

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 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 30 Sep 2012. 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.
- Annual Accounts for FY2011-12 have been approved by the shareholders.
- Conversion rate of 1US\$= ₹55 has been used throughout the presentation, unless otherwise stated.



Company Overview

Key Highlights

Investment Programme

New Initiatives



POWERGRID Today



Vísíon

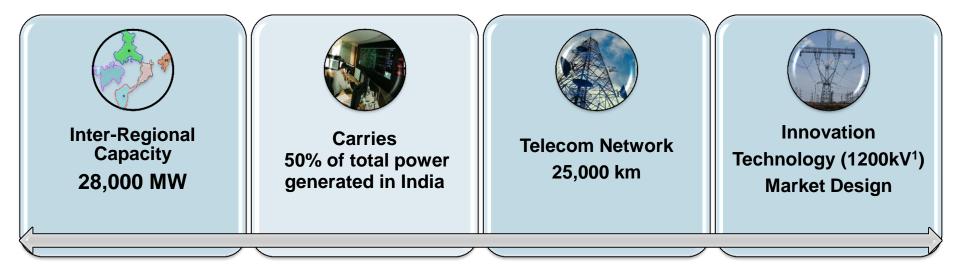
World Class, Integrated, Global Transmission Company With Dominant Leadership in Emerging Power Markets Ensuring Reliability, Safety and Economy



