

2nd Taskforce 1 Meeting

Review of Electricity Laws, Regulation & Policies: Bangladesh Perspective



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Bangladesh Power Sector Vision

- Bangladesh has set its vision to provide electricity to all by the year 2021 at an affordable price
- Private sector has been given due importance for power generation
- Policy and regulatory framework have been enacted accordingly
- A sustainable fuel mix has been considered in generation planning
- Contribution from Cross border trade has also been considered



Bangladesh Power Sector at a Glance

- **Generation Capacity** : 10,341 MW
- **Power Import** : 500 MW
- **Highest Generation** : 6,675 MW (July 12, 2013)
- **Per Capita Generation** : 321 kWh
- **Transmission line** : 9,300 Ckt KM
- **Distribution Line** : 3,00,000 KM
- **Total Consumers** : 14.50 Million
- **Access to Electricity** : 62 %
- **Electricity Growth** : 12 %

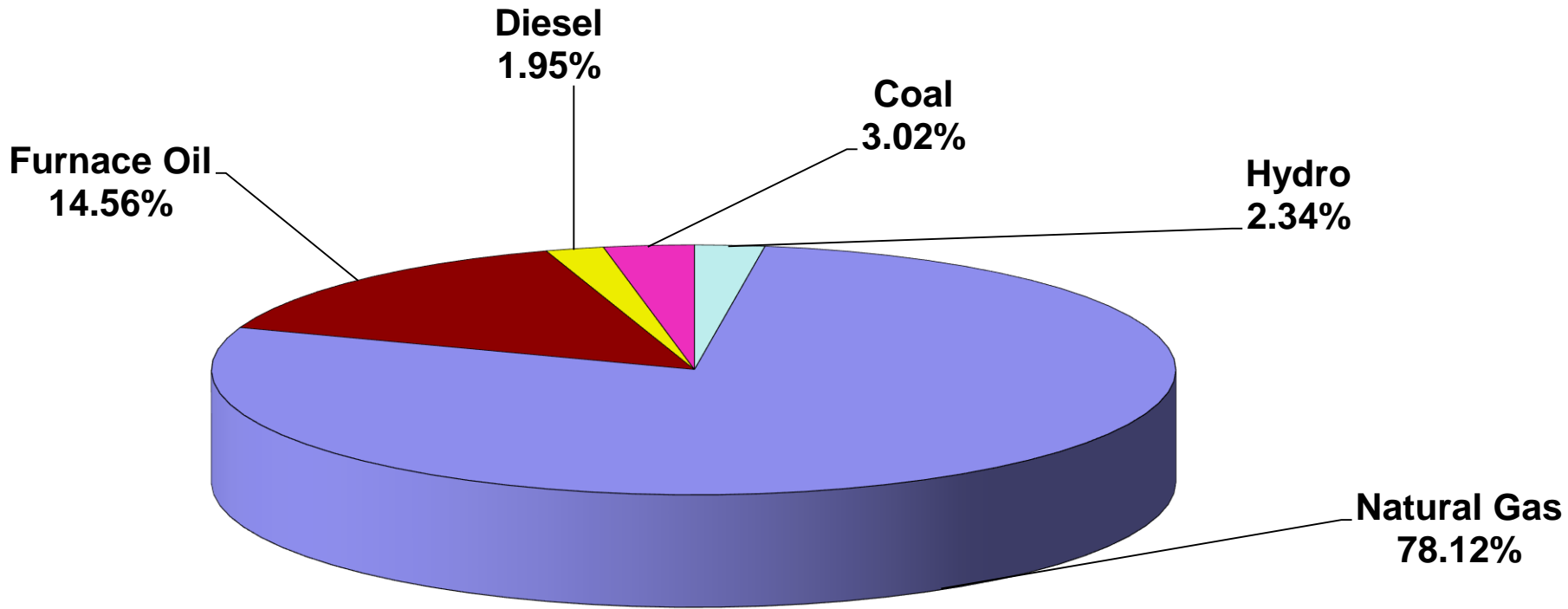


Generation Capacity

	Generation Capacity (MW)	(%)
Public	5,962	58
Private	3,879	37
Power Import	500	5
Total	10,341	100



