

WELCOME

**To The
Presentation
On**

**JICA Energy Policy Training
Country Presentation: Bangladesh**

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Training Period: May 08 to 28, 2011

Government's Energy Security Vision-2021

(Substantive Key Points)

- **Ensure energy security by the Year 2021**
 - ❖ **Consideration: Oil, gas, coal, water, wind & solar energy as primary energy source for energy policy**
- **Preparation & Implementation of Short, Mid & Long term plan at the state-of-the- art level**
 - ❖ **Consideration: Review of Power System Master Plan & Power Sector Development Strategy**
- **Render attempts for regional energy security**
 - ❖ **Consideration: Mutual co-operation between the neighboring countries**
- **Priority to meet energy problem**
 - ❖ **Consideration : National interest to -**
 - ❑ **Adopt environment friendly policy to acquire mineral resources of the northern Bangladesh**
 - ❑ **Industrialization and man power utilization of that area**

GAS SECTOR AT A GLANCE

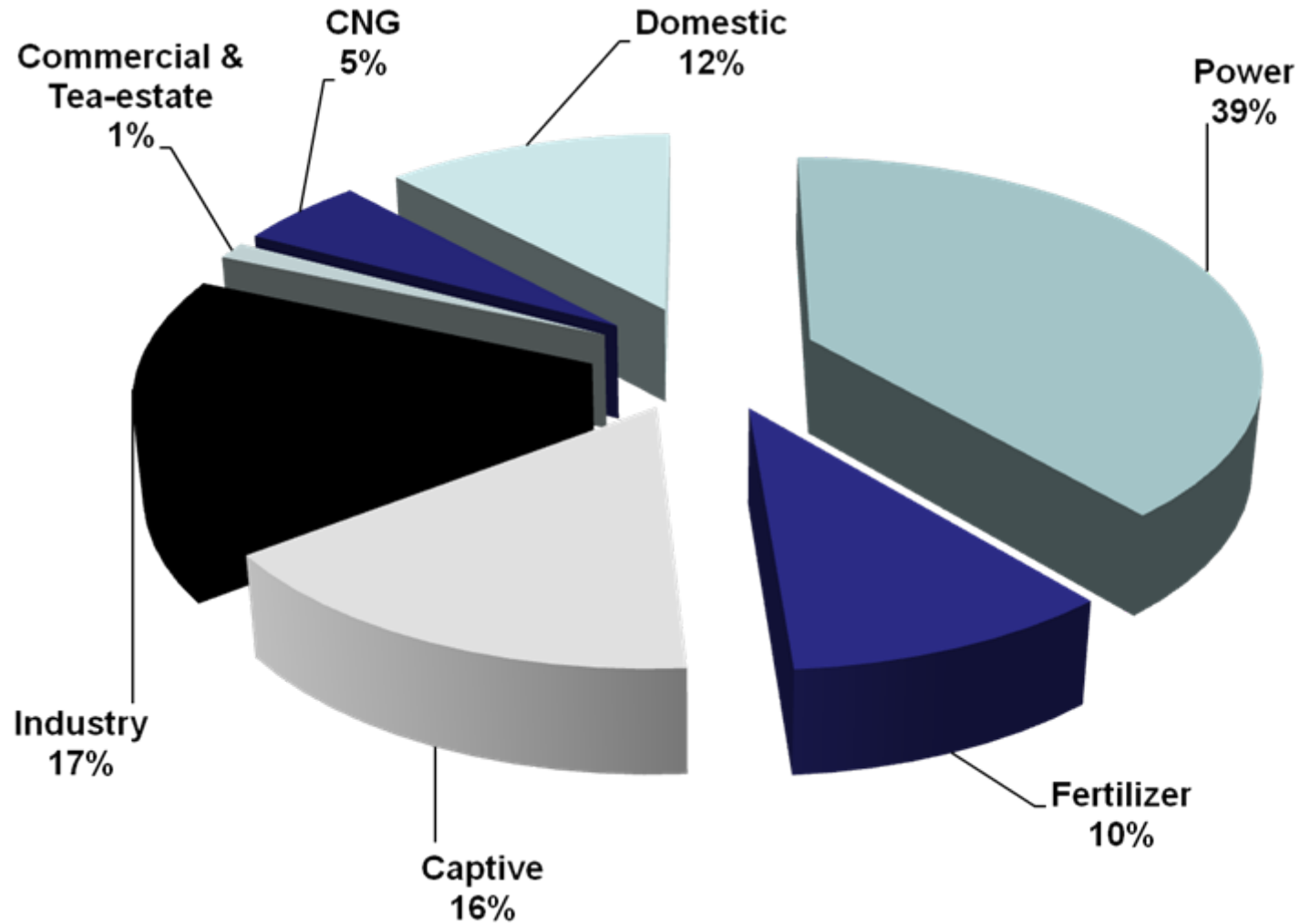
(As on December'10)