POWERGRID Today



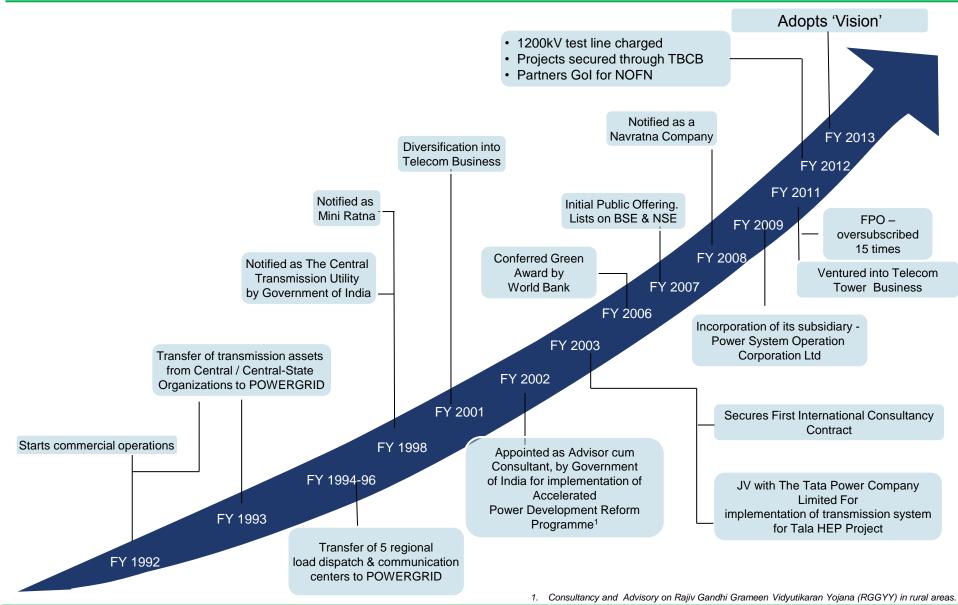




1- Highest transmission voltage level in the world

Long History & Rich Experience in Power Sector in India

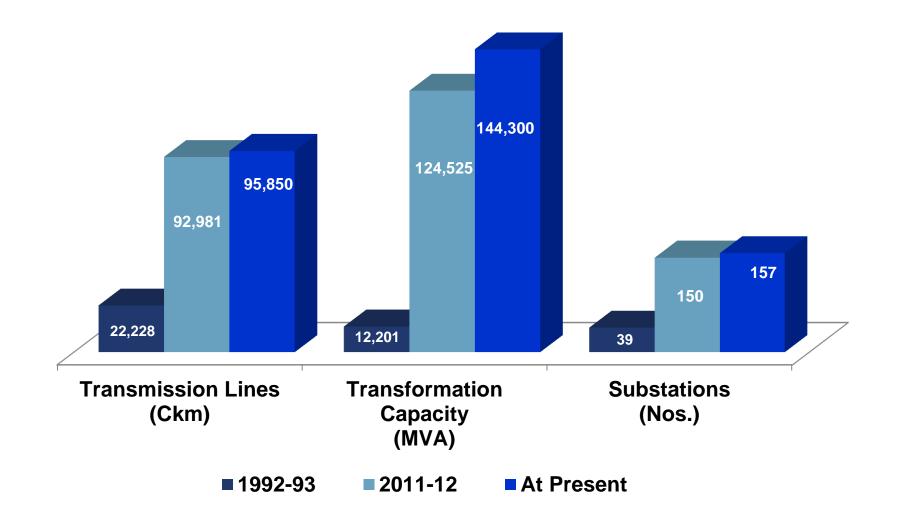




Physical Growth over past two decades

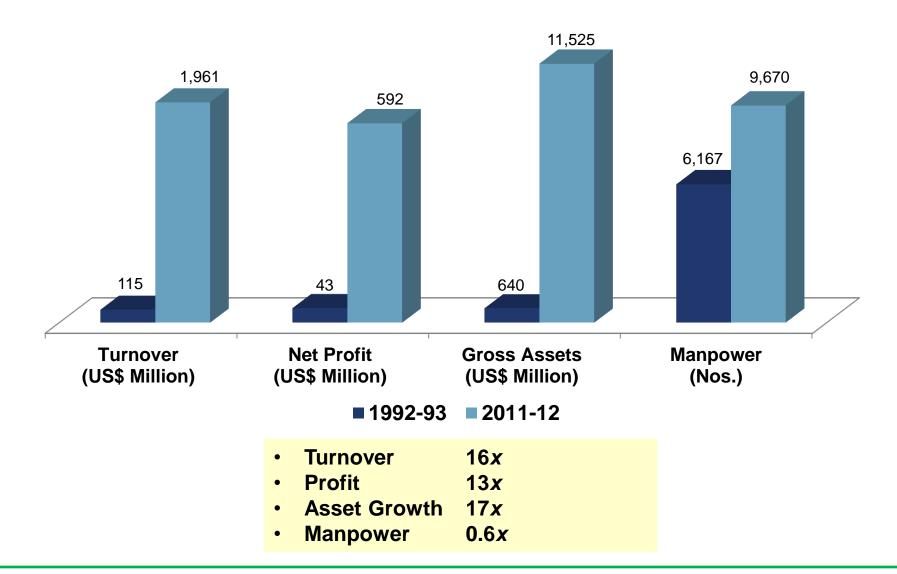


(As on 15.09.2012)



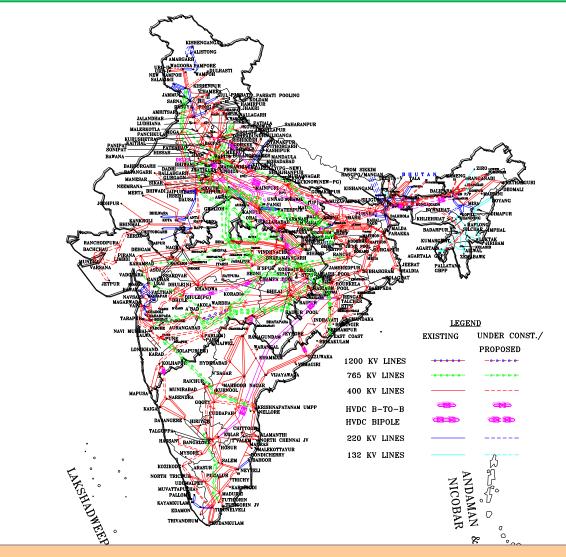
Financial Growth over past two decades





POWERGRID Network





The Central Transmission Utility and National/ Regional Grid Operator¹

1. Through Power System Operation Corporation Limited (POSOCO), a fully owned subsidiary of POWERGRID



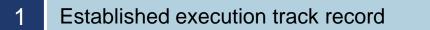
Company Overview

Key Highlights

Investment Programme

New Initiatives

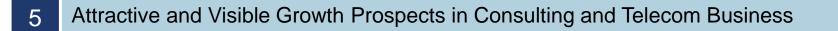




2 Proven Growth Track Record

3 Conservative Capital Structure

4 High Operational Efficiency



Established Execution Track Record



Execution Track Record

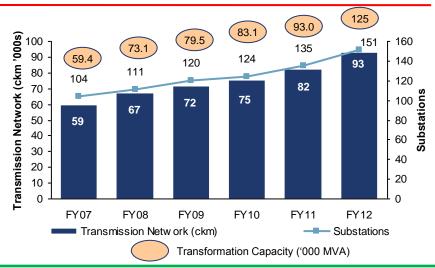
- Consistent successful execution of projects
 - 95,800 ckm of transmission lines carrying ~50% of total power generated in the country
 - 157 substations with transformation capacity of 144,000 MVA
 - 25,000 km of Telecom network

