

A Presentation on "Competitive and Investable Energy Market: Policy & Regulatory Framework of Power Markets in India"

By Central Electricity Regulatory Commission

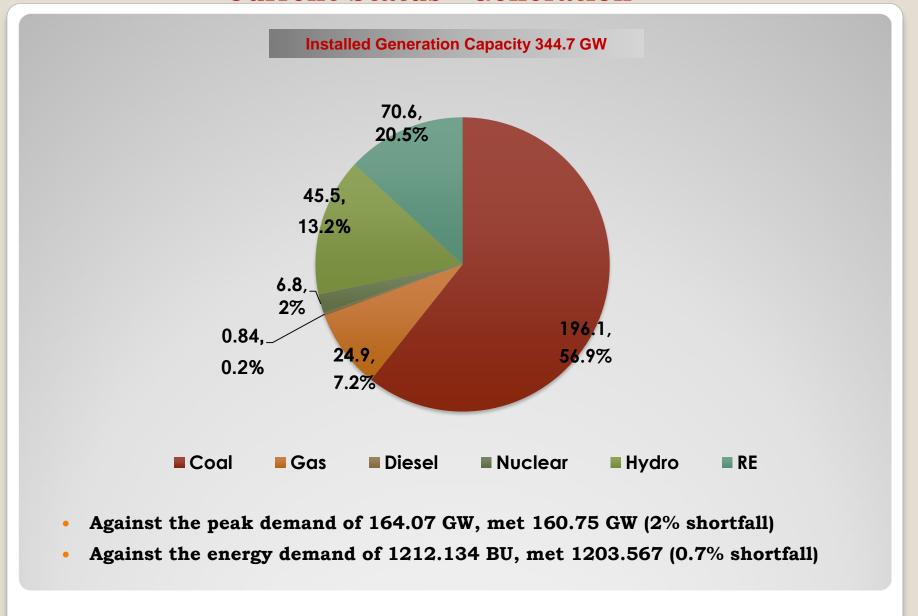
For Asia Pacific Energy Regulatory Forum



In this presentation

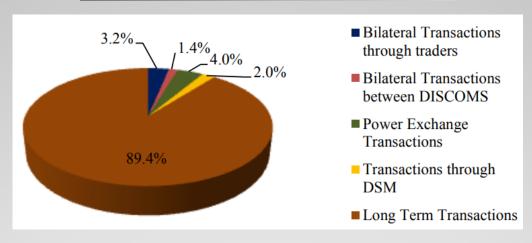
- Vision of Power Market in India
- Evolution of Electricity Industry in India
- Regulatory Initiatives
- •Future of Power Markets in India

