 2020-21 increase of annual gas production was 5.83 Bcf and daily gas production was 22.60 MMcfd. Total producing gas field was 20. Gas production is largely depended on Bibiyana, Titas, Jalalabad and Habiganj gas fields. This four gas fields provided 84 percent (2073.37 MMcfd out of total daily gas production is 2445.92 MMcfd)

During the year 112 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 112 wells were flowing. During this year National Companies produced 307.27 Bcf gas from 70 wells which equals to 841.83 MMcfd. Minimum gas production was recorded from Semutang gas field (0.81 MMcfd).

Chevron and Tullow Oil these two international companies remained active during the period. IOCs production logged 585.49 Bcf which equals to 1604.08 MMcfd.

Report on annual gas production of this year 2020-21 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 2021) of Petrobangla.

In the current year four gas fields, Bibiyana, Titas, Jalalabad and Habiganj gas fields produced 756.9 Bcf gas and average gas production was 2073.7 MMcfd. Remaining 135.86 Bcf gas is produced by 16 gas fields.

At present, a total capacity of 1000 mmcfd LNG is added to the national grid. In 2020-21 fiscal year total 216.10 BCF LNG was imported.

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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. However, after end of World War II, 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 from former USSR (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.

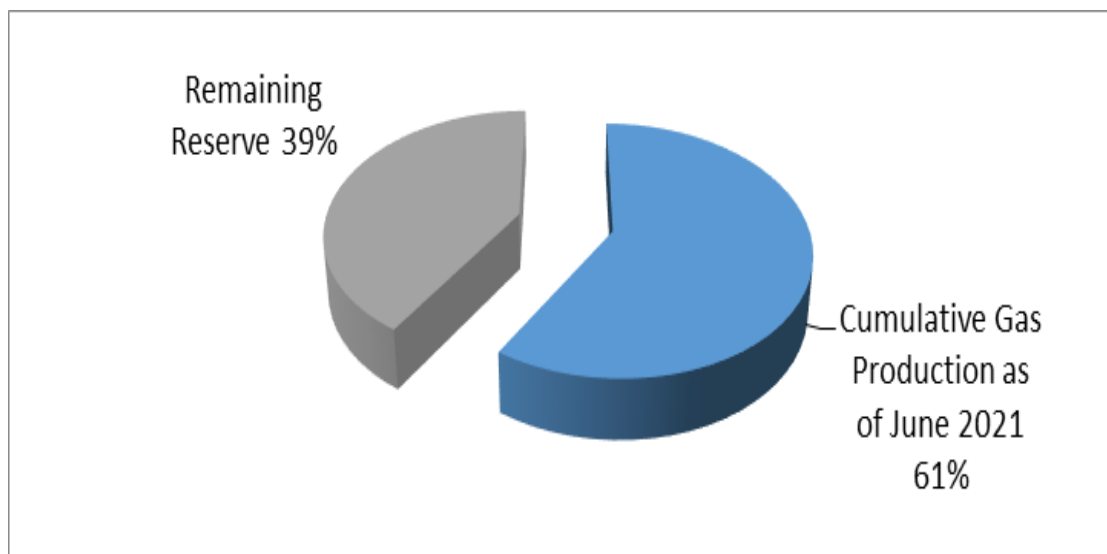
2.0 Gas Reserve and LNG

2.1 Gas Reserve and Production up to June 2021

Table 1: Reserve and Production up to June 2021 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 2021	18,678.53 Bcf	18.68 Tcf
Remaining Reserve	11,247.57 Bcf	11.25 Tcf

Figure 1 : Gas already Consumed & the Remainder



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 1000 mmcf/d LNG is added to the national grid. Since August 2018, total 318.77 Bcf LNG is added to the national grid.

- Agreement with Excelebrate Energy, Singapore has been signed for setting up FSRU. Already, floating LNG terminal of capacity daily 500 mmcf re-gasified LNG has been installed in Maheshkhali in Cox's Bazar district. Since August 2018, total 102.86 Bcf LNG is added to the national grid by Excelebrate Energy.
- 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. A total 100.02 Bcf LNG is added to the national grid since April 2019.

Table 2: LNG Import up to June 2021 at a glance

Total LNG Import in June 2021	24.03	Bcf	0.02	Tcf
Cumulative LNG Import from August 2018 to June 2021	534.86	Bcf	0.53	Tcf
Cumulative LNG Import from July 2020 to June 2021	216.10	Bcf	0.22	Tcf

3.0 Gas Productions: (National Gas Producing Companies)

Three national and two international companies produced 892.759Bcf gas and well wise average daily gas production was 2445.92MMcfd. During this year increase in gas production was 5.83 Bcf and daily average gas production was 22.60 MMcfd.

Out of total production national companies share was 841.83MMcfd. Total production of national companies during the year was 307.27Bcf. In the past year total production by national companies was 893.92 MMcfd. 70 wells were open for production during the year.

Out of total production IOCs share was 1604.08MMcfd. Total production of IOCs during the year was 585.49Bcf. IOCs produced this volume of gas using 42 wells. During this year maximum gas production was recorded from Bibiyana Gas field.

Table (Below) compares company wise gas production for 2020-21.

Year of Production	BAPEX (MMcfd)	BGFCL (MMcfd)	SGFL (MMcfd)	Chevron (MMcfd)	Tullow (MMcfd)	Total (MMcfd)
2020-21	97.50	647.26	97.07	1515.73	88.36	2445.92

During the year maximum condensate recovery was 6821.06 bbl/day from Bibiyana gas field. Jalalabad gas field occupied second position and daily condensate recovery was 1003.02 bbl/day. Condensate recovery from Kailas Tila gas field was 427.12 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
2020-21	68265.523	9783.723	3212	537147.746	7166.151

In 2020-21 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 307.27 Bcf, which equals to 841.83 MMcfd. National companies produced through 70 wells i.e., average well wise production was 12.03 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 35.59 Bcf gas and daily average gas production rate 97.50 MMcfd. During the year 40844bbl condensate was recovered.

3.1.1 Begumganj Gas Field:

During the year this field produced 2.18 Bcf gas and daily average gas production rate of 5.96 MMcfd. In addition to gas, from this field during the year 414.00 bbl condensate was recovered.

3.1.2 Fenchuganj Gas Field:

During the year this field produced 2.39 Bcf gas and daily average gas production rate of 6.55 MMcfd. In addition to gas, from this field during the year 1224 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 1.2 Bcf and daily average gas production rate of 3.28 MMcfd. In addition to gas, from this field during the year 160 bbl condensate was recovered.

3.1.4 Shahbazpur Gas Field:

Shahbazpur gas field is located in Shahbazpur i.e. Bhola island. Gas supply is limited within the island. During the year this field gas produced 14.824 Bcf and daily average gas production rate of 40.61 MMcfd. In addition to gas, 2141 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 0.296 Bcf and daily average gas production rate of 0.81 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 2.68 Bcf and daily average gas production rate of 7.33 MMcfd. In addition to gas, from this field during the year 62 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 12.024 Bcf and daily average gas production rate of 32.94 MMcfd. In addition to gas, from this field during the year 36843 bbl condensate was also recovered. It may be mentioned here that geologically Srikail is part of Bangura structure. Tullow 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.

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 236.25 Bcf and daily average gas production rate of 647.26 MMcfd. In term of gas reserve, Titas is the largest gas field of the country. During the year 149311.00 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 145.148 Bcf and daily average gas production rate 397.67 MMcfd. In addition to gas, 109337 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 64.761 Bcf and daily average gas production rate of 177.43 MMcfd. In addition to gas, from this field during the year 4343 bbl condensate was recovered.

3.2.3 Bakhrabad Gas Field:

During the year this field gas produced 13.864 Bcf and daily average gas production rate of 37.98 MMcfd. In addition to gas, from this field during the year 16174 bbl condensate was recovered.

3.2.4 Narshingdi:

During the year this field produced 9.774 Bcf gas and daily average gas production rate of 26.78 MMcfd. In addition to gas, from this field during the year 13394 bbl condensate was recovered.

3.2.5 Meghna Gas Field:

During the year this field gas produced 2.703 Bcf and daily average gas production rate 7.41 MMcfd. Gas production rate was quite stable. In addition to gas, from this field during the year 6063 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 35.43 Bcf and

average daily gas production rate of 97.07 MMcfd. During the year 221460.00 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 15.083 Bcf and average gas production rate of 41.32 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 155898 bbl condensate was recovered.

3.3.2 Rashidpur Gas Field:

During the year this field gas produced 16.118 Bcf and average gas production rate of 44.16 MMcfd. In addition to gas, from this field during the year 13729 bbl condensate was recovered.

3.3.3 Beani Bazar Gas Field:

During the year this field gas produced 2.86 Bcf and average gas production rate of 7.84 MMcfd. In addition to gas, from this field during the year 43960 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 1.37 Bcf and average gas production rate of 3.75 MMcfd. In addition to gas, from this field during the year 7873 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 585.49 Bcf and average daily gas production rate of 1604.08 MMcfd. In average per well gas production of IOCs wells is much higher than that of the national companies. IOCs produce 1604.08 MMcfd using 42 wells and average per well production of IOCs well is 38.19 MMcfd. During the year 2946013.00 bbl condensate was recovered by the IOCs and average daily recovery of condensate was 8071.27 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 553.24 Bcf and average daily gas production was 1515.73 MMcfd. In addition to gas, this company producer 2856706.00 bbl condensate was recovered.

4.1.1 Bibiyana Gas field:

During the year Bibiyana Gas field gas Produced 473.66 Bcf and average daily gas production rate of 1297.70 MMcfd. In addition to gas, from this field during the year 2489687 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 73.33 Bcf and average daily gas production rate of 200.90 MMcfd. In addition to gas, from this field during the year 366103 bbl condensate was also recovered.

4.1.3 Moulavi Bazar gas field:

During the year Moulavi Bazar gas field gas produced 6.25 Bcf and average daily gas production rate of 17.12 MMcfd. In addition to gas, from this field during the year 916 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 32.25 Bcf and average daily gas production rate of 88.36 MMcfd. In addition to gas, from this field during the year 89307.00 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 892.76 Bcf and average daily gas production was 2445.92 MMcfd. Sector wise gas consumption during the year 1017.38 Bcf (including LNG) and average daily gas supply rate of 2787.35 MMcfd is shown in Table 29 and Figure 22.

Table 3 : Company wise Gas Production in FY 2020-21

SI No.	Name of Company	Total well	Production well	Suspended well	Bcf	MMcfd
1.	BAPEX	35	15	20	35.59	97.50
2.	BGFCL	51	44	7	236.25	647.26
3.	SGFL	29	11	18	35.43	97.07
4.	Chevron	44	37	7	553.24	1515.73
5.	Tullow	7	5	2	32.25	88.36
6.	Santos	9	0	9	Suspended	Suspended
Total		175	112	63	892.76	2445.92