•Total number of gas fields	: 23
•Number of gas fields in production	: 17
•Number of producing wells	: 79
•Total recoverable (proven + probable) reserve	: 20.63 TCF
•Total consumption of gas up to December' 10	: 9.43 TCF
•Total reserve remaining up to December' 10	: 11.20 TCF
•Present daily gas production	: Around 2000 MMCF
•Present daily gas production by Petrobangla	: 960 MMCF
•Present daily gas production by IOCs under PSC	: 1040 MMCF
•Daily gas demand	: 2500(+) MMCF
•Daily shortage of gas supply	: 500(+) MMCF

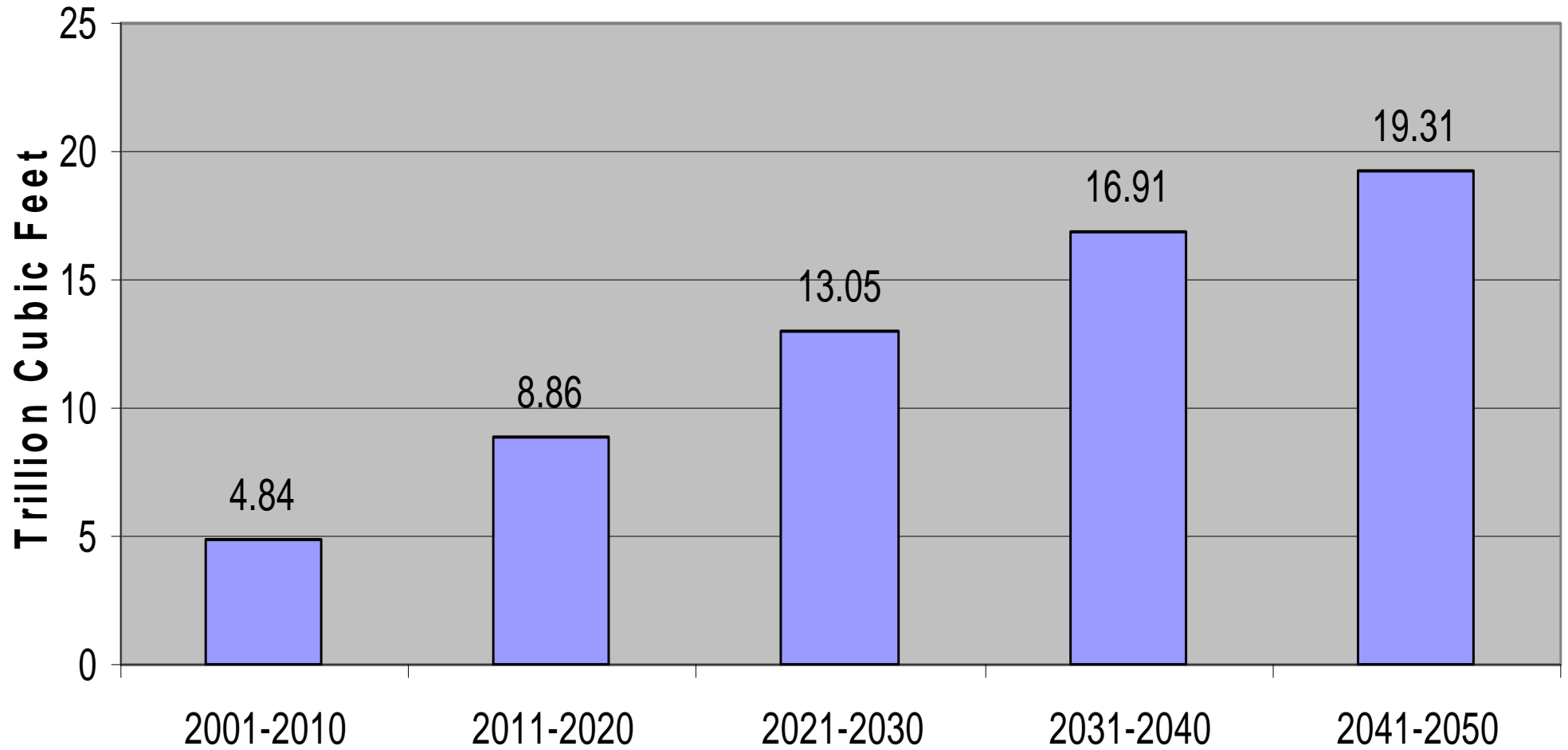
**Daily gas production capacity increased during
present government from Jan. 09 to Dec.10 : 284 MMCF**