Current Status - Generation

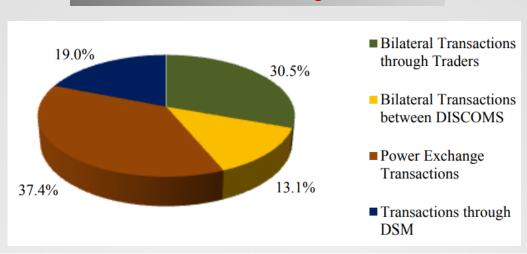


Current Status – Electricity Market

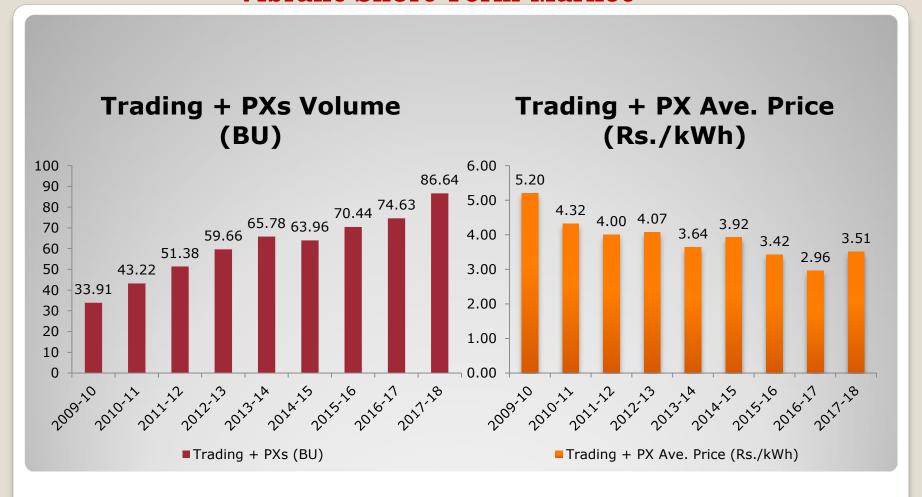




Share of Short Term Market Segments 2017-18



Vibrant Short Term Market



Multiplicity of Players

- 600+ Generating Stations
- 30+ Transmission Licensees
- 70+ Distribution Utilities
- 2 Power Exchanges
- 43 Trading Licensees
- 1 NLDC, 5 RLDCs, All State SLDCs (system operators)



2.

Vision of Power Market in India



Transition from Monopoly to Multi-buyer-Multi-seller market structure

Monopoly – virtual nationalization of electricity sector in 1948

- Operational inefficiency
- absence of cost reflective tariff
- Inadequate generation capacity matching economic growth

Opening of generation sector: 1991

- Limited success;
- Distribution still remained a concern

Focus on Distribution Reforms: 1998

- Reorganisation of SEBs
- Independent regulator
-Wholesome growth still missing!

Paradigm shift in 2003Electricity Act, 2003......



Competition – Electricity Act, 2003

Enabling multiplicity of players and inducing efficiency improvement

Competition/Market - Supply Side:

- De-licensing of Power Generation
- Concept of Trading in Electricity

Competition/Market – Carriage Side:

Market Access: non-discriminatory access to network

Competition/Market - Demand Side:

- Reorganisation of SEBs
- Open Access Consumers



Competition / Market : Supply Side

De-licensing of Generation / Competitive Bidding

- EA 2003: No requirement of license for generation. Liberal provision for captive generation
- Competitive bidding guidelines under section 63 of the Act



Competition / Market : Supply Side....

Power Trading

- Trading- Licensed activity under the Act.
- Regulators entrusted with the responsibility of development of market.



Competition / Market : Carriage Side

Non-Discriminatory Access to Network

- Concept of Open Access
 - Ensuring consumer choice
- Transmission companies debarred from trading in electricity
 - Ensuring neutrality in carriage business



Competition / Market: Demand Side

Reorganisation of SEBs

• Section 131 of the Electricity Act provides for reorganization/unbundling of State Electricity Boards.