Source: HCU Data bank

Figure 2 : Company wise Gas Production

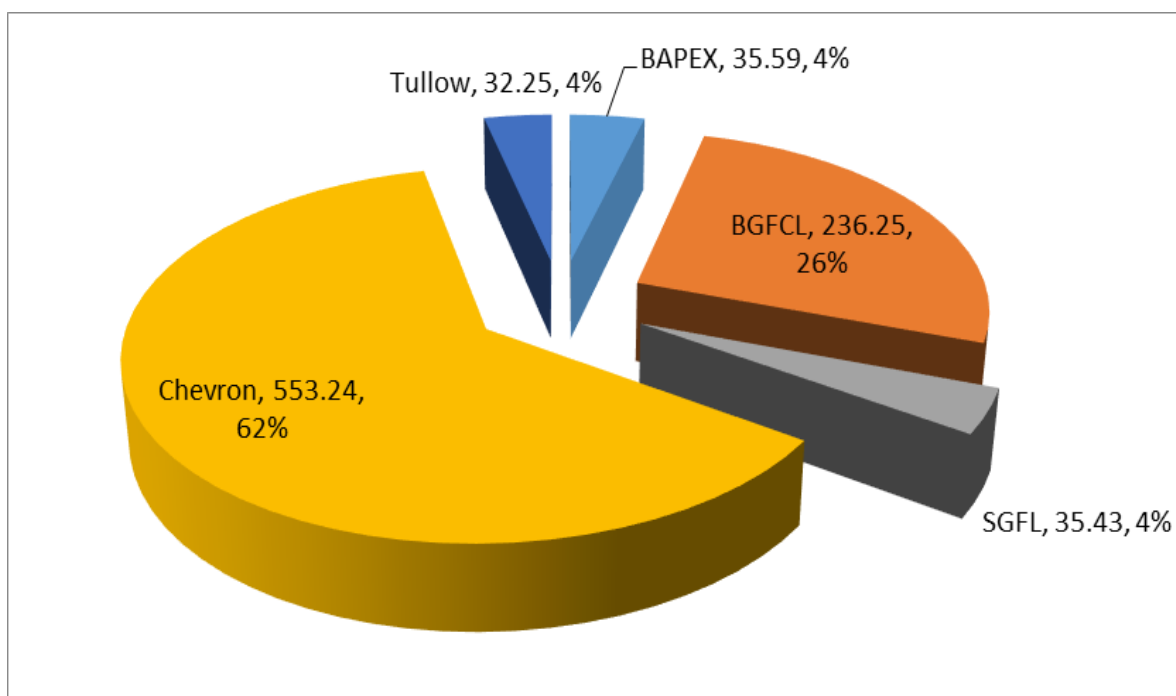


Table 4 : Field wise Gas Production in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	Bcf	MMcfd
1.	Begumganj	3	1	2	2.18	5.96
2.	Shahbazpur	5	4	1	14.82	40.61
3.	Semutang	6	2	4	0.30	0.81
4.	Fenchuganj	5	2	3	2.39	6.55
5.	Salda Nadi	4	2	2	1.20	3.28
6.	Srikail	4	3	1	12.02	32.94
7.	Sundalpur	2	1	1	2.68	7.34
8.	Rupgonj	1	0	1	Suspended	Suspended
9.	Feni	5	0	5	Suspended	Suspended
10.	Meghna	1	1	-	2.70	7.41
11.	Narshingdi	2	2	-	9.77	26.78
12.	Habiganj Gas field	11	8	3	64.76	177.43
13.	Bakhrabad	9	7	2	13.86	37.98
14.	Titas Gas field	27	26	1	145.15	397.67
15.	Kamta	1	0	1	Suspended	Suspended
16.	Bibiyana Gas field	26	26	-	473.66	1297.70
17.	Moulavi Bazar	9	4	5	6.25	17.12
18.	Jalalabad Gas field	9	7	2	73.33	200.90
19.	Kailas Tila	7	4	3	15.08	41.32
20.	Sylhet	8	1	7	1.37	3.75
21.	Rashidpur	11	5	6	16.12	44.16
22.	Beani Bazar	2	1	1	2.86	7.84
23.	Chatak	1	0	1	Suspended	Suspended
24.	Bangura	7	5	2	32.25	88.36
25.	Sangu	9	0	9	Suspended	Suspended
Total		175	112	63	892.76	2445.92

Source: HCU Data bank

Figure 3 : Field wise Gas Productions

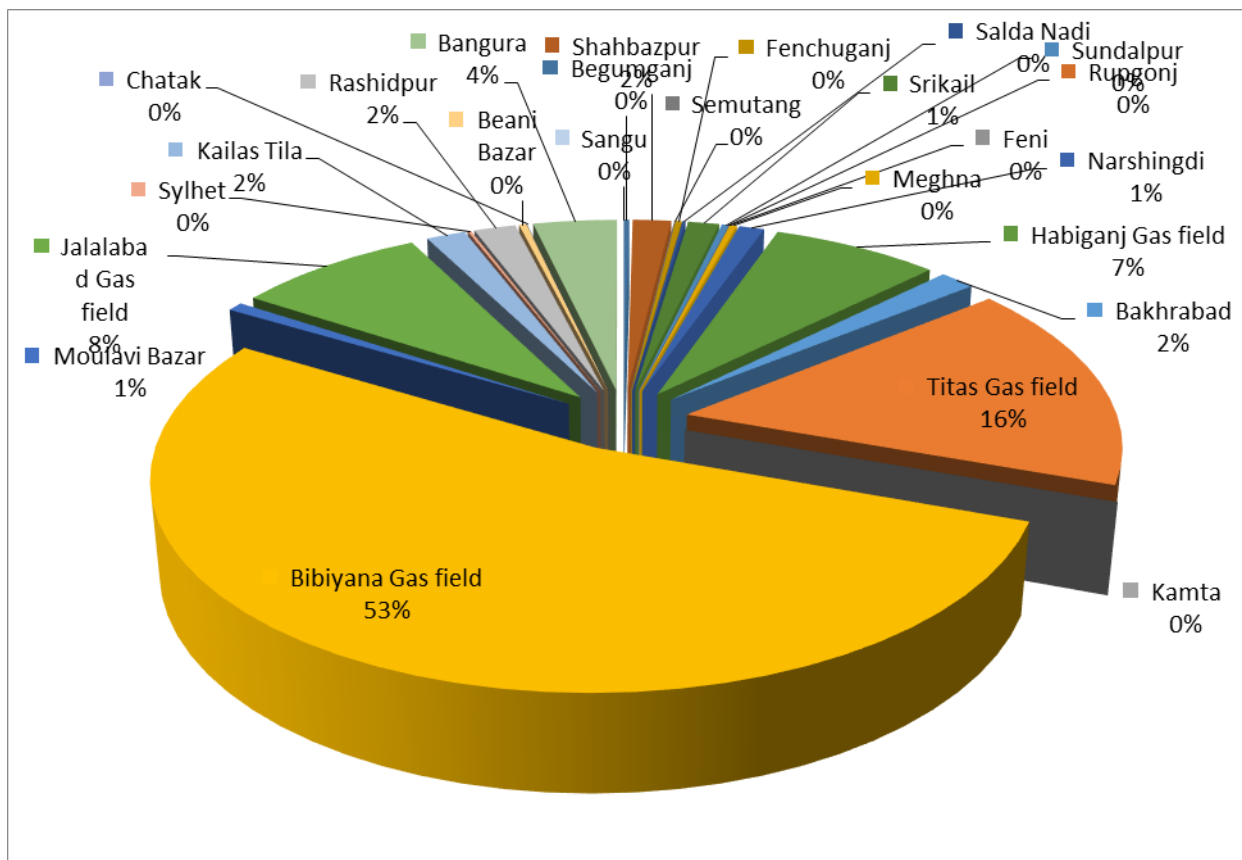


Table 5: Major four (4) Gas producing fields in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	Bcf	MMcfd
1.	Habiganj Gas field	11	8	3	64.76	177.43
2.	Titas Gas field	27	26	1	145.15	397.67
3.	Bibiyana Gas field	26	26	0	473.66	1297.70
4.	Jalalabad Gas field	9	7	2	73.33	200.90
Total		73	67	6	756.90	2073.70

Source: HCU Data bank

Figure 4 : Major four (4) Gas producing fields

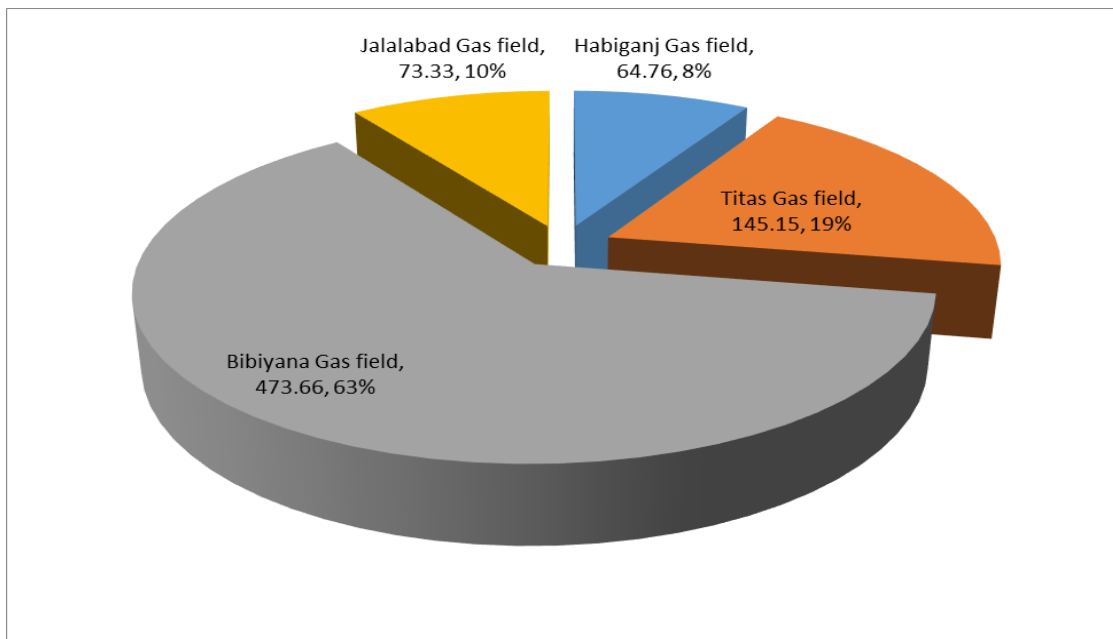


Table 6 : Comparison of Annual Gas Production by National Companies in FY 2020-21

Sl No.	Name of National Company	Total well	Production well	Suspended well	Bcf	MMcfd
1.	BAPEX	35	15	20	35.59	97.50
2.	BGFCL	51	44	7	236.25	647.26
3.	SGFL	29	11	18	35.43	97.07
Total		115	70	45	307.27	841.83

Source: HCU Data bank

Figure 5 : Comparison of Annual Gas production by National Companies

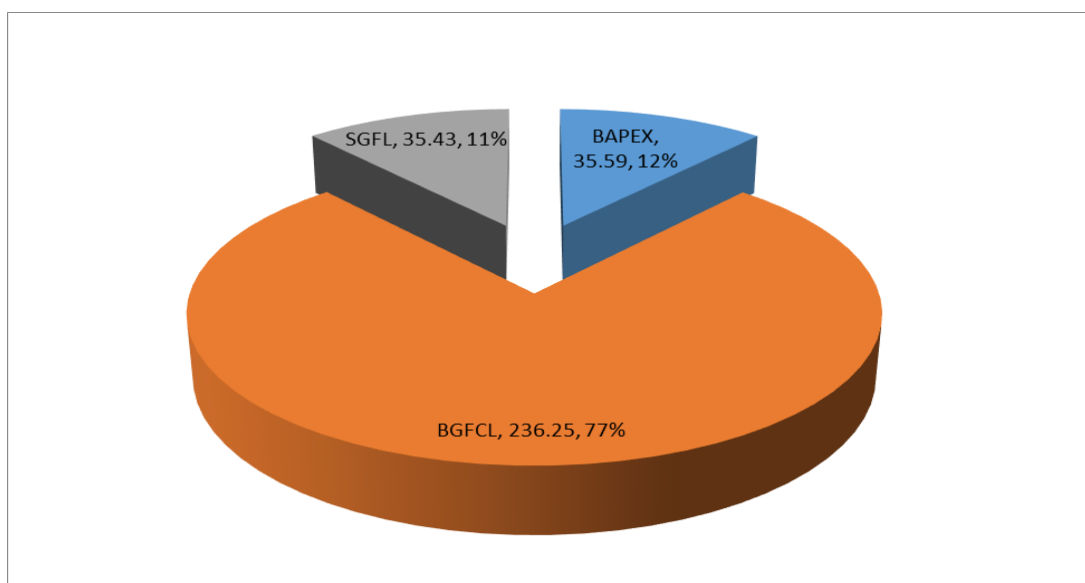


Table 7 : Field wise Annual Gas Production of Gas Fields Under National Companies, FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	Bcf	MMcfd
1.	Begumganj	3	1	2	2.18	5.96
2.	Shahbazpur	5	4	1	14.82	40.61
3.	Semutang	6	2	4	0.30	0.81
4.	Fenchuganj	5	2	3	2.39	6.55
5.	Salda Nadi	4	2	2	1.20	3.28
6.	Srikail	4	3	1	12.02	32.94
7.	Sundalpur	2	1	1	2.68	7.34
8.	Rupgonj	1	0	1	0.00	0.00
9.	Feni	5	0	5	Suspended	Suspended
10.	Meghna	1	1	-	2.70	7.41
11.	Narshingdi	2	2	-	9.77	26.78
12.	Habiganj Gas field	11	8	3	64.76	177.43
13.	Bakhrabad	9	7	2	13.86	37.98
14.	Titas Gas field	27	26	1	145.15	397.67
15.	Kamta	1	0	1	Suspended	Suspended
16.	Kailas Tila	7	4	3	15.08	41.32
17.	Sylhet	8	1	7	1.37	3.75
18.	Rashidpur	11	5	6	16.12	44.16
19.	Beani Bazar	2	1	1	2.862	7.84
20.	Chatak	1	0	1	Suspended	Suspended
Total		115	70	45	307.27	841.83