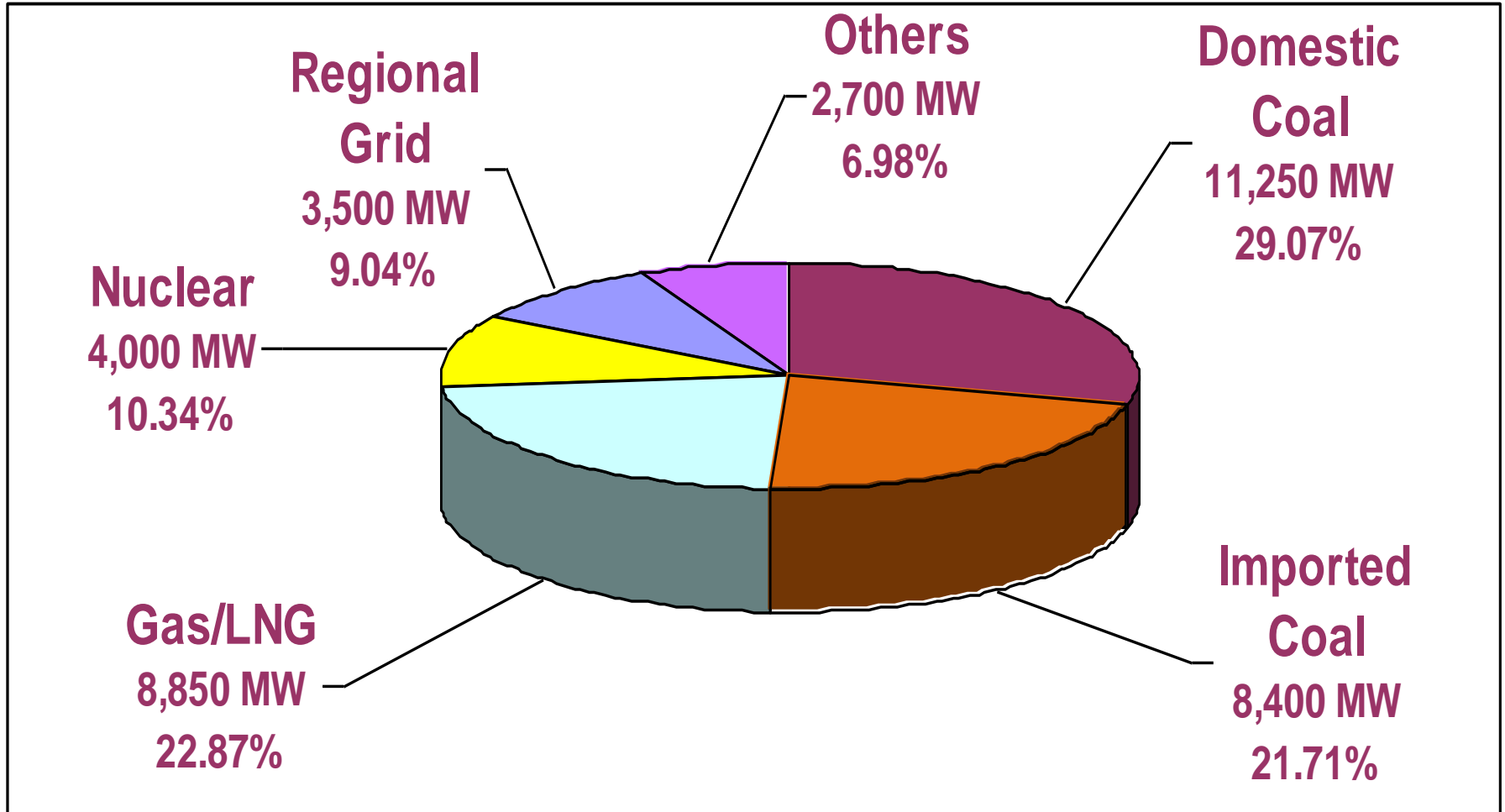
Energy Generation by Fuel Mix: FY 2013



Total Net Generation : 38,229 MkWh



Probable Power Generation : Primary Fuel Sources by 2030



Total Generation Capacity in 2030: 38,700 MW



Regional Cooperation

❑ Regional Power Trade

- Bangladesh – India power exchange deal
- 500 MW electricity imported through 400 KV double circuit line HVDC sub-station
- Additional 500 MW under negotiation, 100 MW from Tripura, India
- Discussion going on for import of 500 MW from Nepal
- Further dialogue ongoing for regional trade between Bangladesh-Nepal and Bangladesh – Bhutan



Regional Cooperation

❑ Joint Investment in Regional Power projects

- Joint investment between Bangladesh – India started
- Discussion going on for more hydro projects
- Joint investment being explored between Bangladesh-India-Nepal and Bangladesh-India-Bhutan for hydro projects



Regional Power Trade: Potential

- ❑ **Developing a Regional Power Grid is on card**
- ❑ **Bilateral initiative between Regional Countries**
- ❑ **Harnessing Hydro Power Potential from North - Eastern India**
- ❑ **Harnessing Hydro Power Potential from Nepal and Bhutan**
- ❑ **Joint Investment in Regional Hydro Power Projects**
- ❑ **Developing a SAARC Energy Market**

