



Power Grid Corporation of India Limited Corporate Presentation (Sep-2011)



Disclaimer



By attending the meeting where this presentation is made, or by reading the presentation slides, you agree to be bound by the following limitations:

- This document has been prepared for information purposes only and is not an offer or invitation or recommendation to buy or sell any securities of Power Grid Corporation of India Limited (the "Company"), nor shall part, or all, of this document form the basis of, or be relied on in connection with, any contract or investment decision in relation to any securities of the Company. The Company's equity shares have not been and will not be registered under the U.S. Securities Act of 1933, as amended (the "Securities Act"), or any state securities laws in the United States and, as such, may not be offered or sold in the United States except pursuant to an exemption from, or in a transaction not subject to the registration requirements of the Securities Act
- The information in this document is being provided by the Company and is subject to change without notice. The Company relies on information obtained from sources believed to be reliable but does not guarantee its accuracy or completeness.
- This document contains statements about future events and expectations that are forward-looking statements. These statements typically contain words such as "expects" and "anticipates" and words of similar import. Any statement in this document that is not a statement of historical fact is a forward-looking statement that involves known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. None of the future projections, expectations, estimates or prospects in this document should be taken as forecasts or promises nor should they be taken as implying any indication, assurance or guarantee that the assumptions on which such future projections, expectations, estimates or prospects have been prepared are correct or exhaustive or, in the case of the assumptions, fully stated in the document. The Company assumes no obligations to update the forward-looking statements contained herein to reflect actual results, changes in assumptions or changes in factors affecting these statements.
- You acknowledge that you will be solely responsible for your own assessment of the market and the market position of the Company and that you will conduct your own analysis and be solely responsible for forming your own view of the potential future performance of the business of the Company.
- This document speaks as of 15 September, 2011. Neither the delivery of this document nor any further discussions of the Company with any of the recipients shall, under any circumstances, create any implication that there has been no change in the affairs of the Company since that date.
- Information contained in the Annual Report for 2010-2011 remains subject to shareholder approval at this time
- Conversion rate of 1US\$=INR45 has been used at all places



Key Highlights

Commitment to Community and Environment



Overview

Largest Transmission Utility in India

- Carrying about ~50% of total power generated in India in FY10
 - 3rd largest transmission utility in the world¹

Growth linked to India's Energy Needs

- Increase in regulated asset base driven by:
 - Generation capacity addition
 - Grid strengthening

Stable Returns

 Low operational risk with limited exposure to general business cycles

Strong Execution Track Record

- Extensive experience & expertise in implementing transmission projects
- 86,186ckm of transmission lines and 138 No. of EHV substations as of 31st August 2011
- Rated consistently "EXCELLENT" against GOI MoUs since FY 1994

Other Businesses

- Consulting² in both Domestic and International markets and Telecom broadband businesses experiencing steady growth
- Unlocking value from leasing transmission towers to telecom infrastructure service provider

Transmission Lines 86,186 ckm

Sub-Stations 138 Nos. Transformation Capacity 95,125 MVA

System Availability > 99.9%

Telecom Network 20,600 km

± 800kV HVDC System Under Construction 1,200kV UHV AC System Under Development

Employees 9,784

Established National Grid IR capacity 23,800 MW

Total Income (FY 2010-11) \$2,022 million (Qtr ended Jun 30, 2011)

\$599 million

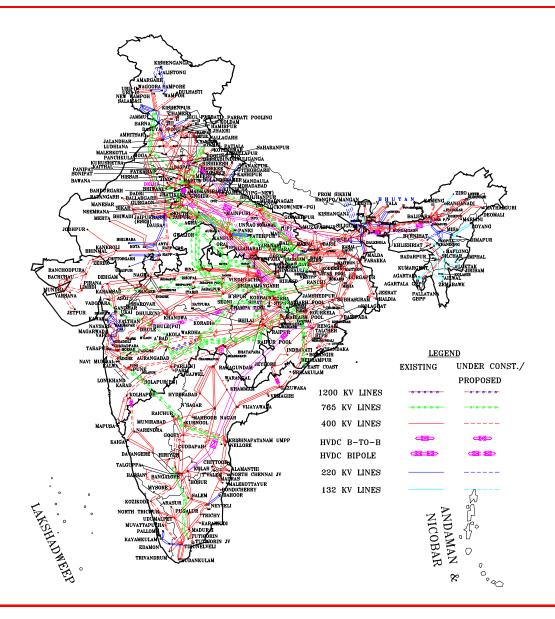
Net Profit (FY 2010-11) \$521 million (Qtr ended Jun 30, 2011) \$157 million