Source: HCU Data bank

Figure 6 : Field wise Annual Gas production of National Companies

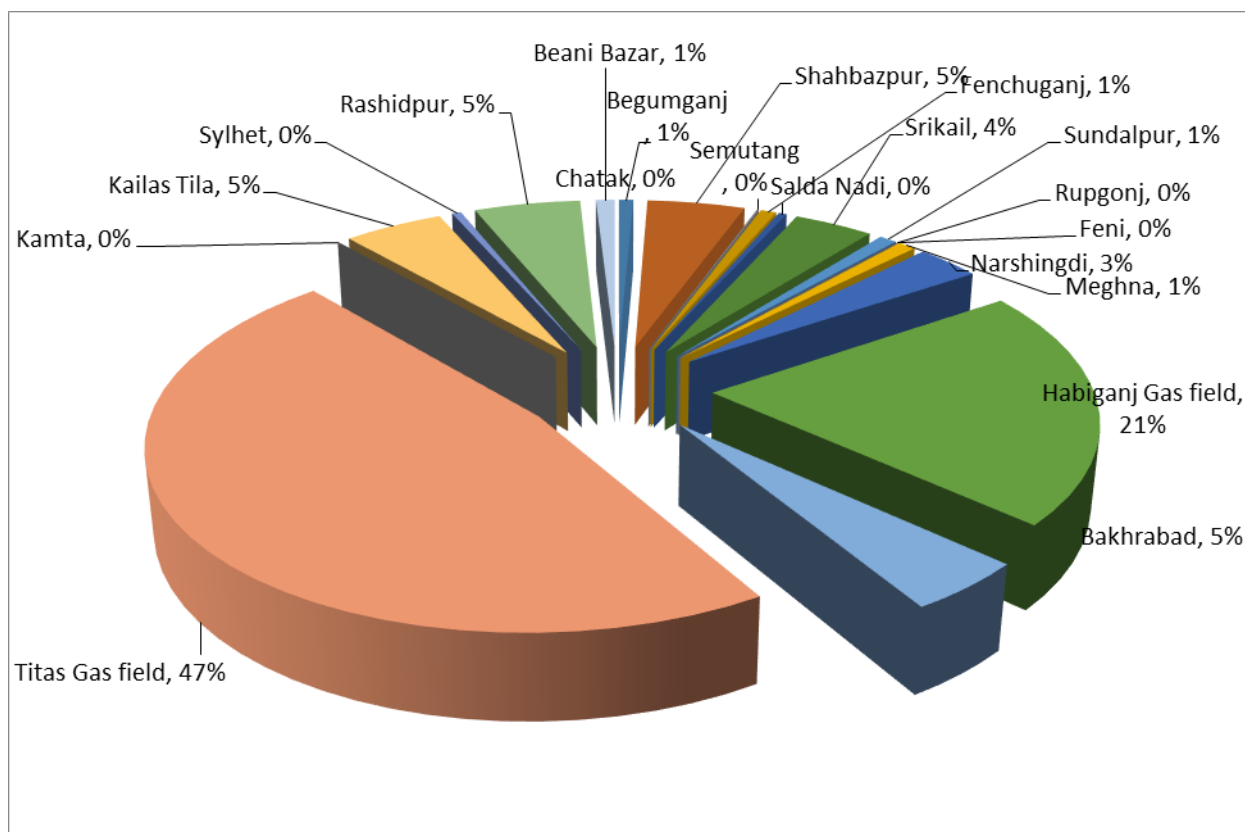


Table 8 : Field wise Gas Production in BAPEX in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	Bcf	MMcfd
1.	Begumganj	3	1	2	2.18	5.96
2.	Shahbazpur	5	4	1	14.82	40.61
3.	Semutang	6	2	4	0.30	0.81
4.	Fenchuganj	5	2	3	2.39	6.55
5.	Salda Nadi	4	2	2	1.20	3.28
6.	Srikail	4	3	1	12.02	32.94
7.	Sundalpur	2	1	1	2.68	7.34
8.	Rupgonj	1	0	1	Suspended	Suspended
9.	Feni	5	0	5	Suspended	Suspended
Total		35	15	20	35.59	97.50

Source: HCU Data bank

Figure 7 : Field wise Gas Production in BAPEX

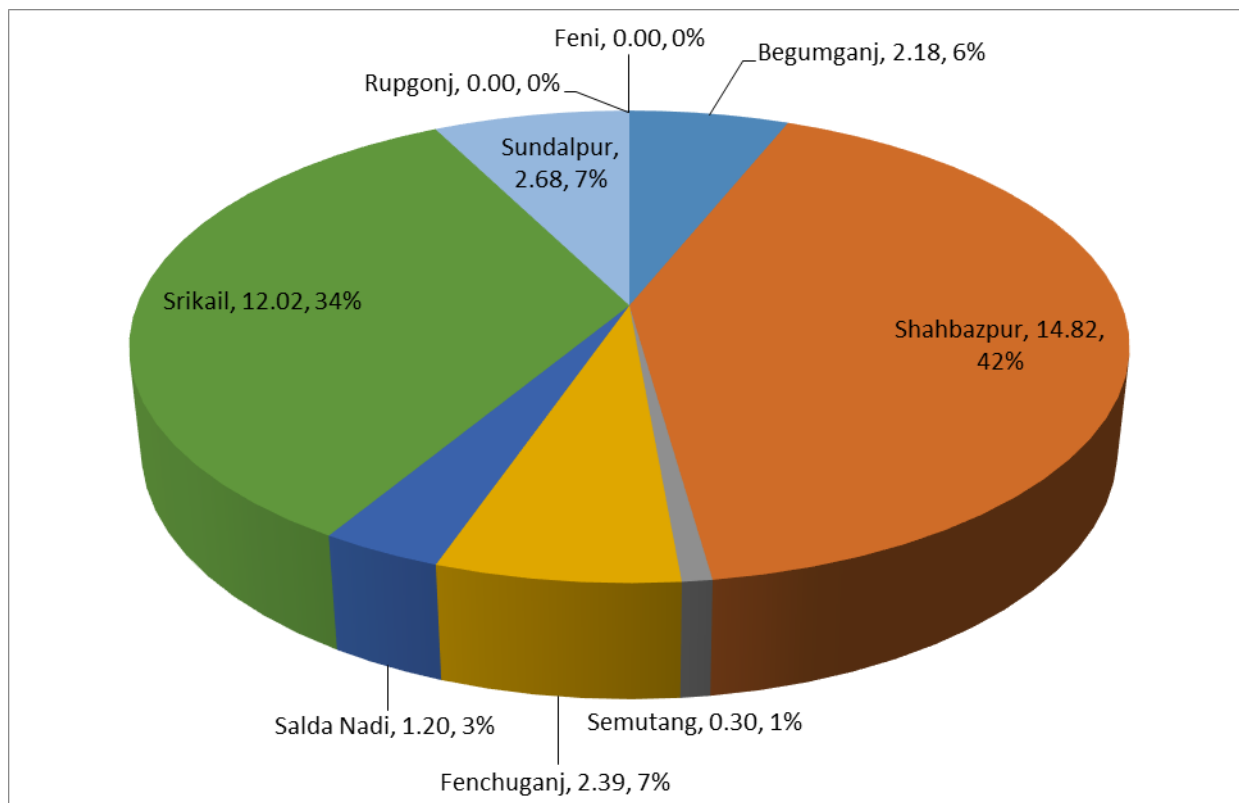


Table 9 : Field wise Gas Production in BGFCL in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	Bcf	MMcfd
1.	Meghna	1	1	-	2.70	7.41
2.	Narshingdi	2	2	-	9.77	26.78
3.	Habiganj Gas field	11	8	3	64.76	177.43
4.	Bakhrabad	9	7	2	13.86	37.98
5.	Titas Gas field	27	26	1	145.15	397.67
6.	Kamta	1	0	1	Suspended	Suspended
Total		51	44	7	236.25	647.26

Source: HCU Data bank

Figure 8 : Field wise Gas Production in BGFCL

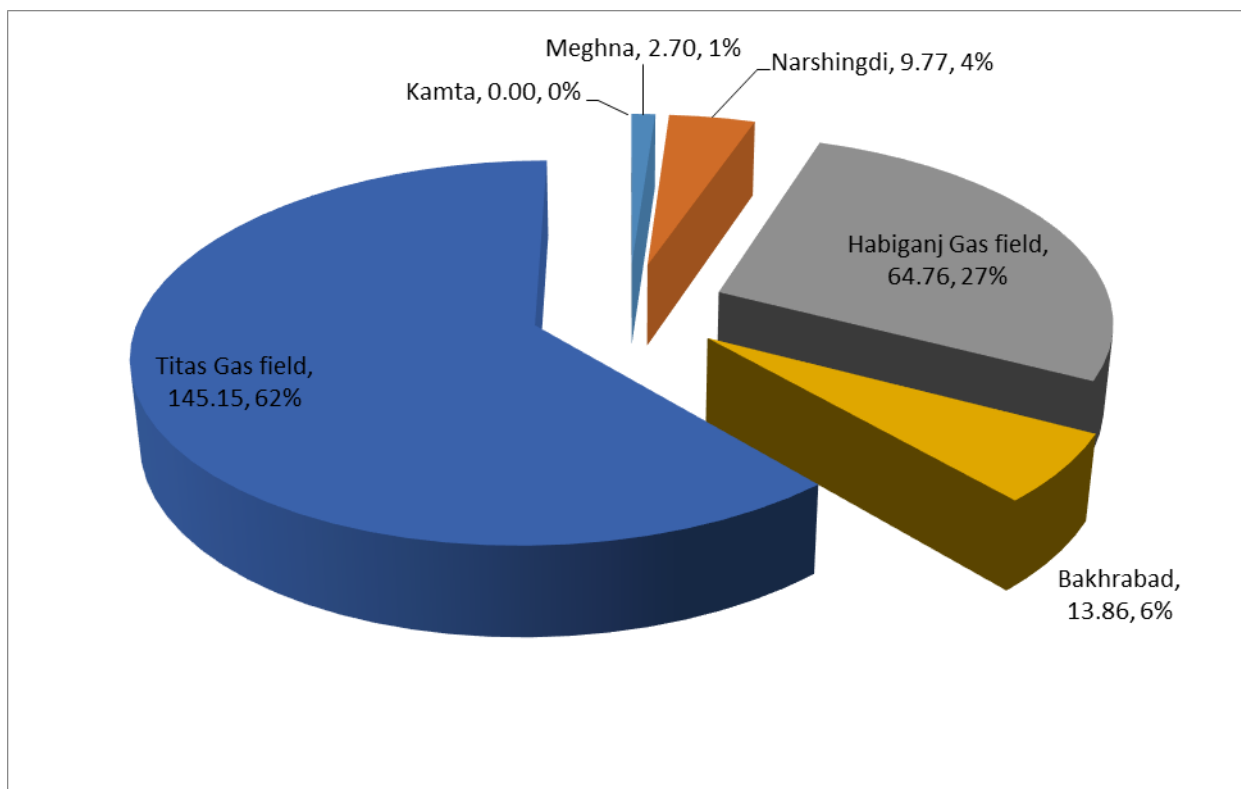


Table 10 : Field wise Gas Production in SGFL in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	Bcf	MMcfd
1.	Kailas Tila	7	4	3	15.08	41.32
2.	Sylhet	8	1	7	1.37	3.75
3.	Rashidpur	11	5	6	16.12	44.16
4.	Beani Bazar	2	1	1	2.86	7.84
5.	Chatak	1	0	1	Suspended	Suspended
Total		29	11	18	35.43	97.07

Source: HCU Data bank

Figure 9 : Field wise Gas Production in SGFL

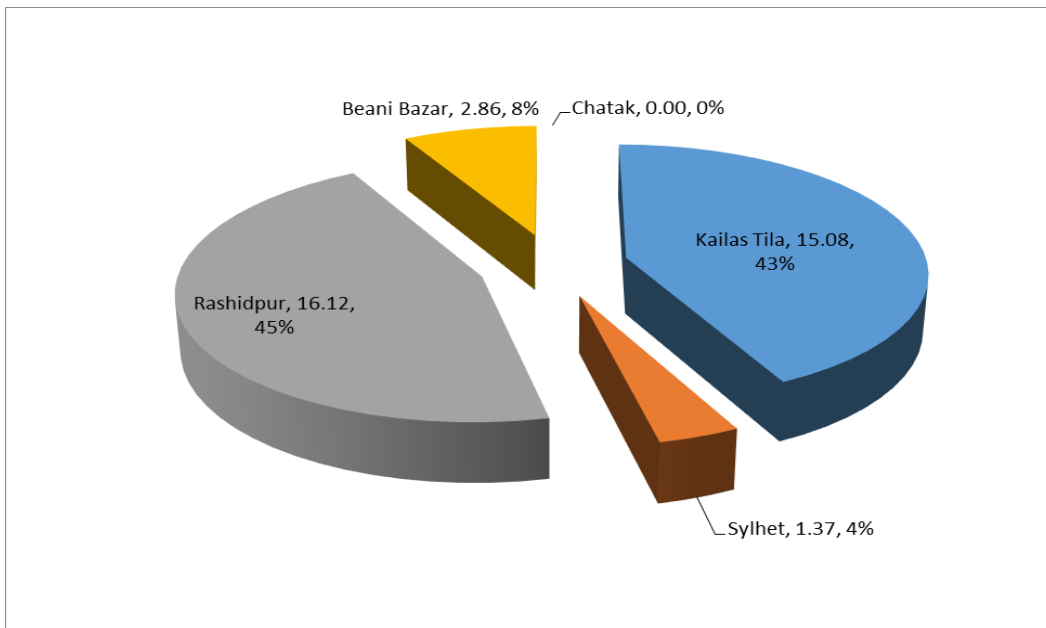


Table 11 : Comparison of Annual Gas Production by International Companies in FY 2020-21