Accolades and Awards

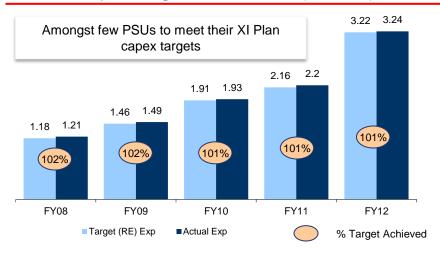
Rated consistently "EXCELLENT" against Govt MOUs since FY1994
 Consistent recipient of 'National Awards for Meritorious Performance"
 instituted by Gol

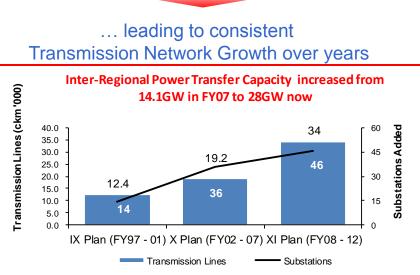
Recognized by Platts, as 8th Fastest Growing Asian Energy Co. and 18th Sastest Growing Global Energy Company during 2010

... Delivering Transmission Network Growth



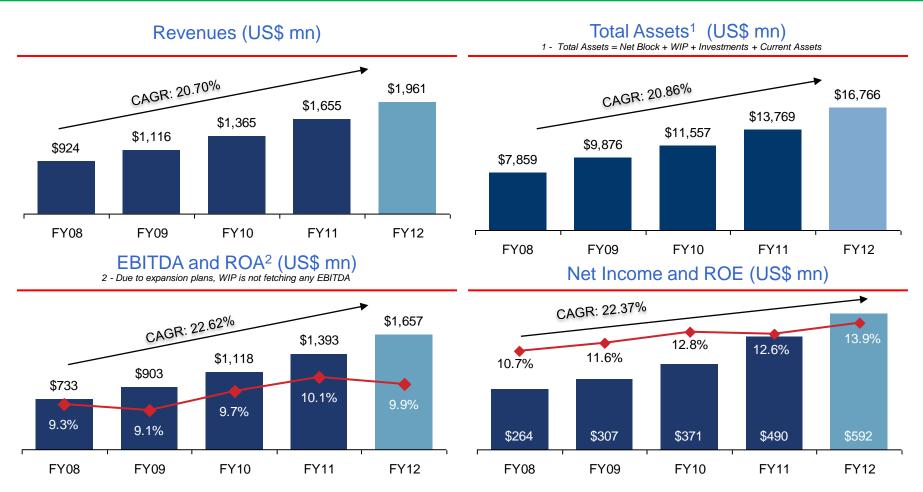
Capex Targets Achieved... (US\$ bn)





2 **Proven Growth Track Record**





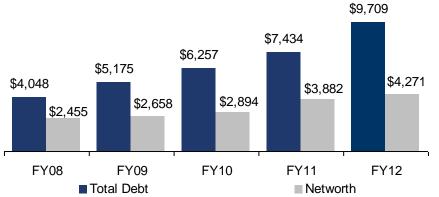
- Listed on Indian Stock Exchanges, BSE and NSE with oversubscribed public offers in last 5 years IPO in 2007 and FPO in 2010
- Highest Domestic Credit Rating
- Amongst the biggest beneficiaries of The World Bank & ADB

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

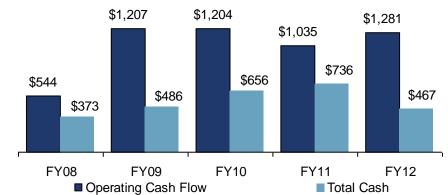
Note: Exchange rate of INR/US\$: 55 for all fiscal years and items.