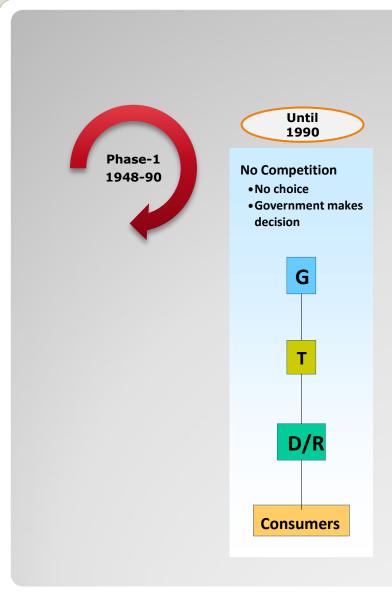
Open Access Consumers

- with direct access to suppliers other than discoms

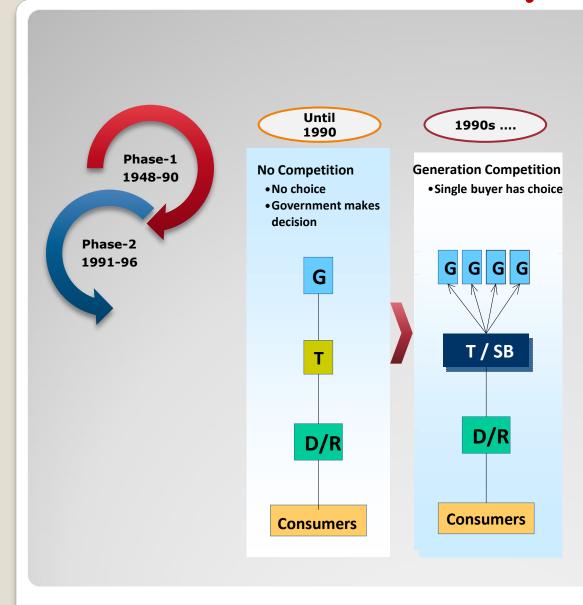


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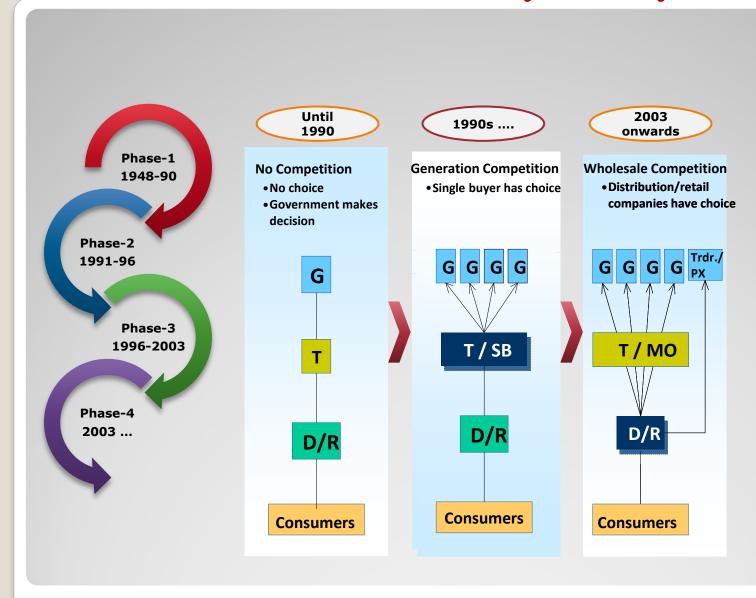




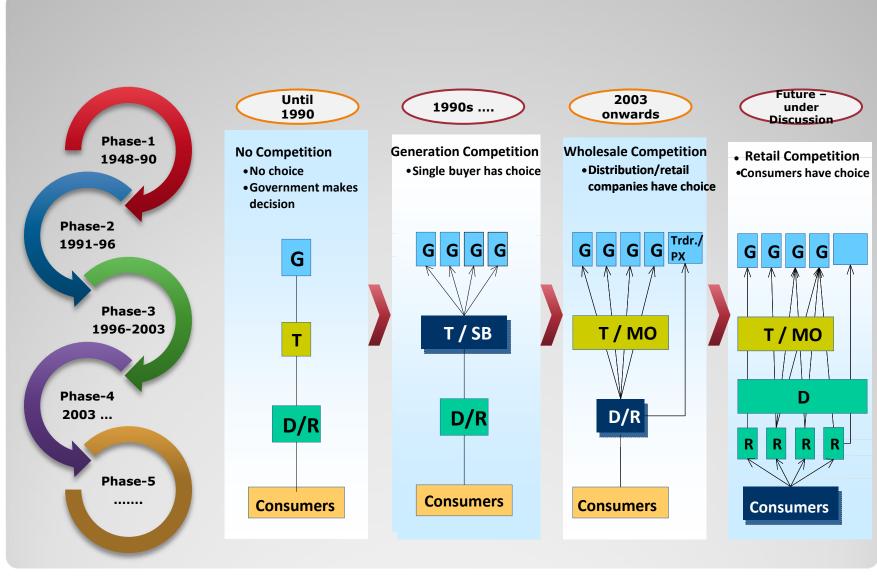














4.

Regulatory Initiatives

Regulatory Initiatives on Market Development



- Open Access Framework
- Trading licenses
- Power Exchanges
- Roadmap for Reserves
- Ancillary Services
- Flexing Thermal Generation
- Renewable Energy Certificates Mechanism



5.

Future of Power Markets - A Perspective



Future of Power Markets in India

- •Linking of Deviation Settlement Price with Day Ahead Market Price
- •Real Time Market Design
- •Re-Designing of Ancillary Services Mechanism
- •Centralized economic disptach model in the day ahead market



Thank you

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