SI No.	Name of Company	Total well	Production well	Suspended well	Bcf	MMcfd
1.	Chevron	44	37	7	553.24	1515.73
2.	Tullow	7	5	2	32.25	88.36
3.	Santos	9	0	9	Suspended	Suspended
Total	Total	60	42	18	585.49	1604.08

Source: HCU Data bank

Figure 10 : Comparison of Annual Gas Production by International Companies

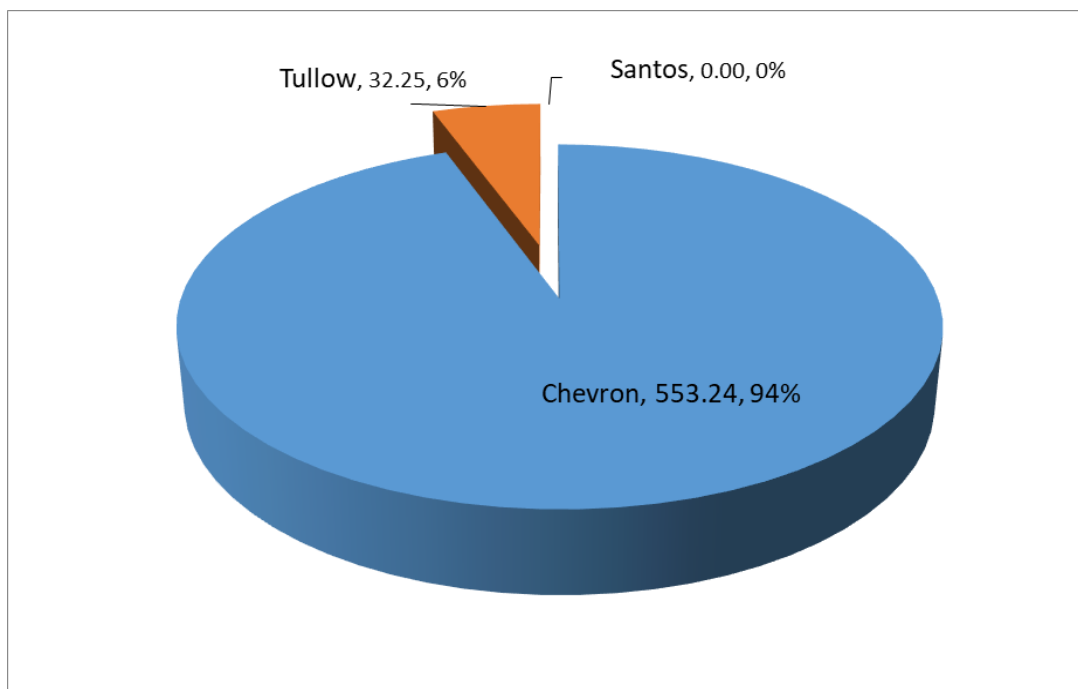


Table 12 : Field wise Gas Production by IOCs in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	Bcf	MMcfd
1.	Bibiyana Gas field	26	26	-	473.66	1297.70
2.	Moulavi Bazar	9	4	5	6.25	17.12
3.	Jalalabad Gas field	9	7	2	73.33	200.90
4.	Bangura	7	5	2	32.25	88.36
5.	Sangu	9	0	9	Suspended	Suspended
Total		60	42	18	585.49	1604.08

Source: HCU Data bank

Figure 11 : Field wise Gas Production of IOCs

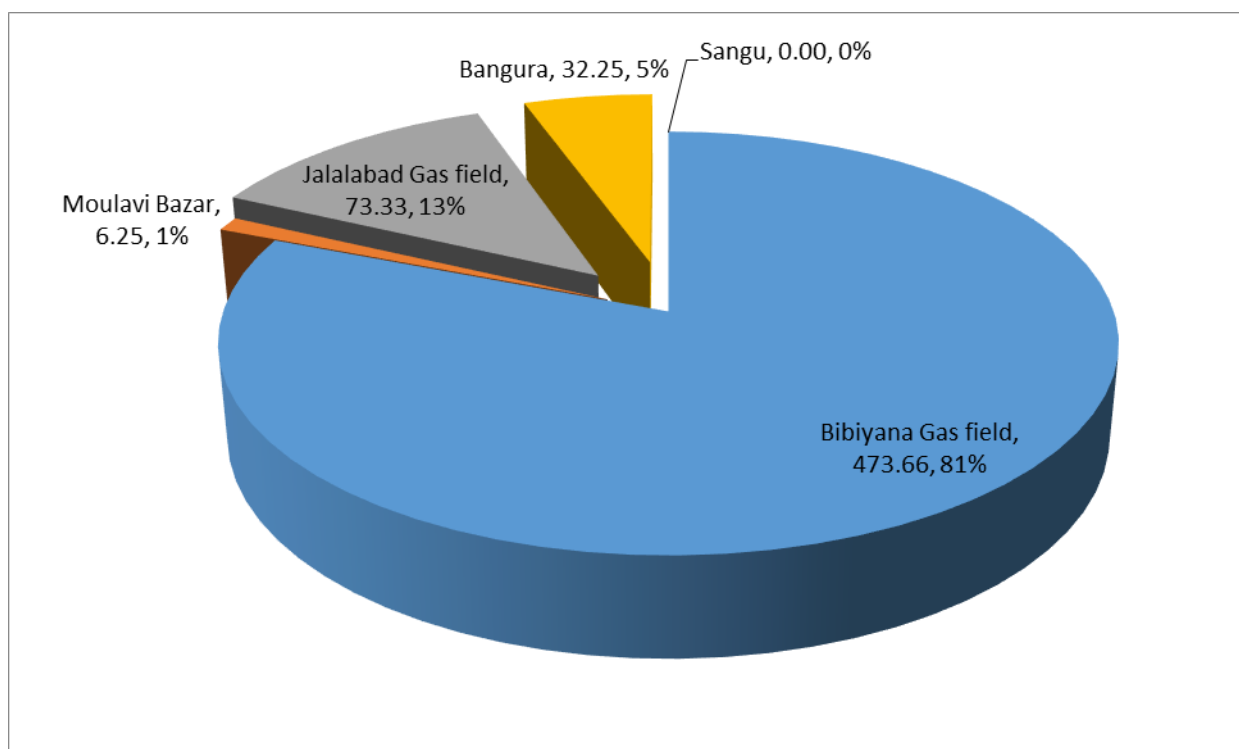


Table 13 : Field wise Gas Production by Chevron Operated Gad Fields in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	Bcf	MMcfd
1.	Bibiyana Gas field	26	26	-	473.66	1297.70
2.	Moulavi Bazar	9	4	5	6.25	17.12
3.	Jalalabad Gas field	9	7	2	73.33	200.90
Total		44	37	7	553.24	1515.73

Source: HCU Data bank

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

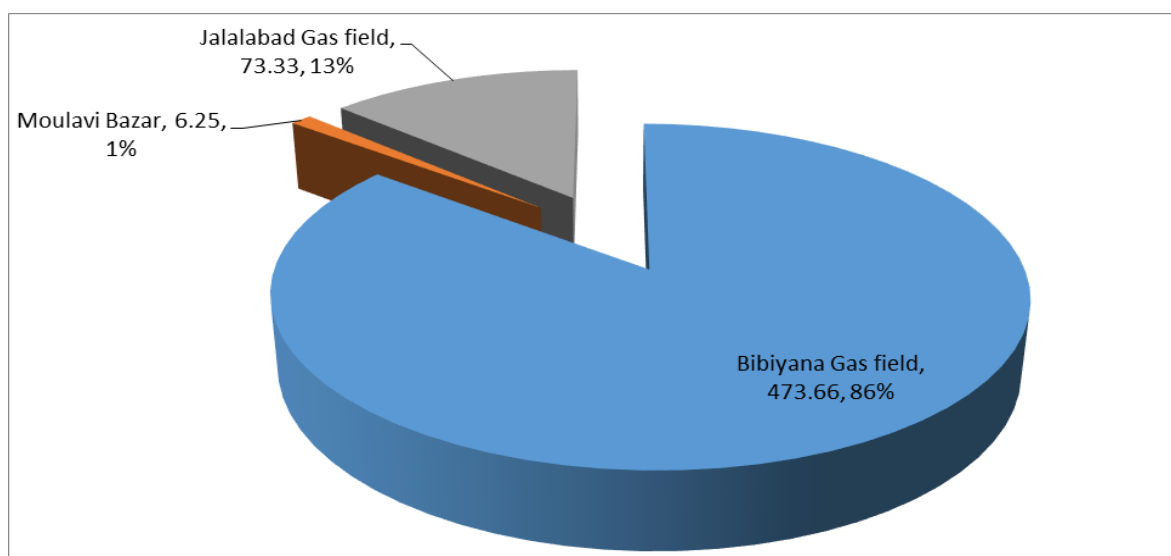


Table 14 : Field wise Condensate Recovery in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	bbl/year	bbl/month	bbl/day
1	Begumganj	3	1	2	414.00	34.50	1.13
2	Shahbazpur	5	4	1	2141.00	178.42	5.87
3	Semutang	6	2	4	0.00	0.00	0.00
4	Fenchuganj	5	2	3	1224.00	102.00	3.35
5	Salda Nadi	4	2	2	160.00	13.33	0.44
6	Srikail	4	3	1	36843.00	3070.25	100.94
7	Sundalpur	2	1	1	62.00	5.17	0.17
8	Rupgonj	1	0	1	Suspended	Suspended	Suspended
9	Feni	5	0	5	Suspended	Suspended	Suspended
10	Meghna	1	1	-	6063.00	505.25	16.61
11	Narshingdi	2	2	-	13394.00	1116.17	36.70
12	Habiganj	11	8	3	4343.00	361.92	11.90
13	Bakhrabad	9	7	2	16174.00	1347.83	44.31
14	Titas Gas	27	26	1	109337.00	9111.42	299.55
15	Kamta	1	0	1	Suspended	Suspended	Suspended
16	Bibiyana	26	26	-	2489687.00	207473.92	6821.06
17	Moulavi	9	4	5	916.00	76.33	2.51
18	Jalalabad	9	7	2	366103.00	30508.58	1003.02
19	Kailas Tila	7	4	3	155898.00	12991.50	427.12
20	Sylhet	8	1	7	7873.00	656.08	21.57
21	Rashidpur	11	5	6	13729.00	1144.08	37.61
22	Beani Bazar	2	1	1	43960.00	3663.33	120.44
23	Chatak	1	0	1	Suspended	Suspended	Suspended
24	Bangura	7	5	2	89307.00	7442.25	244.68
25	Sangu	9	0	9	Suspended	Suspended	Suspended
Total		175	112	63	3357628.00	279802.33	9198.98

Source: HCU Data bank

Figure 13 : Field wise Condensate Recovery in BBL/Day

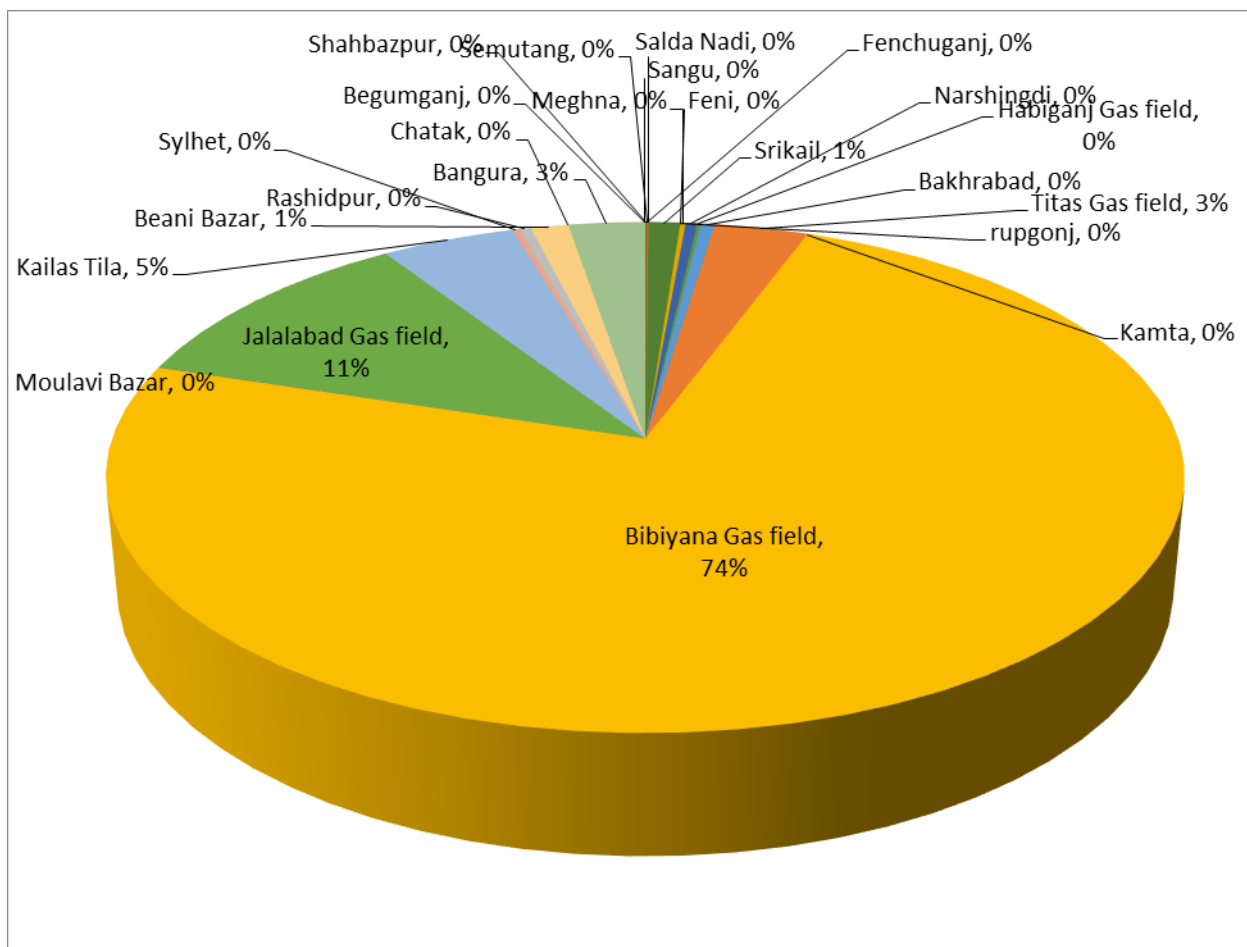


Table 15 : Comparison of Condensate Production by National Companies in FY 2020-21