Total Debt and Networth (US\$ mn)



Operating Cash Flow and Total Cash (US\$ mn)



Net Debt / EBITDA

EBITDA / Interest



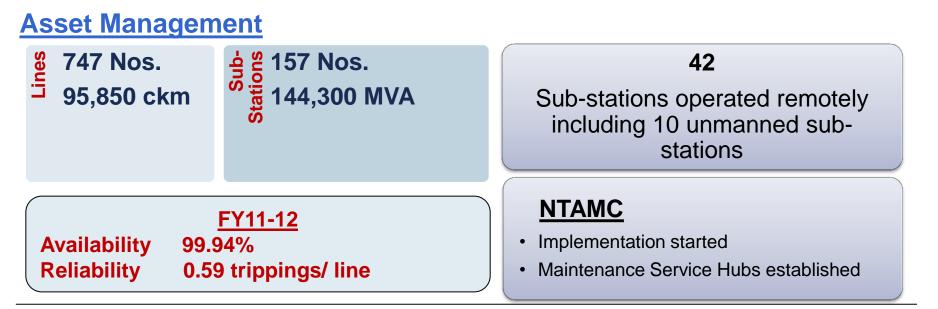
Note: Exchange rate of INR/US\$: 55 for all fiscal years and items.

One Nation, One Grid

4.6x

FY12





New Initiatives



Aerial Patrolling of Transmission Lines

- 800km stretch being undertaken
- Tender in process for another 15,000 km

Developed Repair Capabilities

- In-House repair facility for Transformer & Reactor established at Hyderabad
- On-Site Repair capability developed



116 Assignments for Projects worth USD 2.32 billion (balance cost) under execution

Major Projects

- Jharkhand Sub-transmission
- Smart Grid in Haryana & Chattisgarh
- OPGW network in J&K

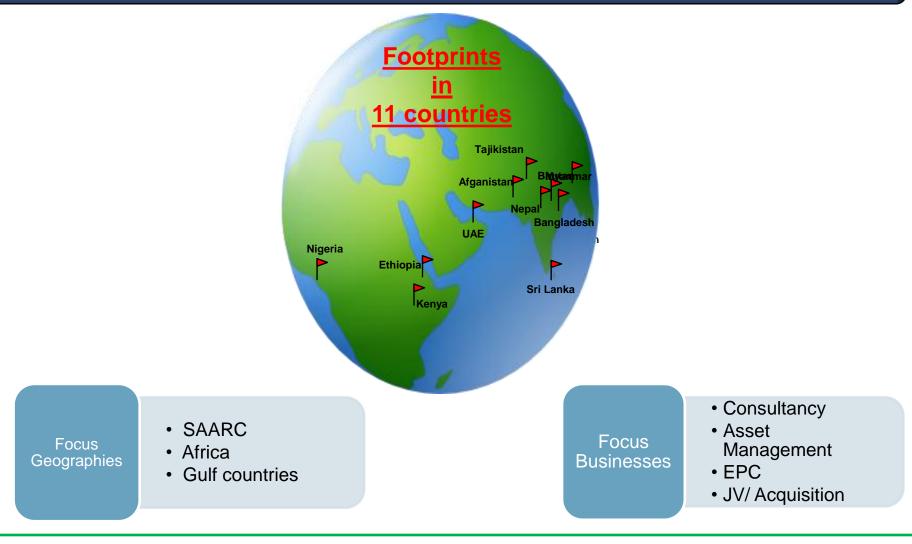
Major Clients include:

- Utilities in States/ UTs
- Central PSUs
- Central Govt. Organizations (Indian Navy, Railways)
- Private Utilities
- Companies in Private Sector

5 Growth Potential in Consulting Business



19 Assignments for Projects worth USD 500 mn (balance cost) under execution

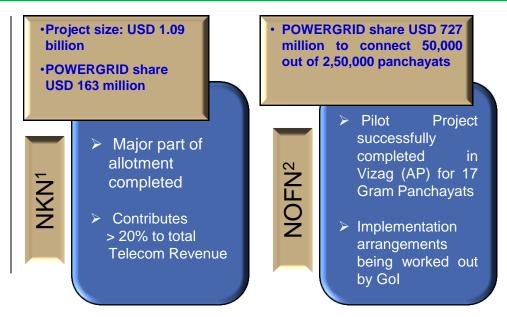


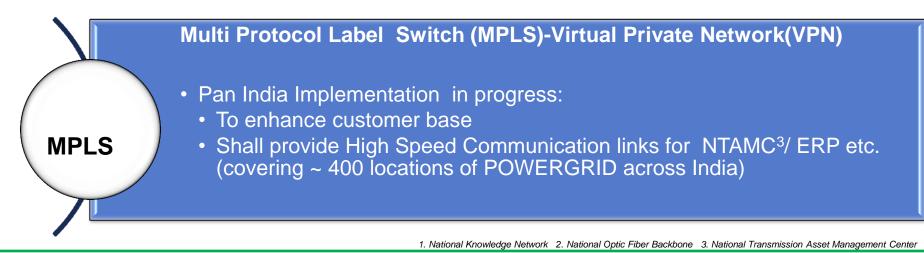
5 Growth Potential in Telecom Business



Network Coverage:

- o About 25,000 km
- Network Reach: All India; covering more than 200 cities (including remote Areas of North Easter Region and Jammu & Kashmir)
- Customer base: Major Telecoms, MNCs, BPOs, Govt, Corporate & Media
- Backbone availability 99.97%







Company Overview

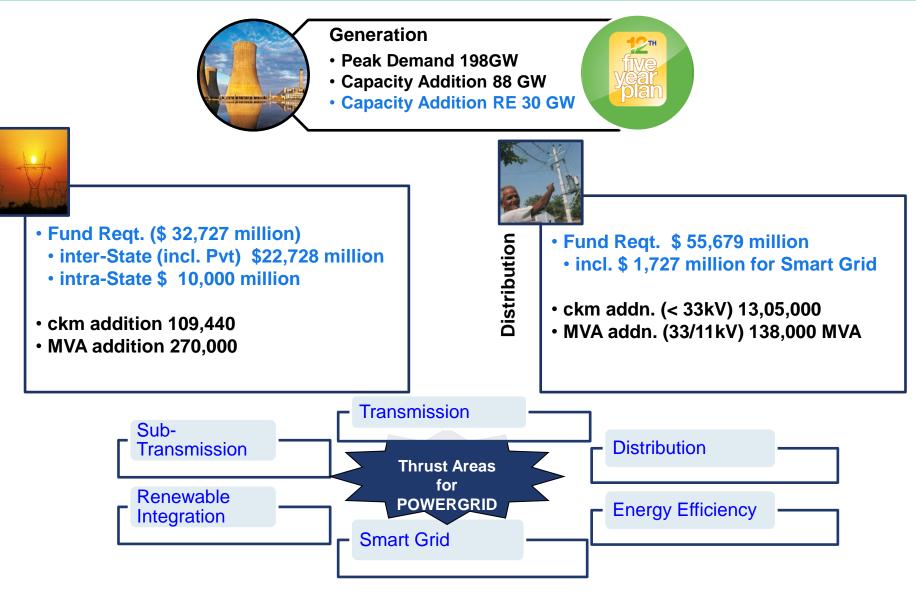
Key Highlights

Investment Programme

New Initiatives

Power Sector Overview – XII Plan





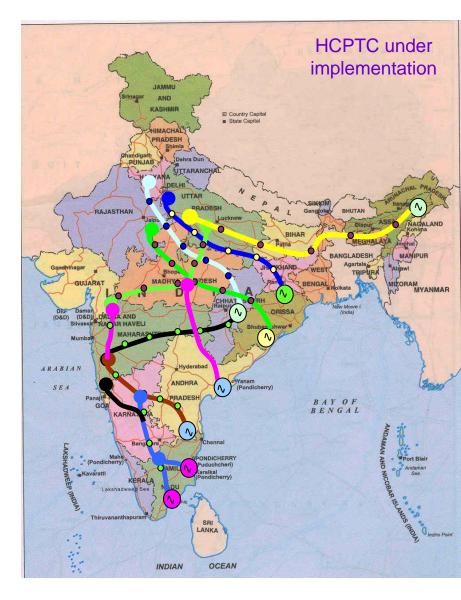
One Nation, One Grid

Transmission



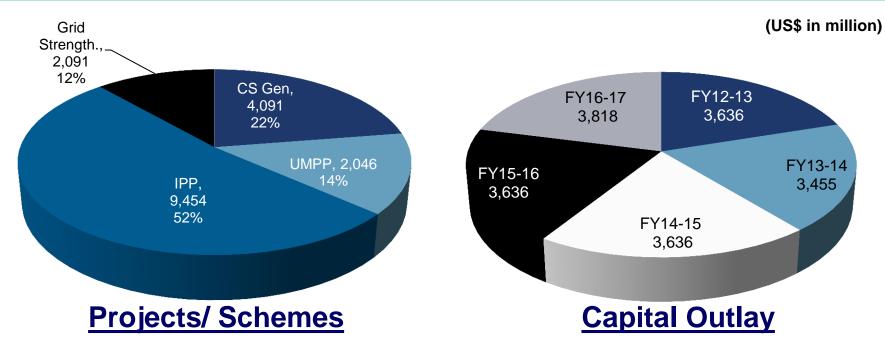
Road Ahead..... POWERGRID

- Total Projects in hand worth US\$ 22 billion
- Ongoing Projects: US\$16 billion
 Projects include
 - Development of 11 High Capacity Power Transmission Corridors (HCPTC) - US\$ 13.5 billion