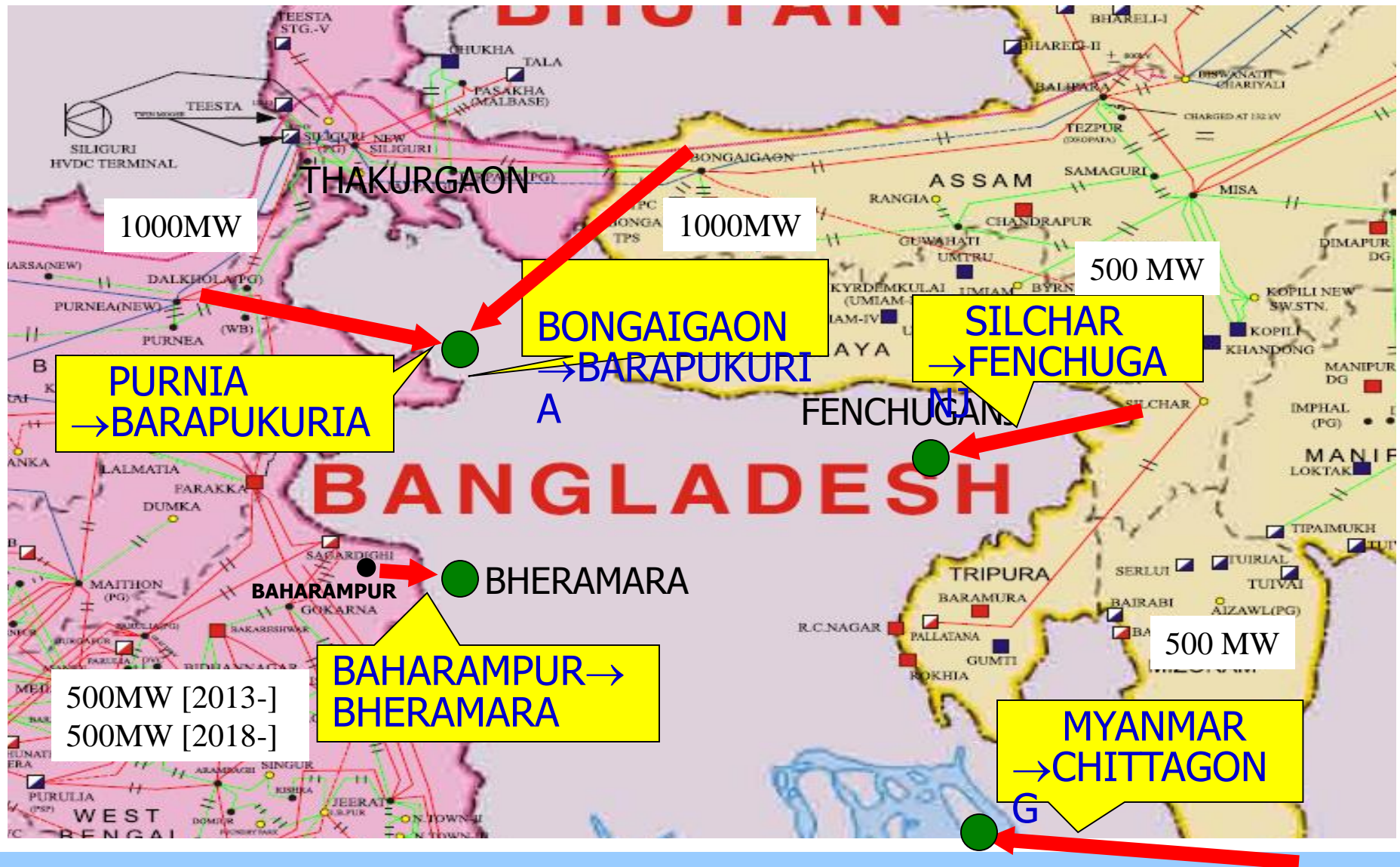


Possibilities: Bangladesh & India Grid Interconnections

- ❑ **765 KV Bongaigaon (NER/India)-Jamalpur/Barapukuria (Bangladesh) – Purnea, Bihar (ER/India)**
- ❑ **Establishment of 500/1000 MW HVDC back-to-back station (in phases) at Jamalpur/Barapukuria.**
- ❑ **Power from Bhutan through Bongaigaon and power from Nepal through Purnea can be tapped.**
- ❑ **Interconnection between Silchar (Assam, India) with Fenchugonj (Bangladesh)**