SI No.	Name of National Company	Total well	Production well	Suspended well	BBL/Year	BBL/Month	BBL/Day
1.	BAPEX	35	15	20	40844.00	3403.67	111.90
2.	BGFCL	51	44	7	149311.00	12442.58	409.07
3.	SGFL	29	11	18	221460.00	18455.00	606.74
Total		115	70	45	411615.00	34301.25	1127.71

Source: HCU Data bank

Figure 14 : Comparison of Condensate production by National Companies

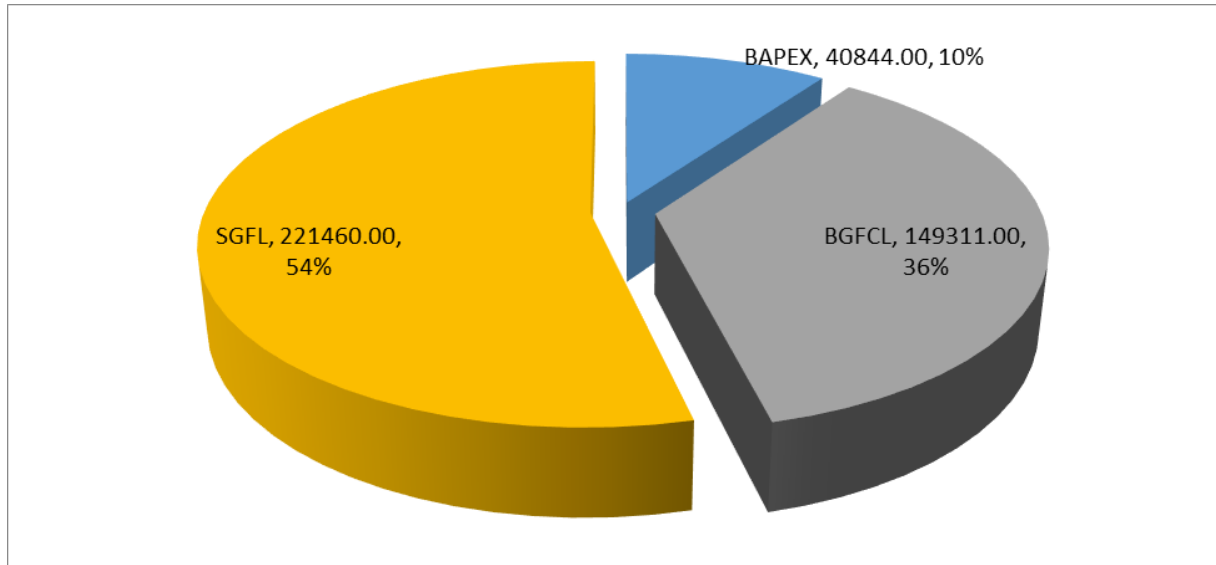


Table 16 : Comparison of Condensate Production by IOCs in FY 2020-21

SI No.	Name of Company	Total well	Production well	Suspended well	BBL/Year	BBL/Month	BBL/Day
1.	Chevron	44	37	7	2856706.00	238058.83	7826.59
2.	Tullow	7	5	2	89307.00	7442.25	244.68
3.	Santos	9	0	9	Suspended	Suspended	Suspended
Total		60	42	18	2946013.00	245501.08	8071.27

Source: HCU Data bank

Figure 15 : Comparison of Condensate production by International Companies

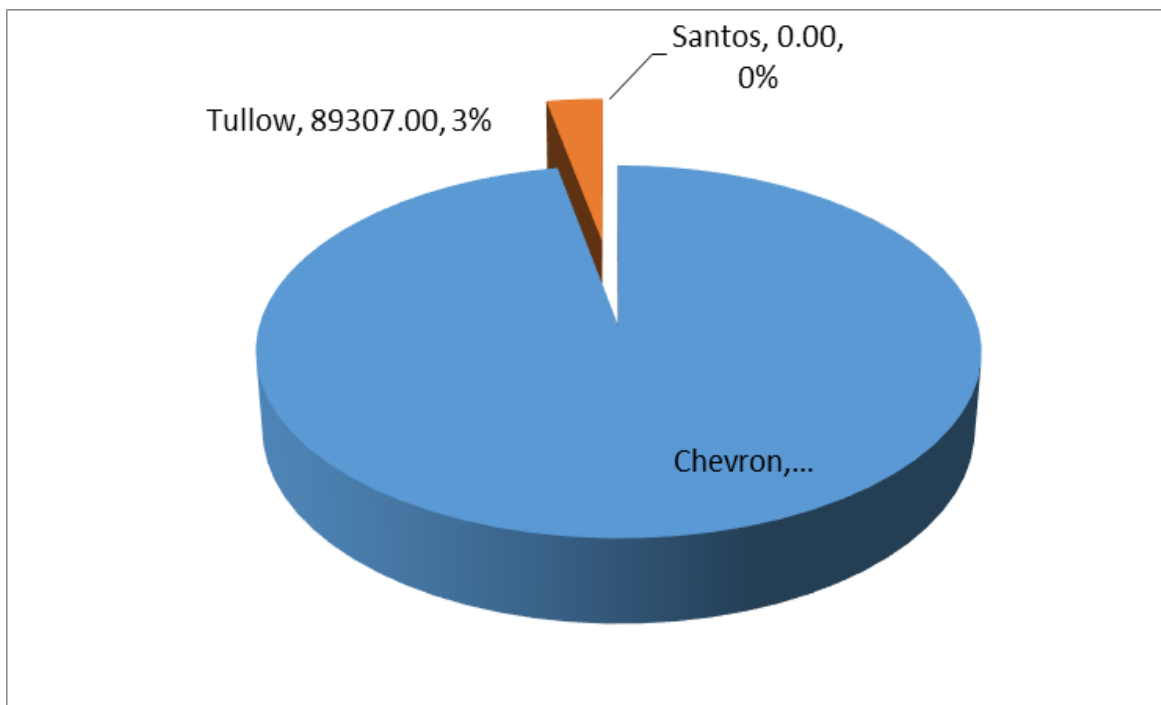


Table 17 : Field wise Condensate Production in BAPEX in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	BBL/Year	BBL/Month	BBL/Day
1.	Begumganj	3	1	2	414.00	34.50	1.13
2.	Shahbazpur	5	4	1	2141.00	178.42	5.87
3.	Semutang	6	2	4	0.00	0.00	0.00
4.	Fenchuganj	5	2	3	1224.00	102.00	3.35
5.	Salda Nadi	4	2	2	160.00	13.33	0.44
6.	Srikail	4	3	1	36843.00	3070.25	100.94
7.	Sundalpur	2	1	1	62.00	5.17	0.17
8.	Rupgonj	1	0	1	Suspended	Suspended	Suspended
9.	Feni	5	0	5	Suspended	Suspended	Suspended
Total		35	15	20	40844.00	3403.67	111.90

Source: HCU Data bank

Figure 16 : Field wise Condensate Production in BAPEX

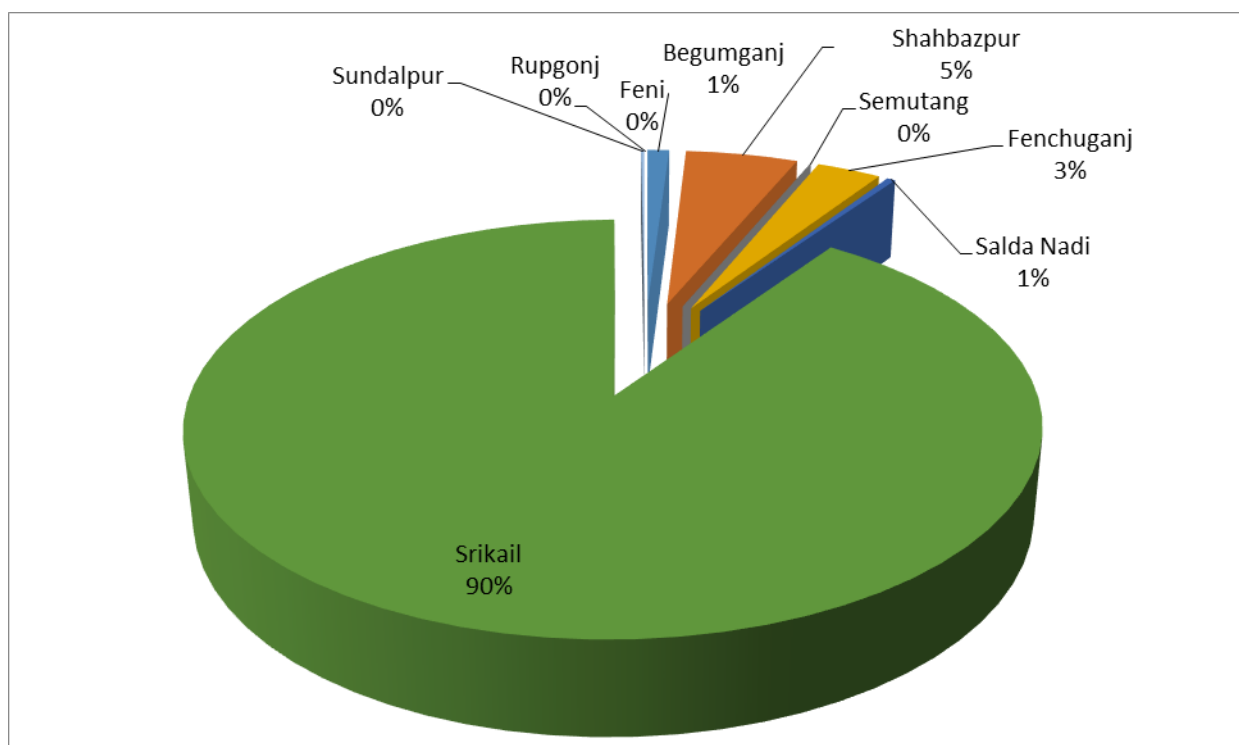


Table 18 : Field wise Condensate Production in BGFCL in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	BBL/Year	BBL/Month	BBL/Day
1.	Meghna	1	1	-	6063.00	505.25	16.61
2.	Narshingdi	2	2	-	13394.00	1116.17	36.70
3.	Habiganj field	11	8	3	4343.00	361.92	11.90
4.	Bakhrabad	9	7	2	16174.00	1347.83	44.31
5.	Titas Gas field	27	26	1	109337.00	9111.42	299.55
6.	Kamta	1	0	1	Suspended	Suspended	Suspended
Total		51	44	7	149311.00	12442.58	409.07