^{1.} Source: World Bank Report

^{2.} Consultancy in relation to Transmission, Load Despatch & Communication, Distribution & Telecom

Map of POWERGRID Network





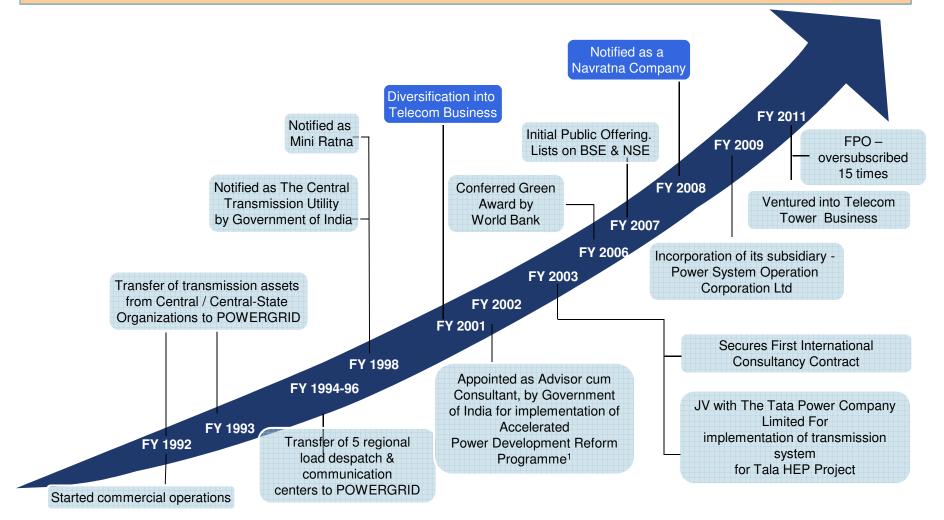
Note: Map not to scale

Evolution of Power Grid Corporation of India Limited



Mission

Establishment and Operation of Regional and National Power Grids to facilitate transfer of electric power within and across the regions with reliability, security and economy, on sound commercial principles



^{1.} Consultancy and Advisory on Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGYY) in rural areas.

Key Business Lines





Transmission

Development of Central Sector Transmission System

- Generation Linked
- Associated
 Transmission
 System for six
 Ultra Mega Power
 projects
- Grid Strengthening
- Inter-State, Interregional and International links

Grid Management¹

- Real-time Grid Operation
- Optimum scheduling & dispatch
- Energy accounting including settlements
- Administering REC²
 Mechanism for
 trading in Green
 Certificates

Consultancy (National & International)

- Provides in-house expertise in various facets of:
 - Transmission
 - Sub- transmission
 - Distribution
 - Telecom
- Provides services both nationally and internationally including SAARC countries

Telecom

- Owns & Operates Fibre optic cable network
 - Owns and operates more than 20,600 kms of telecom network
- Has acquired NLD, ISP and IP-I licenses to provide a variety of services
- Has entered into Infrastructure Sharing Agreement with Telecom Infrastructure Service Provider for using power line towers for mounting Telecom antennae

% of FY11 Revenue: 85%

% of FY11 Revenue: 3.3%

% of FY11 Revenue: 2.1%

^{1.} Power System Operation Corporation limited, a fully owned subsidiary of POWERGRID, as per Government of India Directive.