- Transmission capacity addition by 2017
 - 24,000 ckm of 400 kV transmission lines
 - 13,000 ckm of 765kV transmission lines
 - +/- 800kV HVDC Bipoles
 - 90,000 MVA at 765kV
 - 30,000 MVA at 400kV

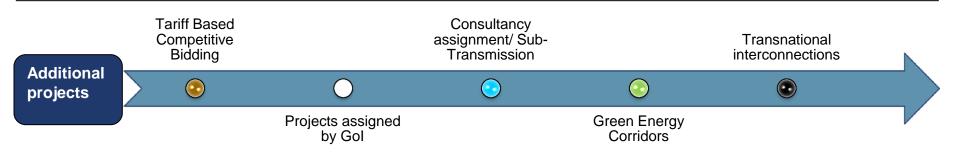


Investment for XII Plan



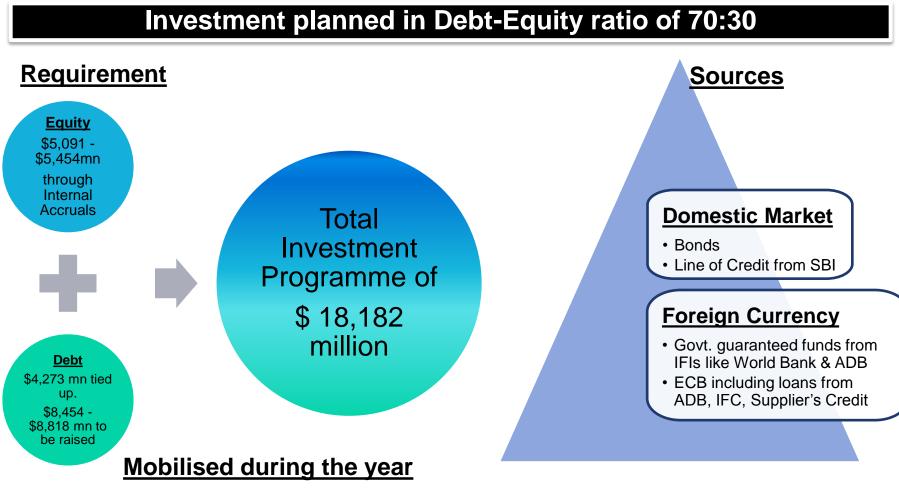


Investment Approved - \$15,273 million Contracts awarded for Project Cost: \$12,727 million



Funding for XII Plan





- Bonds from Domestic Market: \$727 million coupon 9.3%
- Foreign Currency Commercial Loan from IFC: US\$ 270 million

XII Plan Investment Progamme (Year-wise)



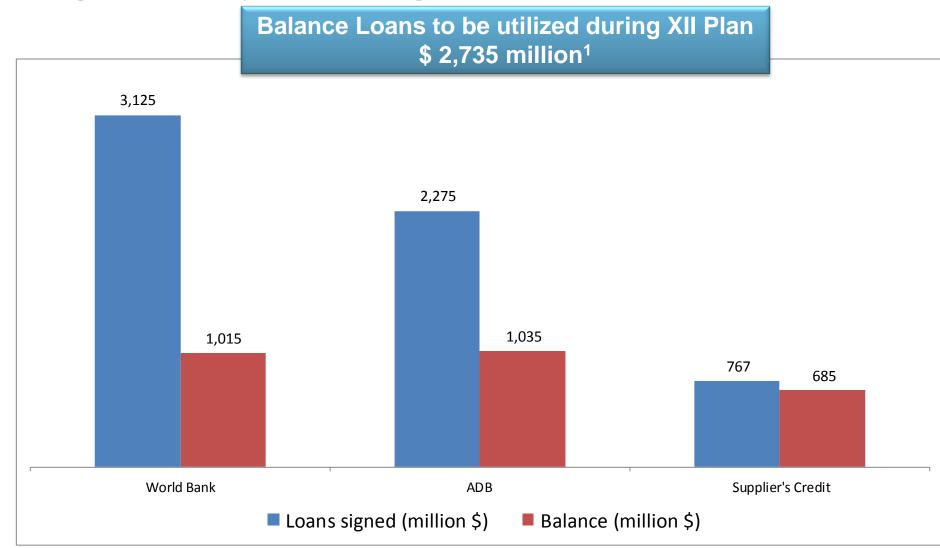
(US\$ in million)