Source: HCU Data bank

Figure 17 : Field wise Condensate Production in BGFCL

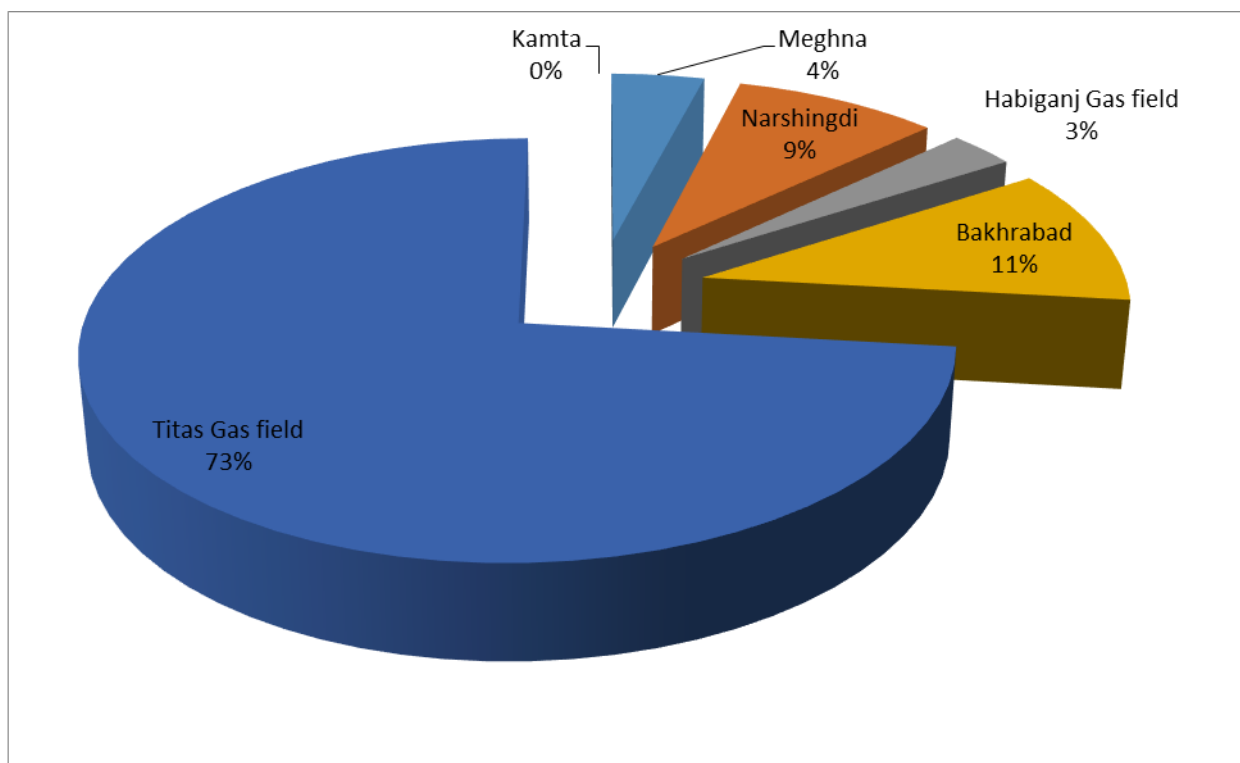


Table 19 : Field wise Condensate Productions in SGFL in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	BBL/Year	BBL/Month	BBL/Day
1.	Kailas Tila	7	4	3	155898.00	12991.50	427.12
2.	Sylhet	8	1	7	7873.00	656.08	21.57
3.	Rashidpur	11	5	6	13729.00	1144.08	37.61
4.	Beani Bazar	2	1	1	43960.00	3663.33	120.44
5.	Chatak	1	0	1	Suspended	Suspended	Suspended
Total		29	11	18	221460.00	18455.00	606.74

Source: HCU Data bank

Figure 18 : Field wise Condensate Productions in SGFL

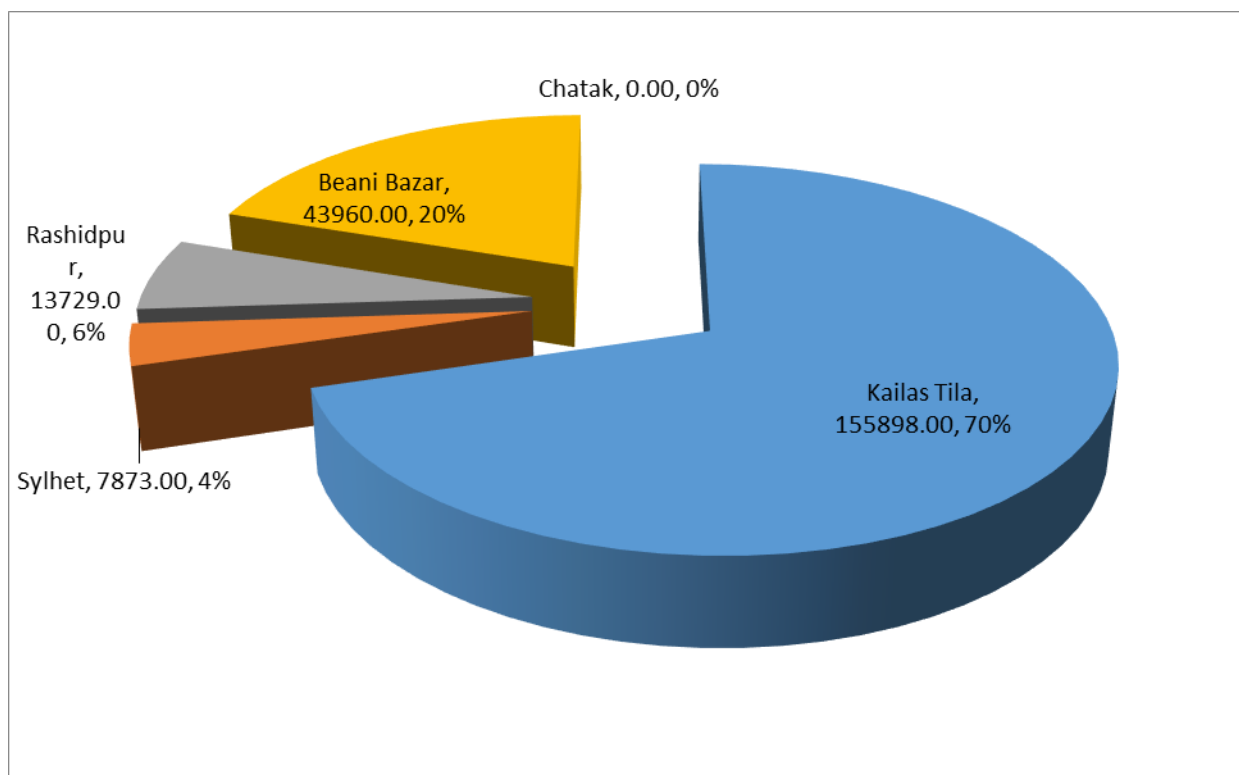


Table 20 : Field wise Condensate Production by IOCs in FY 2020-21

SI No.	Name of Gas field	Total well	Production well	Suspended well	BBL/Year	BBL/Month	BBL/Day
1.	Bibiyana	26	26	-	2489687.00	207473.92	6821.06
2.	Moulavi Bazar	9	4	5	916.00	76.33	2.51
3.	Jalalabad Gas field	9	7	2	366103.00	30508.58	1003.02
4.	Bangura	7	5	2	89307.00	7442.25	244.68
5.	Sangu	9	0	9	Suspended	Suspended	Suspended
Total		60	42	18	2946013.00	245501.08	8071.27

Source: HCU Data bank

Figure 19 : Field wise Condensate Production by IOCs

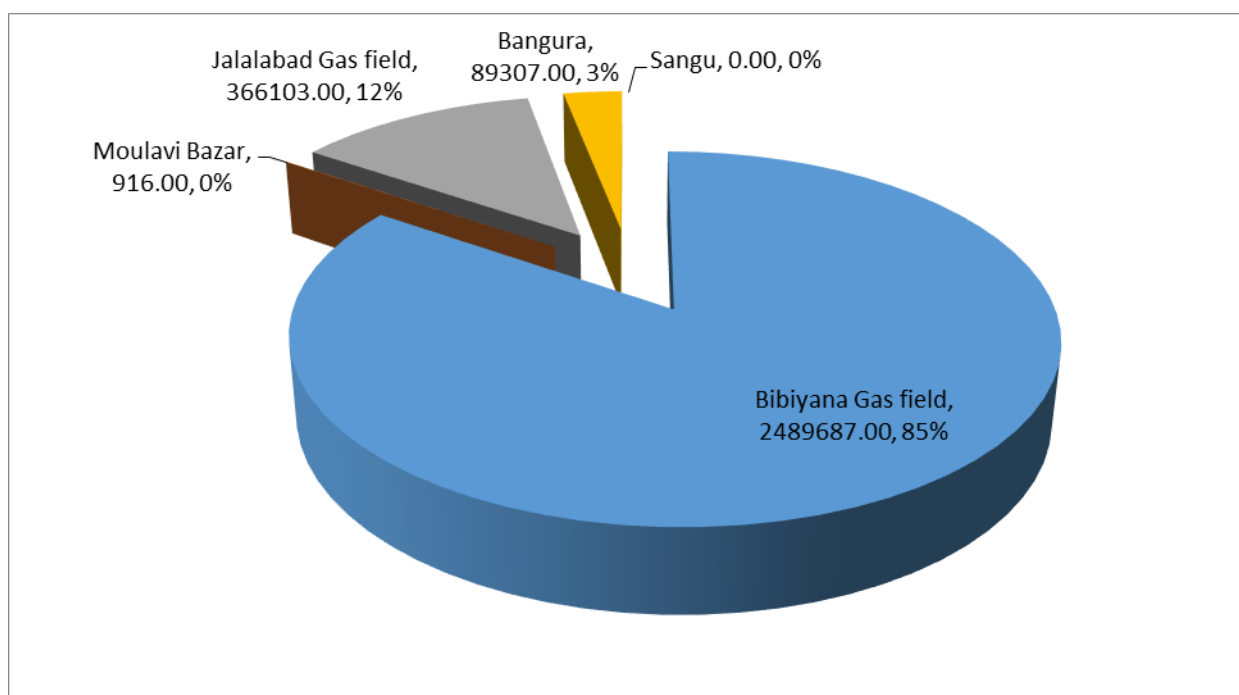
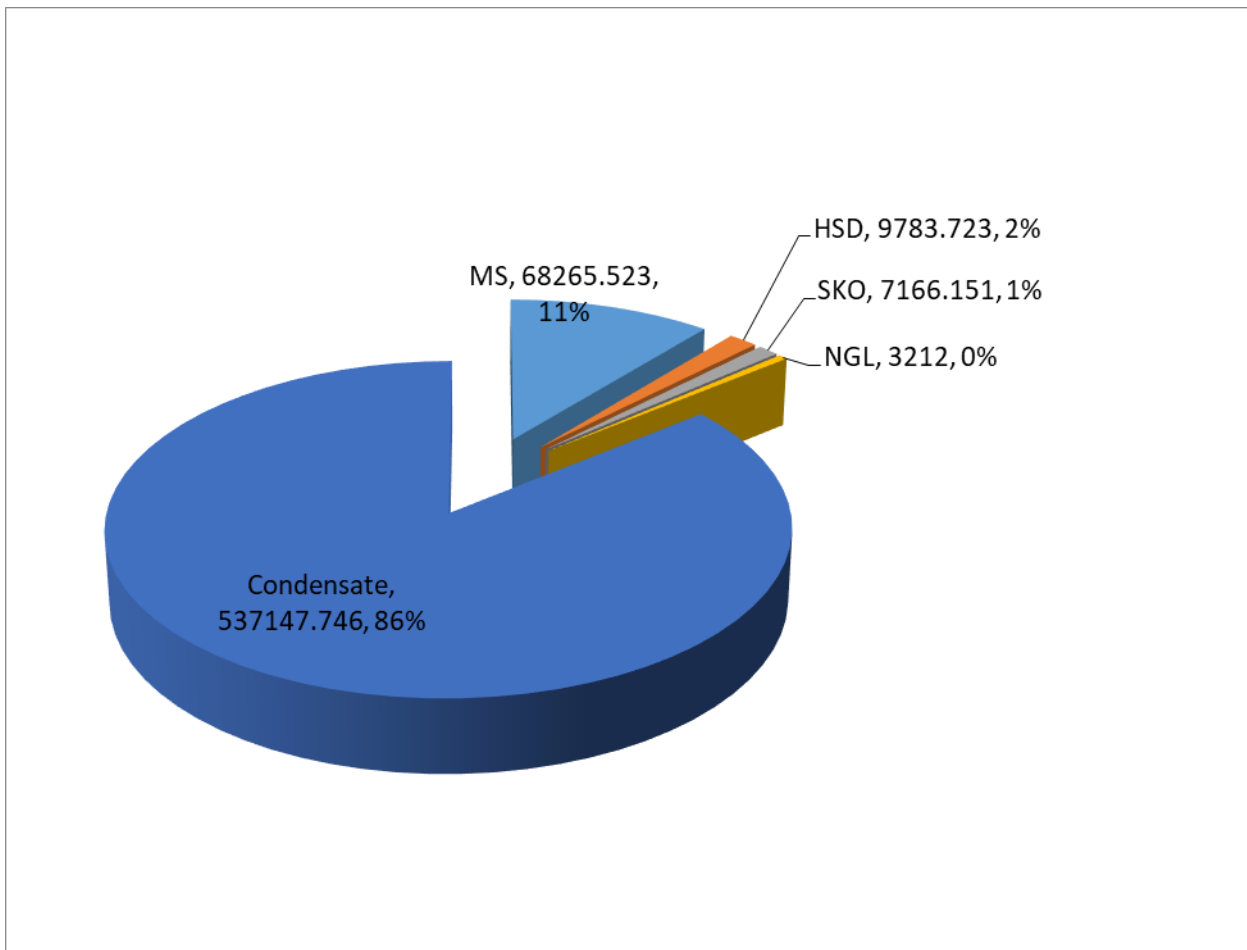