^{2.} Renewable Energy Certificates

Strategy





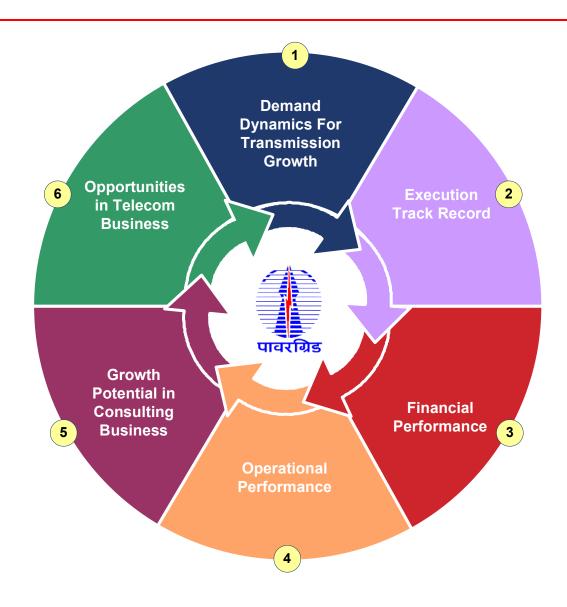


Key Highlights

Commitment to Community and Environment

Key Highlights





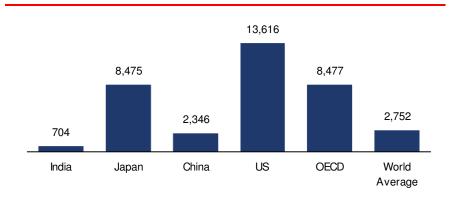


Positioned to Capitalize on India's Growing Energy Demand

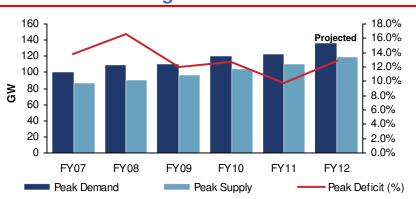


Power generation capacity is expected to grow at a rapid pace to address the massive supply-demand imbalance created by continued economic growth

Per Capita Consumption in India Remains Low (kWh)¹

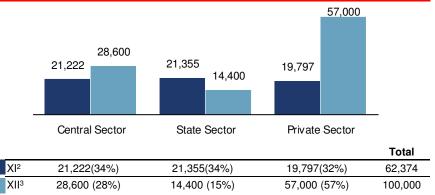


Significant Supply is Needed to Bridge the Imbalance



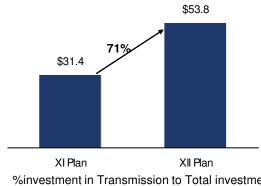
Major Plans for Capacity Addition (MW)....

....Driving Investment in Transmission Sector (US\$ in billions)



Source: Central Electricity Authority, Key World Energy Statistics, 2009 (IEA), Annual Report Ministry of Power (2009-2010) 1. As of 2007. Source: Key World Energy Statistics, 2009 (IEA). India as of Jan 2011

3. Provisional



%investment in Transmission to Total investment in Power Sector

XI Plan 13%

XII Plan 21%

^{2.} Revised target



Generation Trends Expected to Drive Demand for Long Transmission Lines



Dispersed Energy Capacity...

- Large pit-head stations concentrated in a few regions
- Hydro projects in North Eastern Region, Himachal Pradesh, Jammu & Kashmir
- Large imported coal based power projects along the coast
- Few load centre-based generation projects

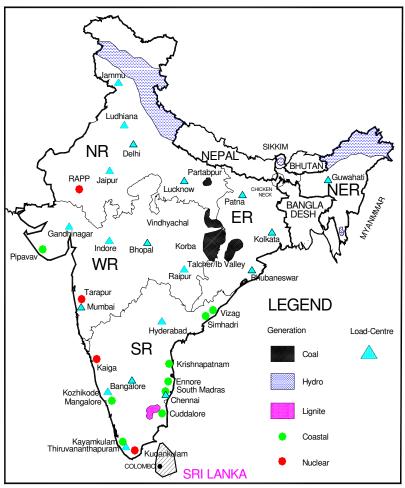
... Expected to Drive the Need For Transmission...

- Long Distance inter regional transmission system
- Higher capacity power lines to have economic as well as optimal use of Right-of-Way
- Eleven (11) High Capacity Transmission Corridors have been planned at an estimated cost of about US\$ 16illion

...With POWERGRID Well Positioned to Address the Demand

- 400kV established as backbone network (about 72,700 ckm out of total 86,186 ckm is at 400kV or +/-500kV HVDC level)
- 765kV network gradually increasing (about 3,000 ckm and one S/s already established and about 13,000 ckm and 22 S/s under construction)
- ± 800kV HVDC system-under construction
- 1200kV UHVAC under development. 1200kV Class transformer successfully tested. Single Circuit line under pilot project will be test charged by this year end.