Investment	FY13	FY14	FY15	FY16	FY17	Total
Capex	3,636	3,455	3,636	3,636	3,818	18,182
Debt Requirement	2,546	2,418	2,546	2,546	2,673	12,727
Already Tied Up	1,454	946	654	509	436	4,000
Domestic	909	182	182	182		1,454
Foreign	545	764	472	328	436	2,546
Balance to be tied up through Domestic/ ECB (*)	1,091	1,473	1,891	2,036	2,236	8,727

(*) The above figures are indicative and will depend on project execution, company's strategy for funding and market conditions.

पावरग्रिड

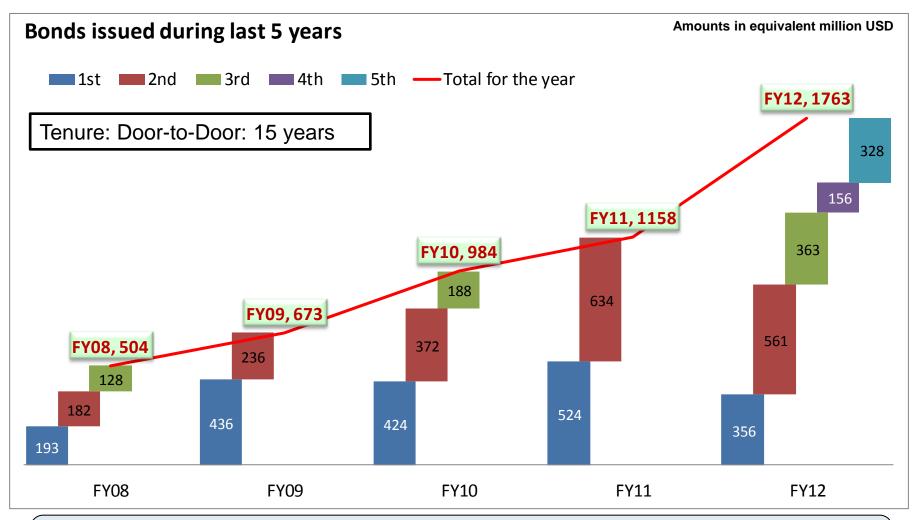
Foreign Currency Borrowings



1- Balance Loans as on 31st Mar, 2012

Domestic Borrowings – Bonds

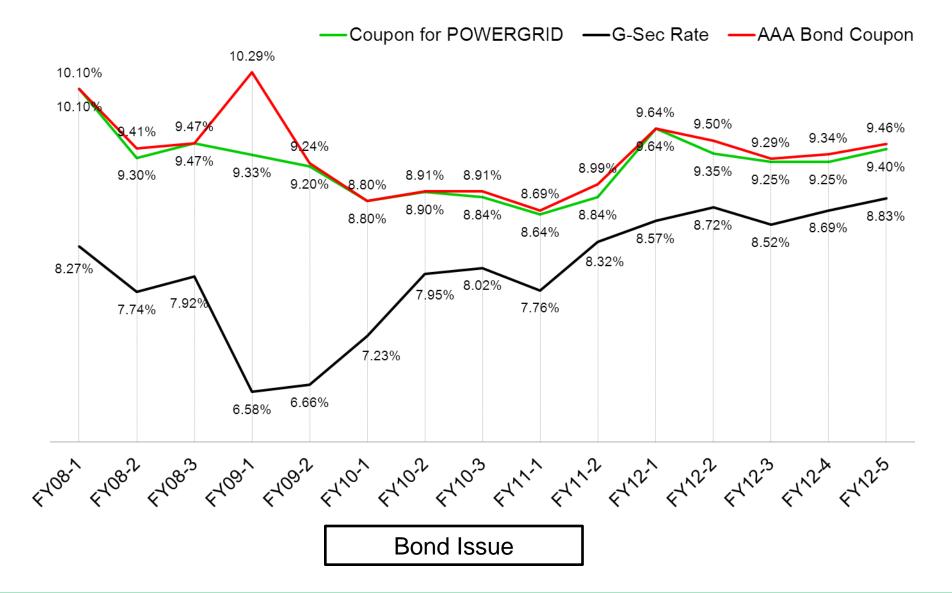




- FY13: 1st Bond Issue in June 2012:\$ 727 million @ 9.30%
- SBI Line of Credit for \$ 909 million tied up