Table 21 : Annual Recovery of Liquid in 1000 Liter FY 2020-21

SI No.	Name of Product	Liter
1.	MS	68265.523
2.	HSD	9783.723
3.	SKO	7166.151
4.	NGL	3212.000
5.	Condensate	537147.746
Total		625575.14

Source: MIS Report, Petrobangla

Figure 20 : Annual Recovery of Liquid in 1000 liter



6.0 Gas distribution scenario in the FY 2020-2021

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 (TGTDC)
- 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:

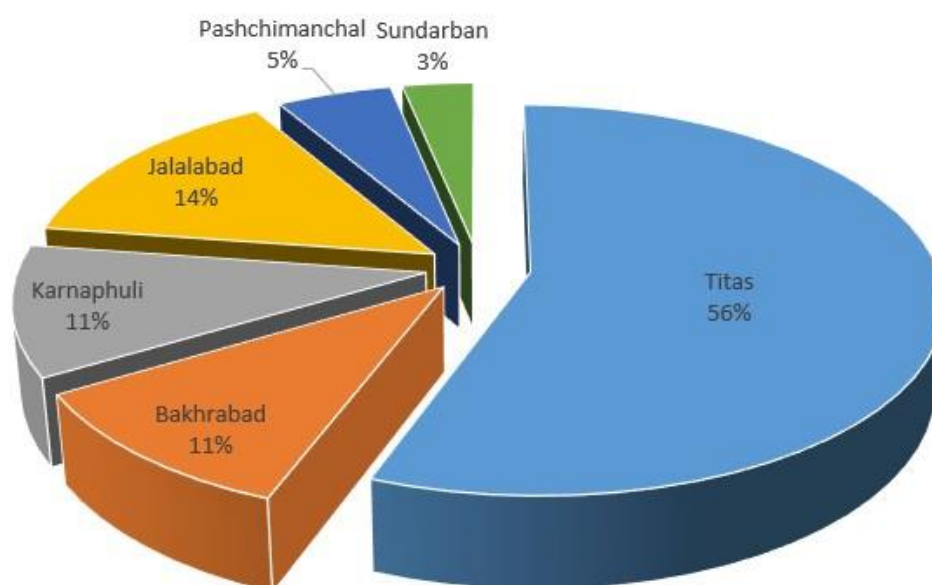
Amount of Gas purchase by different distribution companies from the production companies of Petrobangla & IOCs is shown below:

Table 22 : Amount of Gas Purchase by Distribution companies

Name	Titas	Bakhrabad	Karnaphuli	Jalalabad	Pashchimanchal	Sundarban	Total
MMCM	16182.793	3094.760	3141.260	4117.777	1526.528	941.834	29004.952
BCF	571.41442	109.276	110.9179	145.3987	53.9017	33.2562	1024.16486

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 (TGTDCCL)

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	67.04	7343.12	13.20	1725.19	0.00	0.00	1.87	119.42	0.06	32.50
Non-Govt. organization	86.09	21482.70	0.00	0.00	136.78	50034.15	146.44	42702.90	2.66	1839.21
Total	153.13	28825.82	13.20	1725.19	136.78	50034.15	148.32	42822.32	2.72	1871.71

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	0.23	64.41	1.22	963.78	83.63	10248.42
Non-Govt. organization	0.00	0.00	18.19	18593.24	86.20	28735.71	476.37	163387.91
Total	0.00	0.00	18.43	18657.65	87.42	29699.49	560.00	173636.33

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	59.33	7477.11	13.28	1673.15	1.11	433.53	0.00	0.00	0.00	0.00
Non-Govt. organization	10.15	1279.69	0.00	0.00	2.63	1031.68	2.31	699.59	1.24	710.77
Total	69.48	8756.80	13.28	1673.15	3.74	1465.21	2.31	699.59	1.24	710.77

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	0.49	176.16	0.00	0.00	0.00	0.00	74.20	9759.95
Non-Govt. organization	0.00	0.00	15.83	5647.09	0.00	0.00	5.68	5629.40	37.84	14998.22
Total	0.00	0.00	16.32	5823.25	0.00	0.00	5.68	5629.40	112.05	24758.17

Source: 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	20.80	2793.78	8.42	1113.34	0.76	303.03	1.03	327.01	0.00	0.42
Non-Govt. organization	6.33	820.21	16.19	5562.02	16.91	6670.31	17.49	5371.53	1.09	721.26
Total	27.14	3613.99	24.60	6675.36	17.68	6973.34	18.52	5698.54	1.09	721.68

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	1.19	425.82	0.00	0.00	0.02	21.94	32.23	4985.34
Non-Govt. organization	0.00	0.00	17.48	6324.57	0.02	7.40	4.56	4565.03	80.08	30042.33
Total	0.00	0.00	18.67	6750.39	0.02	7.40	4.58	4586.97	112.30	35027.67

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	71.45	9004.40	13.57	1710.30	0.17	68.50	0.24	71.40	0.00	0.00
Non-Govt. organization	27.31	3442.30	0.00	0.00	8.38	3288.30	9.96	3018.30	0.73	409.20
Total	98.76	12446.70	13.57	1710.30	8.56	3356.80	10.20	3089.70	0.73	409.20

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	0.00	0.00	0.00	0.00	0.97	346.20	86.40	11200.80
Non-Govt. organization	0.00	0.00	0.96	291.70	4.44	4396.40	6.27	2238.50	58.06	17084.70
Total	0.00	0.00	0.96	291.70	4.44	4396.40	7.24	2584.70	144.46	28285.50

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	23.42	3204.52	0.00	0.00	0.05	17.29	0.00	0.28	0.00	0.00	0.17	60.77	23.64	3282.86
Non-Govt. organization	2.104	2995.08	2.06	821.99	1.89	591.14	0.23	134.10	1.95	1942.05	4.13	1472.99	31.30	7957.35
Total	44.47	6199.60	2.06	821.99	1.94	608.43	0.23	134.38	1.95	1942.05	4.29	1533.76	54.94	11240.21

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	32.71	4122.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.71	4122.85
Non-Govt. organization	0.00	0.00	0.24	93.43	0.46	139.74	0.00	0.79	0.00	0.00	0.22	77.92	0.92	311.88
Total	32.71	4122.85	0.24	93.43	0.46	139.74	0.00	0.79	0.00	0.00	0.22	77.92	33.63	4434.73

Source: Petrobangla MIS Report

7.0 Gas consumption scenario in the FY 2020-21

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

Table 29 : Sector wise Gas Consumption in FY 2020-21

(1CM=35.31CF)

SI No.	Name of Specification	MMCM	Bcf	MMcfd
1.	Power	12055.97	425.70	1166.29
2.	Industry	5147.21	181.75	497.94
3.	Captive	4787.59	169.05	463.15
4.	Fertilizer	1830.91	64.65	177.12
5.	Commercial	170.42	6.02	16.49
6.	Domestic	3799.82	134.17	367.59
7.	CNG	993.09	35.07	96.07
8.	Tea estate	27.86	0.98	2.69
Total		28812.87	1017.38	2787.35

Source: MIS Report, Petrobangla

Figure 22 : Sector wise Gas Consumption

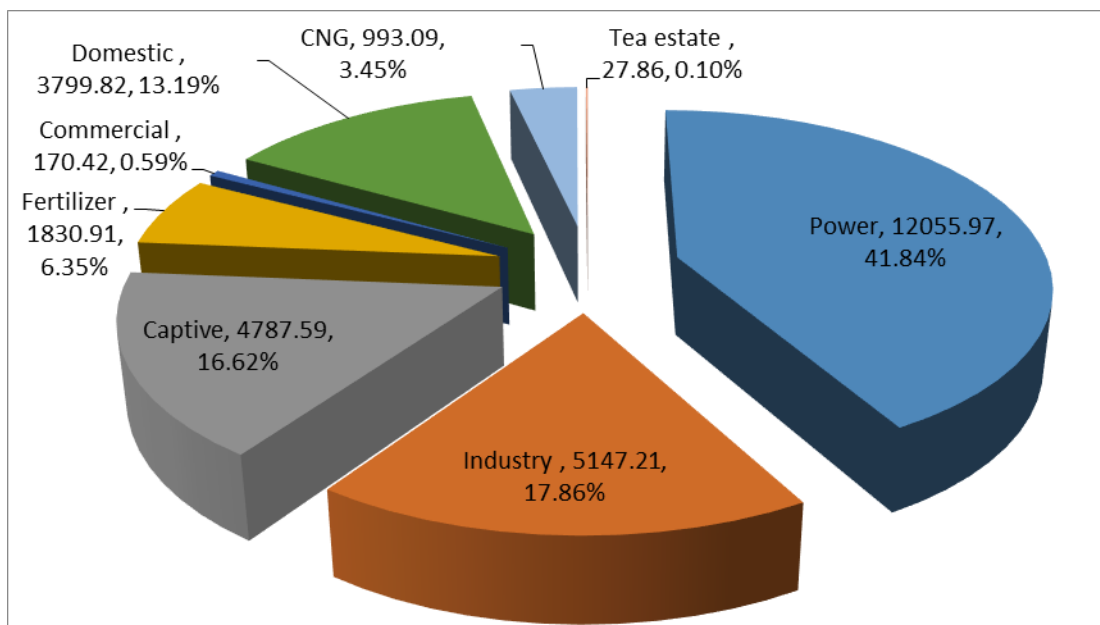
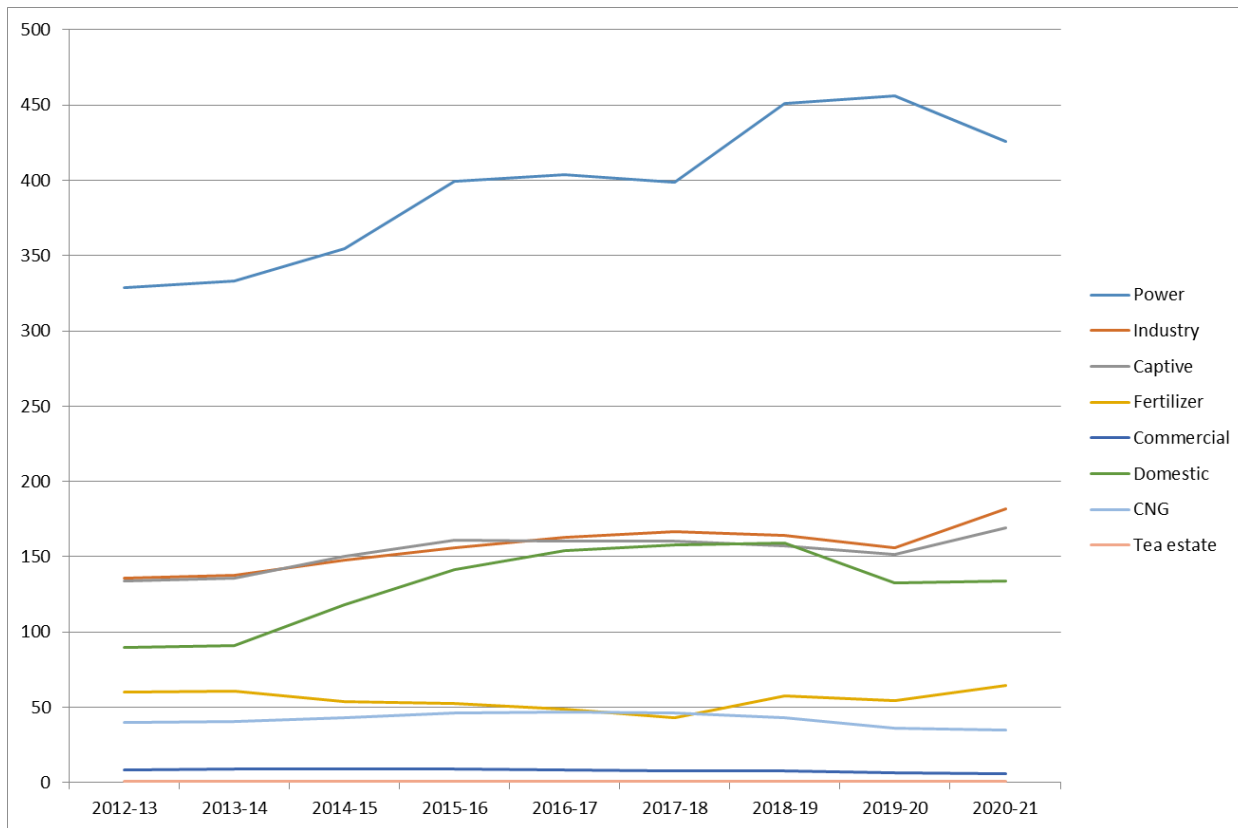


