

Q1 FY 2016-17

Press & Analysts' Meet

Mumbai August 17, 2016

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- Annual Accounts for FY2015-16 are yet to be approved by the shareholders.





Transmission – A Paradigm Shift

POWERGRID Today

- **Performance (Q1FY17)**
- Financial
- Operational
- **Performance (Q1FY17)**
- Consultancy
- Telecom

Projects in FY17

Investment Programme & Outlook

Investors' Response to Company's Growth

Recent Accolades





PARADIGM SHIFT

in Transmission

From Building Evacuation Systems
to
Market Enabler

ONE Nation Grid Frequency

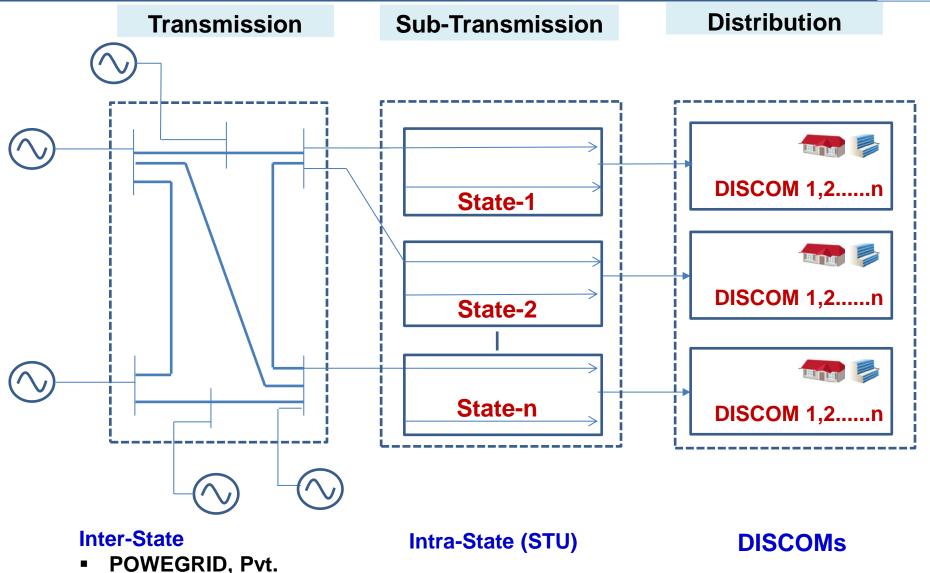
Hon'ble PM on Independence Day referred

- > Importance of Transmission
 - Expressed satisfaction over laying of 50,000 km of transmission lines
- ➤ One Nation One Grid One Price
 - Due to One Nation One Grid and availability of transmission, there is free flow of power from surplus to deficit zones