CATEGORY WISE GAS CONSUMPTION

FY-2009-2010



Projected gas demand over next 50 years





Gas Demand Projection: FY 2010 - 15

Gas in MMCFD

Company	2010	2011	2012	2013	2014	2015
A. Titas Gas T & D Company Ltd.	1838	1936	2268	2493	2694	2838
B. Bakhrabad Gas Systems Ltd. & Karnafully Gas Distribution Company Ltd.	494	575	602	617	633	650
C. Jalalabad Gas T & D systems Ltd.	180	181	308	301	303	305
D. Pshchimanchal Gas Company Ltd.	100	102	136	197	199	202
E. BAPEX & Sundarban Gas Company Ltd.	7	7	68	104	160	167
Total Gas Demand	2619	2800	3382	3712	3990	4162
Total Gas Demand at 90% Load Factor	2357	2520	3043	3341	3591	3746



PRESENT DEMAND & SUPPLY SCENARIO

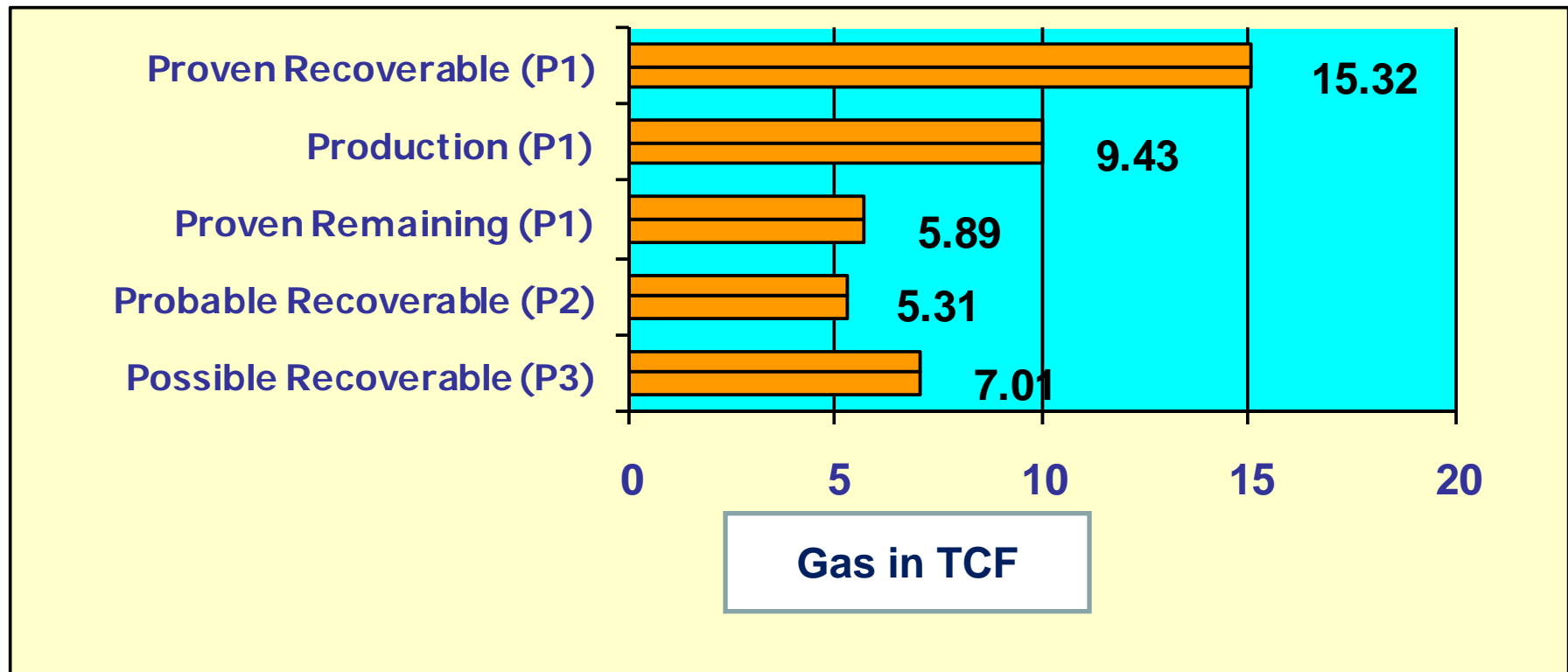
(MMCFD)