Table 30 : Fiscal Year Sector wise Gas Consumption

(in Bcf)

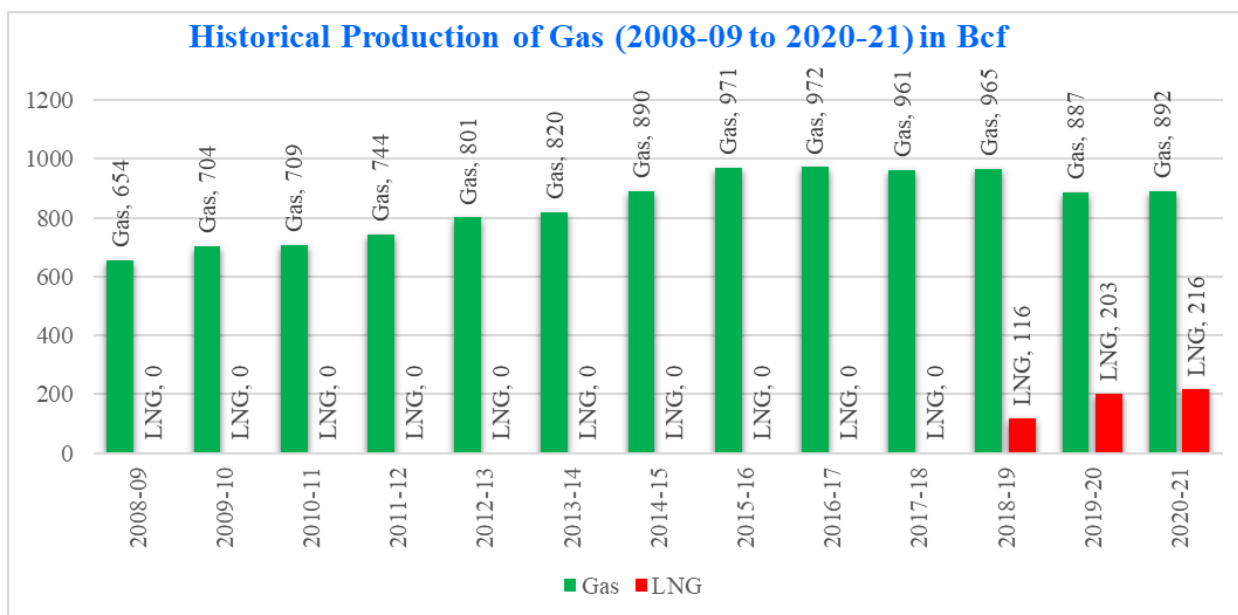
Fiscal Year	Power	Industry	Captive	Fertilizer	Commercial	Domestic	CNG	Tea estate	Total
2012-13	328.80	135.72	134.12	59.94	8.80	89.73	40.15	0.79	798.05
2013-14	333.37	137.61	135.98	60.78	8.93	90.98	40.70	0.80	809.15
2014-15	354.71	147.70	150.02	53.81	9.09	118.17	42.92	0.80	877.22
2015-16	399.59	155.98	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

Figure 23: Fiscal Year Sector wise Gas Consumption



8.0 Historical Gas Production Scenario

Figure 24 : Historical Production of Gas (2008-2021) in Bcf



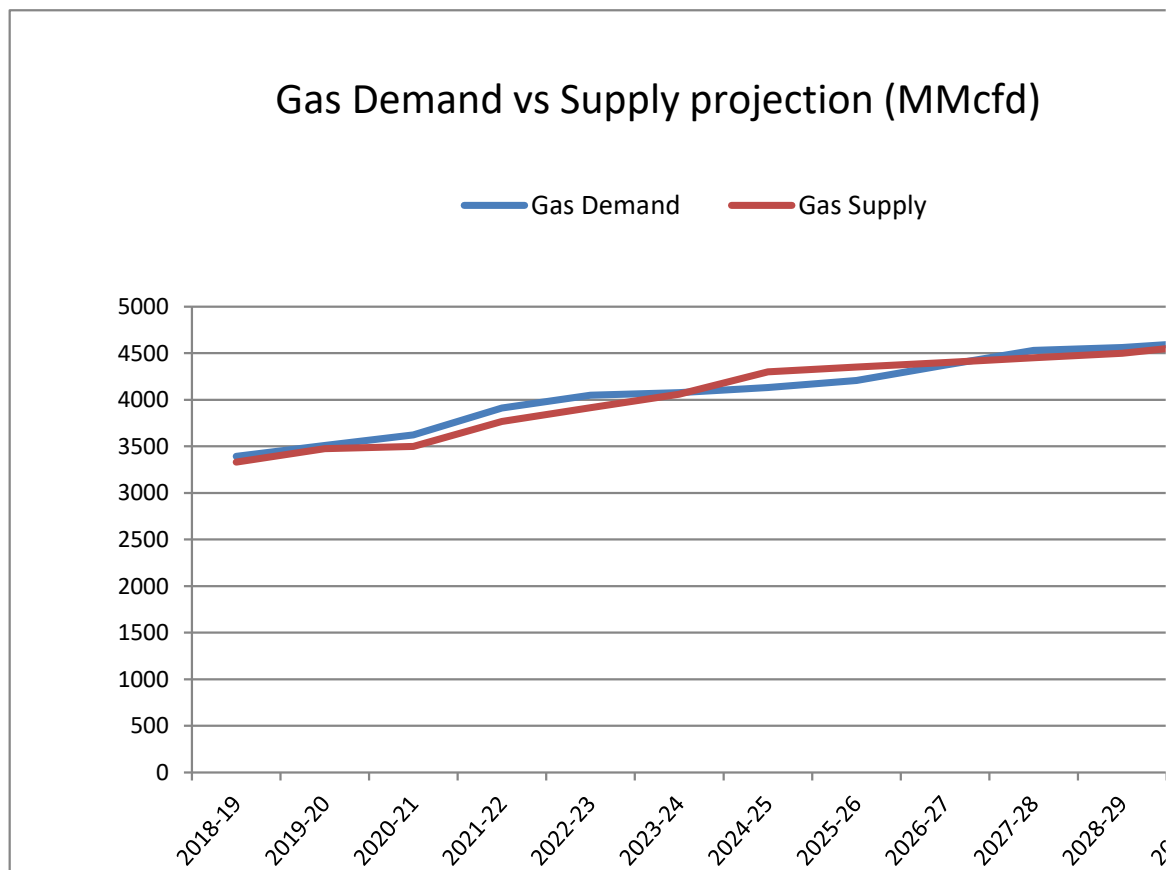
9.0 Gas demand vs Supply projection

Table 31 : Demand vs Supply

Year	* Power	Fertilizer	Cap. Power	Industry	Domestic	CNG	Commercial & Tea	Total Demand	Total Supply
2019	1284	316	480	710	425	139	38	3392	3331
2020	1334	316	480	776	425	139	38	3508	3477
2021	1384	316	480	842	425	139	38	3624	3500
2022	1662	316	432	908	425	130	38	3911	3769
2023	1786	316	389	974	420	125	38	4048	3915
2024	1780	316	350	1040	431	120	38	4075	4061
2025	1803	316	315	1106	442	110	38	4130	4300
2026	1844	317	283	1172	453	100	38	4207	4350
2027	1958	319	255	1238	465	100	38	4373	4400
2028	2087	321	230	1304	476	75	38	4531	4450
2029	2060	323	207	1370	488	75	38	4561	4500
2030	2058	325	186	1440	500	75	38	4622	4600

(*) Source: HCU Data Bank

Figure 25 : Demand vs Supply projection

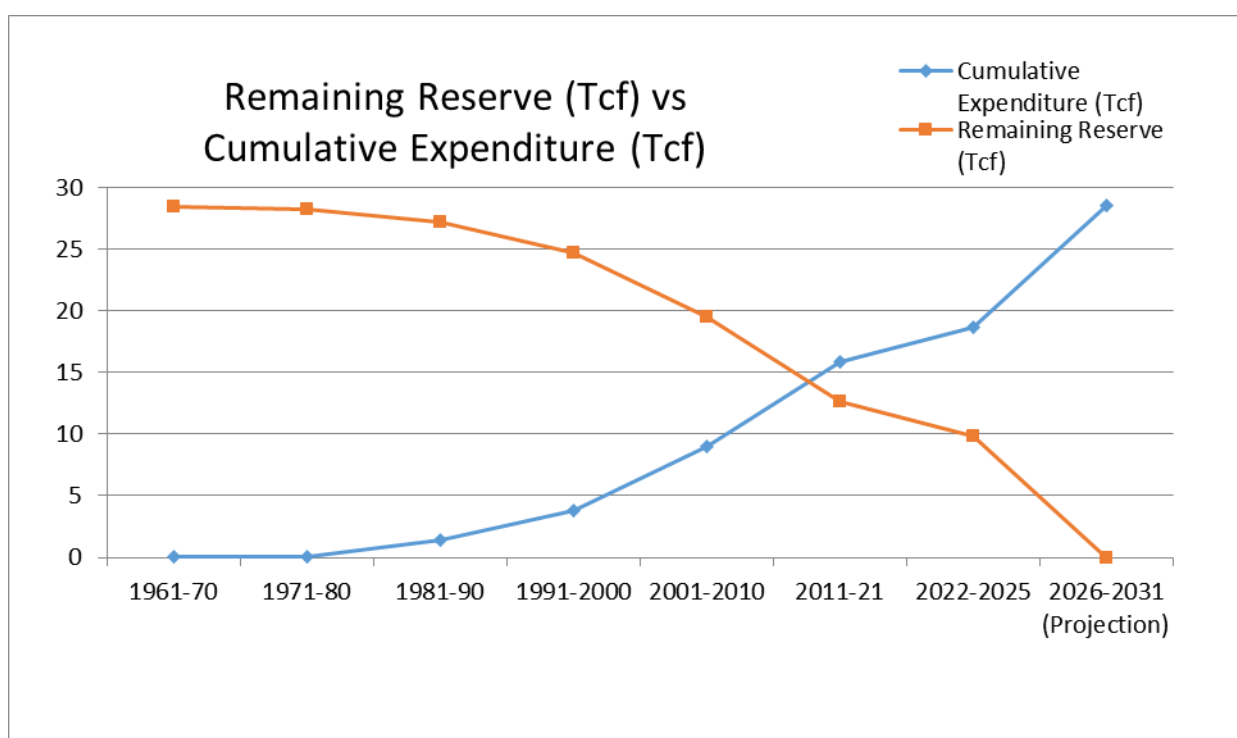


10. Gas remaining reserve against expenditure of Bangladesh from 1961-2031

Table 32 : Gas remaining Reserve vs Cumulative Expenditure

Year	Cumulative Expenditure (Tcf)	Remaining (Tcf)
Recoverable(Proven +Probable)	0.000	28.52
1961-1970	0.066	28.45
1971-1980	0.031	28.22
1981-1990	1.364	27.16
1991-2000	3.853	24.67
2001-2010	9.028	19.49
2011-2021	15.898	12.62
2022-2025 (Projection)	18.68 (Projection)	9.83
2025-2031 (Projection)	28.52 (Projection)	0.00

Figure 26: Remaining Reserve (Tcf) vs Cumulative Expenditure (Tcf)



11. Conclusion

The government has taken several steps to deal with the reduction in the production of gas. Exploitation and exploration of domestic resources have been emphasized. Power Sector Master Plan has already been formulated and initiative has been taken to produce a large portion of the electricity using coal. Gas exploration activities by BAPEX have been strengthened and some prospective wells have already been identified. Discoveries of more new wells are much expected in the future. Besides onshore, exploration activities are being undertaken in the offshore and fields with large amount of gas are expected. In some old gas fields, the 3D Seismic survey has revealed more reserves of gas than before. For example, using new technology Bibiyana gas field found an increase of its reserve and a further production for some additional periods will continue. The government has taken initiative to meet the demand of energy through import of LNG, already LNG supplies have started and more LNG will be added to the national grid in the next few years. GSMP has been formulated and new entrepreneur-friendly PSC has been revised. Moreover, government has taken several steps to boost up the coal sector. ERL expansion is underway and SPM project has been initiated and the progress of the project work is ongoing. When the ongoing & future planning of development work of BPC will be implemented then the energy security will be enriched for the mass people of Bangladesh. New horizon has been exposed in sea after settlement of maritime boundary with Myanmar and India. Cross border energy trade will get momentum. Considering all the perspectives, we hope that in the near future, Bangladesh is well prepared to meet the Energy demand and ensure the supply of uninterrupted energy for achieving the 8th FYP, Vision-2021, SDG-2030 and Vision-2041.

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