Regional Power Exchange: Possibilities





Regional Power Exchange: Possibilities

Proposed High Capacity Transmission Corridors between India & Bangladesh

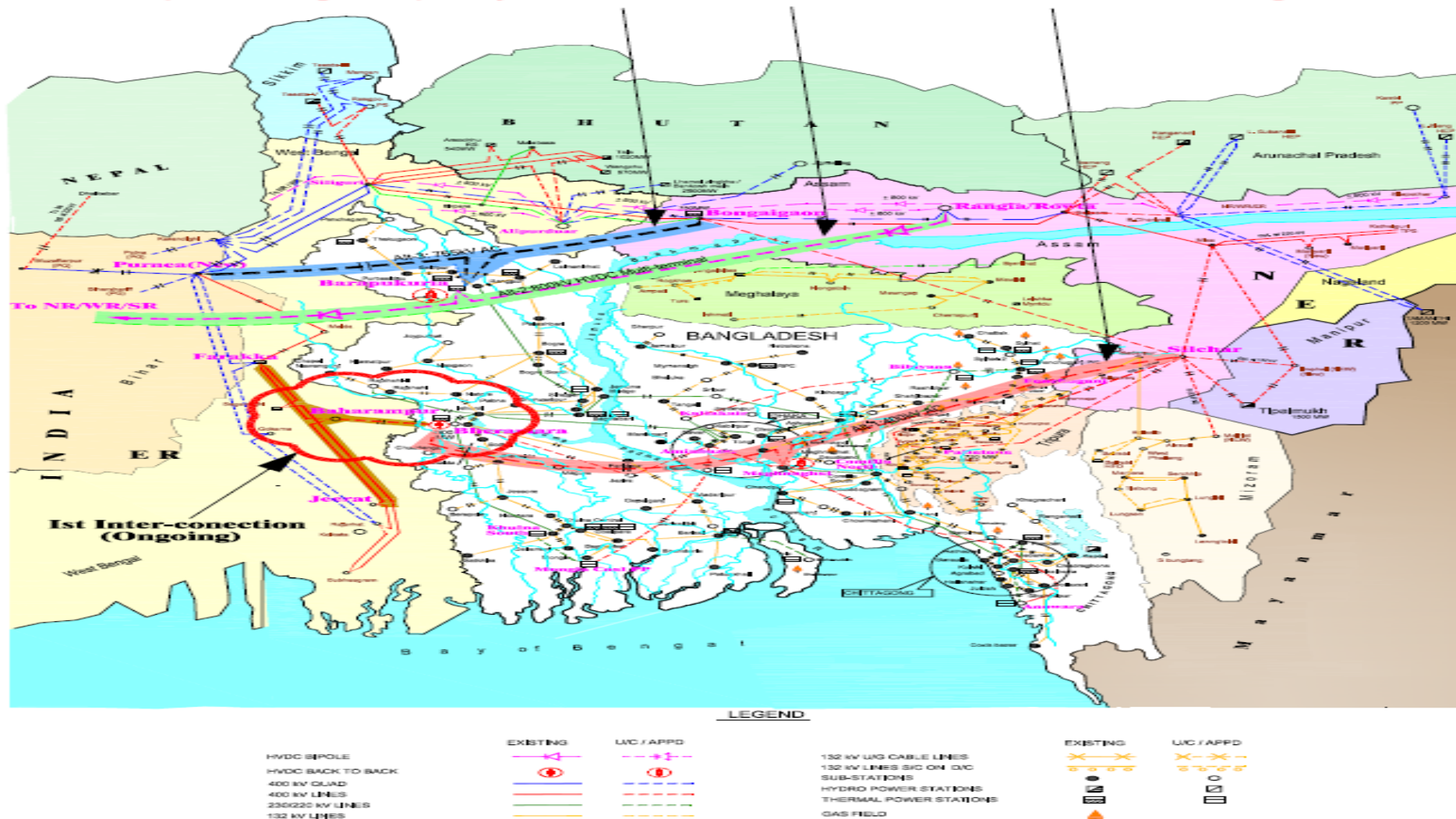


Fig. 3



Policies, Laws & Regulation

- **Private sector participation is encouraged**
- **Private sector generation will be increased from 44% to 60% by 2020.**
- **Private sector will also be allowed in Transmission & Distribution.**



Policies, Laws & Regulation

- Bangladesh already addressed the cross border trade in its PSMP-2010
- The new Electricity Act has been finalised incorporating cross border trade
- A policy has been adopted facilitating the 'Open Access Grid'
- The new Electricity Act provides Open Access Grid
- BERC is fully functional



Policy Laws & Regulation

- **Any Power Entity authorized by the government may export/import Power**
- **Government consent is not necessary when the plant capacity is upto 50 MW**
- **Captive power generator shall have right to have open access to the national grid for carrying out electricity**



Regulatory and Policy Framework (contd..)

- **Power System Master Plan (PSMP) 2010**
- **Electricity Act 1910 amendment is at final stage**
- **Independent System Operator (ISO) will be established.**
- **ISO shall be responsible for optimum scheduling and merit order dispatch from the generating stations in the country or any other sources**
- **Bangladesh Electricity Authority will be set up to administer the Act**



Power Market and Single Buyer

- ❖ **Competitive market structure for bulk power trading will be introduced.**
- ❖ **BERC will frame Regulations**



Cross-Border Trade in Electricity

- Government authorized entity may import/export power using transmission system of the country
- Subject to detailed study, independent, fair & competitive market structure for bulk power trading will be introduced by Government



Thank You