Load Centers Are Far Away From Supply Centers



Note: Map not to scale

Strong Execution Track Record



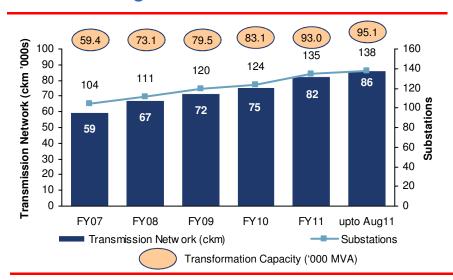
Execution Track Record

- Consistent successful execution of projects
 - 86,186 ckm of transmission lines carrying ~50% of total power generated in the country
 - 138 substations with transformation capacity of 95,125MVA
 - 20,600 km of telecom network

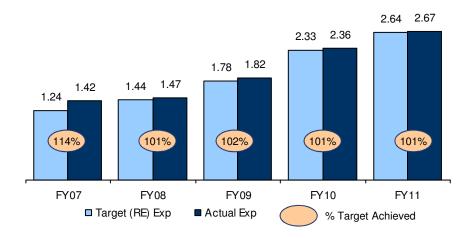
Accolades and Awards

- Rated consistently "EXCELLENT" against Govt MOUs since FY1994
- Consistent recipient of 'National Awards for Meritorious Performance" instituted by Gol
- Recognized by Platts, as 8th Fastest Growing Asian Energy Co. and 18th Fastest Growing Global Energy Company during 2010

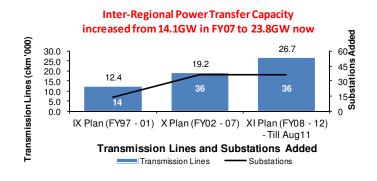
...Delivering Transmission Network Growth



Capex Targets Achieved... (US\$ in billions)



... leading to consistent Transmission Network Growth over years



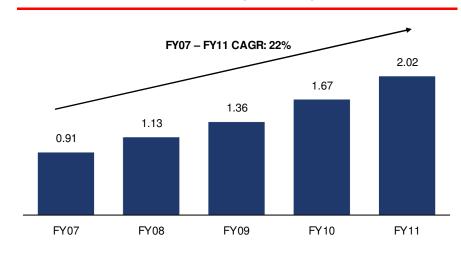
3

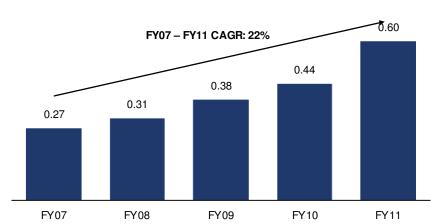
Compelling Historical Financial Performance





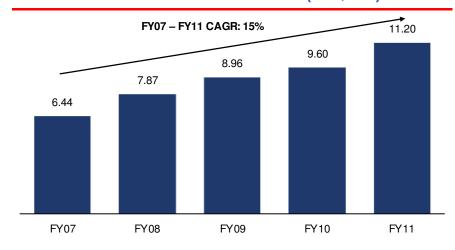
PAT (US\$ bn)





Gross Fixed Asset Base (US\$ bn)

.... has led to confidence of investors & lenders



- Successful and oversubscribed public offers in last 4 years - IPO in 2007 and FPO in 2010
- Listed on Indian Stock Exchanges, BSE and
 NSE, with a Market Cap¹ of US\$ 10bn
- Highest Domestic Credit Rating
- Amongst the biggest beneficiaries of The World Bank & ADB

1- considering 1US\$=Rs.45 and POWERGRID Share Price of INR95



3 Financial Performance



(In US\$ millions, except per share data)

Description	2010-11	2009-10	V a V
			Y-o-Y Growth
Income			
Transmission Charges	1,709	1,461	16.95%
Consultancy	66	60	11.15%
Telecom	42	35	18.35%
Short Term Open Access Income	47	28	69.60%
Other Income	158	84	89.10%
Total Income	2,022	1,668	21.27%
Profit After Tax (PAT)	599	454	32.14%
Earnings per Share (US\$)	0.137	0.107	27.63%
Book Value per Share (US\$)	1.025	0.840	21.98%
Gross Fixed Assets	11,189	9,600	16.55%
Debt	9,085	7,648	18.79%
Net Worth	4,745	3,536	34.16%
Return on Net Worth	12.63%	12.83%	
Debt Equity Ratio	65:35	68:32	
Capitalisation	1,625	802	102.58%
	1US\$=INR 45 , YOY Growth has been calculated based on INR figures		