Sector	Customer type	Demand	Supply	Shortfall
Bulk	Power	923	804	
	Fertilizer	289	132	
	Non-grid power (SPP)	40	37	
	Sub-total	1242	973	
Non-bulk	Captive	425	340	
	CNG	125	114	
	Industry	400	323	
	Domestic	275	224	
	Commercial & others	36	26	
	Sub-total	1261	1023	
Grand total		2500+	2000 (+)	500+



Recoverable Gas Reserves & Production Status

As of December 2010



Note: Reserve estimation updates ongoing. Above reserve estimations were done in 2003.

Gas Production Augmentation Program : Short, Mid & Long Term (Period 2010 to 2015)

Sl.	Program & Period	Production Increase (MMCFD)	Activities
A.	Short Term, By Dec'10	63 (as per prog.) + 51 (outside prog.)	Workover wells at Habigonj , Titas, Meghna, Kailastilla, Bakhrabad and Sylhet gas fields.
B.	Mid Term, By June'13	(1285 + LNG import 500) = 1785	Total 32 wells + New 02 wells = 34 wells (Exploration, Development/Appraisal & Workover wells LNG Import : 500 mmcf.
C.	Long Term, By Dec'15	680	Development/Appraisal : 20 wells Exploration wells : Offshore wells as may be delineated/explored.
	Grand Total (A+B+C)	2528 + 51 (outside prog.)	Besides this scheduled programs some more drilling programs are under active consideration to enhance the daily gas production

COAL PROSPECTS IN BANGLADESH

No.	Place/Field (Discovery)	Depth (Meter)	Area (Sq. Km)	Proven Reserve (Million Ton)
1.	Barapukuria, Dinajpur(1985)	119-506	6.68	390
2.	Khalaspir, Rangpur(1995)	257-483	12.00	143(GSB), 685(Hosaf)
3.	Phulbari, Dinajpur(1997)	150-240	30.00	572
4.	Jamalganj, Jaipur(1965)	900-1000	16.00	1,050
5.	Dighirpar, Dinajpur(1995)	327	Yet to be Known	200 (partly evaluated)
Total				2,897

Regional Energy Perspectives

(South Asia Region)

- Global energy scenario has been changing
- No country is independent of global energy changing impact
- In 2009, South Asia's annual primary fuel based energy demand was 554 mtoe
- By the year 2020, it would reach 858 mtoe (Million Tonnes Oil Equivalent)
- Between 2010 to 2020, additional around 589 mtoe would be needed to meet from other different sources **like hydro, nuclear, waste energy, renewable and/or imported energy**
- By the year 2020, 52% of the total cumulative primary fuel demand would be from electricity sector
- To address this additional energy demand South Asia needs collective and integrated energy policy for SAARC
- The present Bangladesh Government has already addressed this issue in its Energy Security Vision 2021

Key Points of Bangladesh National Energy Policy'96

1. Background & Objectives
2. Energy Resources
3. Status of Energy Consumption
4. Demand Scenario
5. Supply Options for Development of Energy Resources
6. Policy Issues on Resource & Technology Assessment; Management of Gas, Petroleum Fuels, Coal & Power Systems; Energy Conservation; Environment Considerations; Pricing & Investment Policies; Zonal Distribution; Area Based Planning; Strategic/Emergency Stocks; Regional/International Co-operation & others.
7. Non-Renewable, Petroleum, Renewable & Rural, Power, and Rural Electrification Policies respectively.

CONCLUSIONS

- **Since from the Election Manifesto, present Government has been being keen to move forward to achieving goal to ensuring energy security for Bangladesh by 2021**
- **Necessary plans and programs have been taken up**
- **Implementation processes are progressing at war footings**
- **Regional energy strategies and action plans are being pursued by the government with due priority**
- **Petrobangla has been rendering its all out efforts as applicable for the indigenous gas and coal sector resource harnessing**

National Energy Policy for Bangladesh requires policy formulation for achieving goal to ensuring country's energy security by 2021

BANGLADESH VISION
IS
Ensuring Energy Security by 2021

THANKS

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