Domestic Borrowings – Bonds (Coupon)







Company Overview

Key Highlights

Investment Programme

New Initiatives

Smart Grid/ City



Smart City (Puducherry)

- Work to commence in Aug'12 (interim arrangement)
- Phase-I expected by Sep'12 to demonstrate in limited area:
 - ✓ Advance Metering Infrastructure
 - ✓ Peak Load Management
 - ✓ Outage Management System

DPRs submitted

Firozabad (UP)/ Katra (J&K)

Pre-Feasibility Studies

Chitradurga (Karnataka)/ Tuticorin (TN)/ Gandhinagar (Jammu)/ Charar-e-Sharif , Gulmarg, Pahalgaon (J&K)/ Bidhuna & Shikohabad (UP)/ Puri (Odisha)/ District/cities of Tripura, Chhatisgarh, Haryana, Punjab

CPSUs <u>CPSUs in Steel & Coal Sector</u> have evinced interest for converting their establishments into <u>Smart establishments</u>



Smart Grid

 Unified Real Time Dynamic State Measurement (URTDSM) Techniques for efficient Grid Operation and Management integrating State Grid, ISTS, IPPs system

Green Energy Corridors-Grid Integration of Renewable Energy



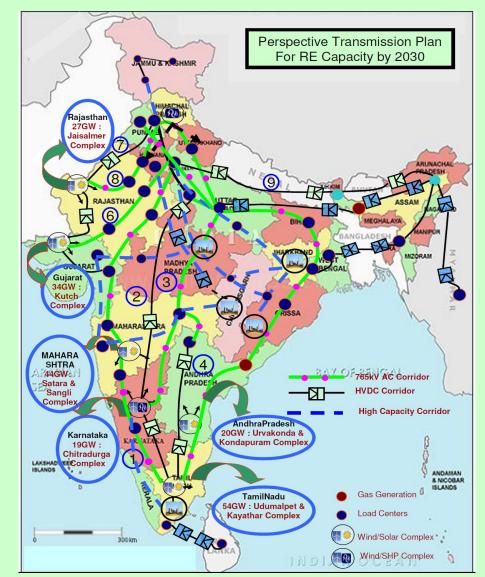
GREEN	ENERGY	CORRIDORS

Transmission Plan for Envisaged Renewable Capacity

\$ 7,636 million investment in transmission for 40 GW						
 Planning of intra-State/inter-State Transmission requirements 	Study Report on Green Energy Corridors					
• • Provide Mechanism to address Wind/Solar generation uncertainty	Submitted to MNRE/ CERC/ CEA/ Planning Commission/ MoP/ MoF					
Forecasting of generation	Inputs from- MNRE, Forum of Regulators, State Nodal Agencies, State Transmission					
Provision of flexible generations, reserves	Utilities and CERC					
Demand side Management	 Transmission System classified into: Connectivity Transmission System 					
Energy Storage	Intra-State Strengthening					
 Policy and Regulatory Framework 	 Inter-State Transmission System 					
Intra-State TS Strengthening: \$ 3,636 million	• Other associated works like Energy Storage, Real Time Monitoring System etc.					
Inter-State TS Strengthening: \$ 4,000 million	Establishment of Renewable Energy Management Center					

Green Energy Corridors-Grid Integration of Renewable Energy





Business Opportunities





Backward Integration

 Joint venture companies contemplated for manufacturing of material and equipment

JVs with States for intra-State Transmission



 Discussions under way with Bihar, Odisha, Jharkhand, Chhatisgarh, Manipur, UP, MP, Tamil Nadu, Karantaka

Distribution

- RGGVY and APDRP projects under XII Plan
- Management Control of DISCOMs



Energy Efficiency

• To tap Energy Efficiency Scheme spearheaded by BEE



R&M of T&D activities of CPSUs

- T&D activities : a non-core area for most CPSUs
- Dialogue initiated with CPSUs in Coal/Steel/Mining Sector
- Future Opportunities in Fertilizer & Petroleum Sectors, both for R&M and Project Consultancy for Sub-Stations



Thank You