POWERGRID - One Nation, One Grid



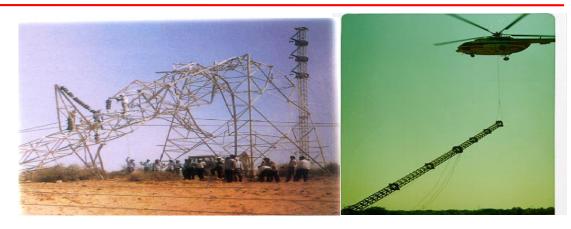
High Operational Efficiencies



- Rated as one of the best transmission companies in terms of system availability ¹
- No major grid disturbance since Jan'03
- Higher than targeted system availability facilitates incremental profit through incentives
- Establishing a 'National Transmission Asset Management Center ' for operation and control of sub-stations remotely at central place and through Maintenance Service Hubs.
- Implementing technologically advanced operational techniques like Live line maintenance using hotline maintenance equipment and ERS for the restoration of collapsed transmission lines
- Initiatives undertaken for aerial patrol of transmission lines by helicopters, Mobile substations and automated line inspection using robots

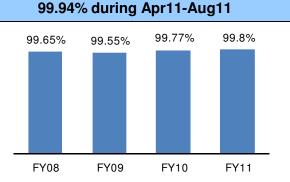
Modern Technology

Emergency Restoration System (ERS)



Insulator Cleaning with Helicopter

System Availability





^{1.} According to Booz & Company's comparative benchmarking across global transmission companies.

Growth Potential in Consulting Business



Description

एनटीपीसी NTPC





Consultancy Business – Domestic

- Bagged 45 new orders for projects worth US\$ 133 million for consultancy during FY10-11
- Power Grid has served >100 clients since beginning by giving consultancy
- Repeat orders from customers implies customer satisfaction







Major Clients



Consultancy Business -International

- Providing consultancy services in 7 countries namely Afghanistan, Bhutan, Bangladesh, UAE (Dubai), Nepal, Sri Lanka and Nigeria
- Venturing into Burma, Vietnam, China, Ethiopia, Uzbekistan etc.





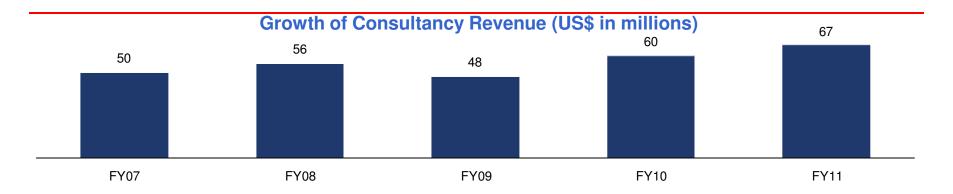














Opportunities In Telecom Business



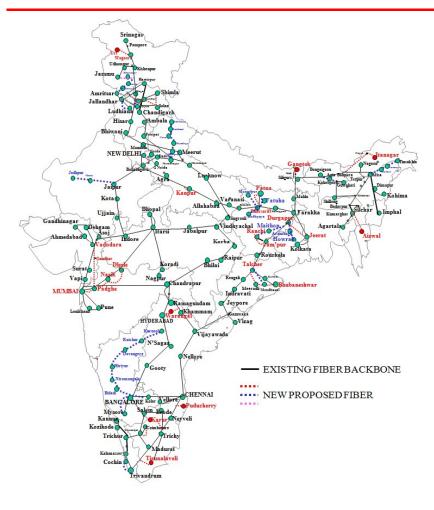
Telecom: Fiber Optic Busilness

- Network Coverage: Presently 20,600 km
 - Backbone 17.820 km (15.478 km overhead OPGW & 2.342 km Underground) with > 99.9% availability
 - Access Network 4,180 Km Underground
- Network Reach: All India; covering about 110 cities (including remote Areas of North Easter Region and Jammu & Kashmir)
- Faster Roll-out (~4 km in 2-3 days) & Live line installation
- Licenses: National Long Distance (NLD) and Internet Service Provider (ISP) and Infrastructure Provider (IP) Category - I
- Customer base: Major Telecoms, MNCs, BPOs, Govt, Corporate & Media
- Partner in implementation of 'National Knowledge Network' project of Govt. of India
- Involvement in becoming a part of National Optic Fiber Network (NOFN) project of Govt. of India

Telecom: Tower Leasing Business

■ Infrastructure Sharing Agreement with Telecom Infrastructure Service Provider for using power line towers for mounting Telecom antennae

POWERGRID Broadband Telecom Network



Map not to scale



Key Highlights

Commitment to Community and Environment

Commitment Towards Green Environment



Environment and Social Policy & Procedure (ESPP) based on principles of Avoidance, Minimization and Mitigation Certified to Social Accountability Standard (SA-8001: 2008)

Specially designed high- rise towers (75m) to reduce tree cutting

Application of Multi circuit and Compact towers to reduce corridor requirement

Total Forest involvement reduced after implementation of ESPP

Selected by The World Bank for Use of Country System (UCS)

Conferred "International Best Practices in Transmission" Award – World Bank

Conferred Green Award – 2006 by World Bank

POWERGRID became the first Public Sector Undertaking in Power Sector to come out with a Sustainability Report





Commitment to Community



- Besides addressing rehabilitation & resettlement issues and community development through ESPP, POWERGRID has formulated its 'Corporate Social Responsibility policy' (CSR Policy) which addresses:
 - Community Development in the neighborhood areas around its offices/ sub-stations
 - Socio-Economic issues at National level like employment, conservation and environment etc.
 - CSR Policy primarily showcases POWERGRID's abiding commitment and concern to pay back to society and environment for benefits it has reaped
 - For FY12, 1% of FY11 net profit earmarked for CSR activities

Corporate Social Responsibility

■ CSR initiatives in the Areas of:



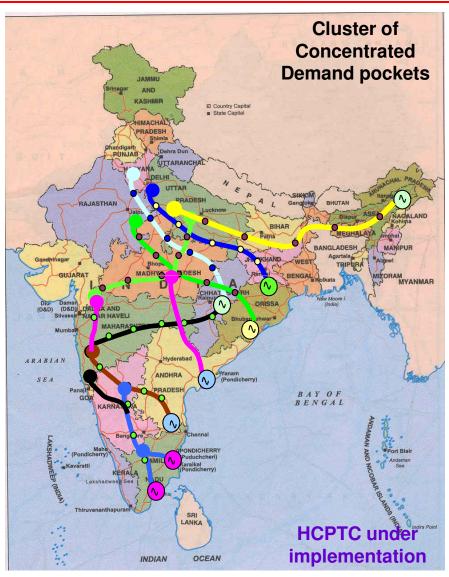


Key Highlights

Commitment to Community and Environment



- XI and XII Plan capacity addition targets of 62GW and 100GW respectively involving 32% and 57% participation by private sector
- Independent Power Producers (IPPs) setting up power generation plants, mainly in resource rich areas
- POWERGRID Nodal agency for granting Long Term Open Access (LTA) for inter-state transmission of power
- LTOA granted to 135 nos. of IPPs for about 90GW
- 11 nos. of High Capacity Power Transmission Corridors (HCPTC) (400kV/765kV AC and +/-800kV HVDC transmission highways) are being implemented
 - Regulatory approval for 9 corridors received
 - For balance 2, regulatory approval in process
- To be developed in phases matching with commissioning of the generation projects
- Estimated cost of corridors about US\$ 16 billion



Business Potential (contd.)

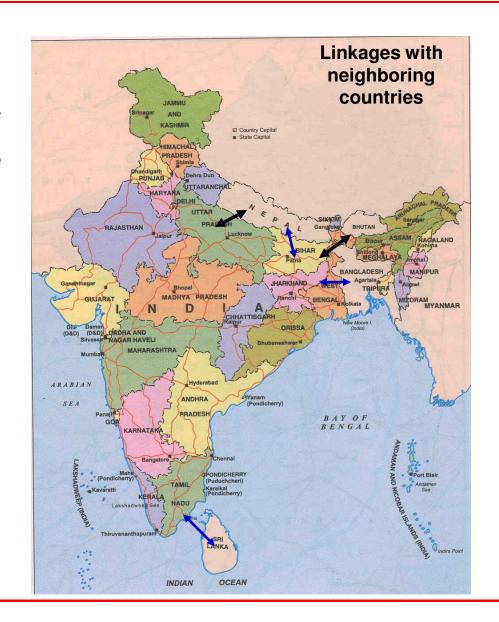


Emerging Regulatory Environment in India

- Tariff Based Bidding norms adopted in India from 5th Jan, 2011
- POWERGRID also participating in these biddings

Linkages with neighboring countries

- Taken initiative among SAARC member countries for optimizing the energy resources of the region
- Transmission links exist between Bhutan and Nepal
- 500MW HVDC interconnection is under implementation with Bangladesh
- Initiated steps to establish
 - Additional transmission links with Nepal & Bhutan
 - Establish an under-sea link to Sri Lanka





Thank You