Power Delivery Chain







Few Intra-State

Need of Transmission

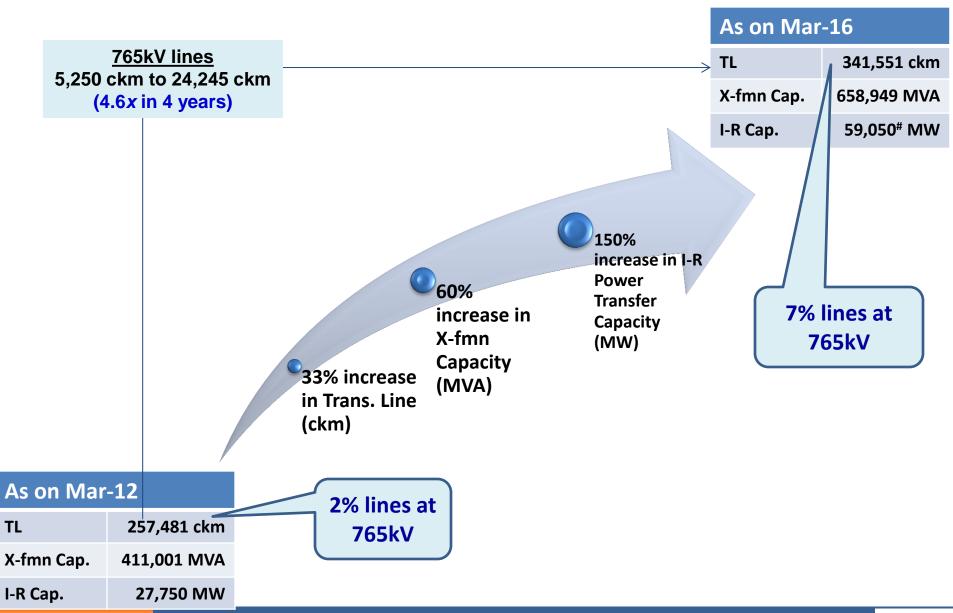


- Demand centers and sources of energy are polarised
 - Uneven disposition of primary energy resources coal (ER/Central India) & hydro (NER/NR)
 - Demand at far-off locations in WR/SR/NR
- Transportation of coal difficult & costly, especially Indian coal have 30-40% ash content
- Laying of rail infrastructure difficult than laying transmission
- Provide reliability
- > Integration of renewable energy sources
- Merchant power market
- > Access to cheaper power



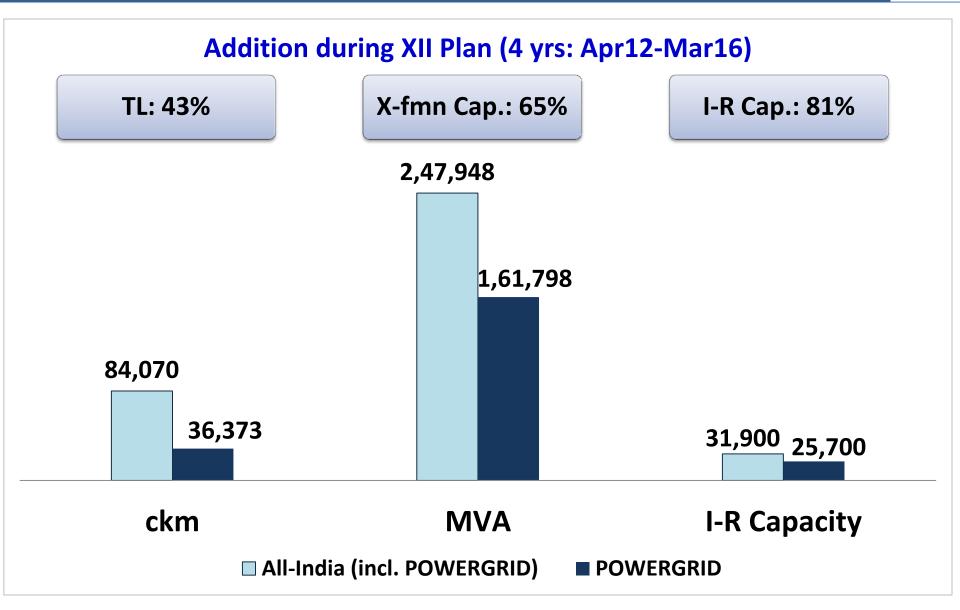
All-India Growth in Transmission - XII Plan (4 years)





POWERGRID role in Txn. Growth - XII Plan (4 years)





Trans. Growth – Enabling Cost Optimization



	FY12	FY16	Growth	CAGR
Generation (MU)	876,888	1,107,386	230,498	6.01%
I-R Energy Transfer (MU)	58,999	117,000	58,001	18.67%
I-R Energy Transfer as % of Generation	6.73%	10.57%		
STOA – Energy (MU)	66,987	98,000	31,013	9.98%
STOA (Energy) as % of Generation	7.64%	8.85%		

- ✓ I-R Power Transfer grew at ~19%
- ✓ Availability of Transmission encouraged enhanced market operations leading to reduced prices for buyers



Transmission- an Investment, not Cost



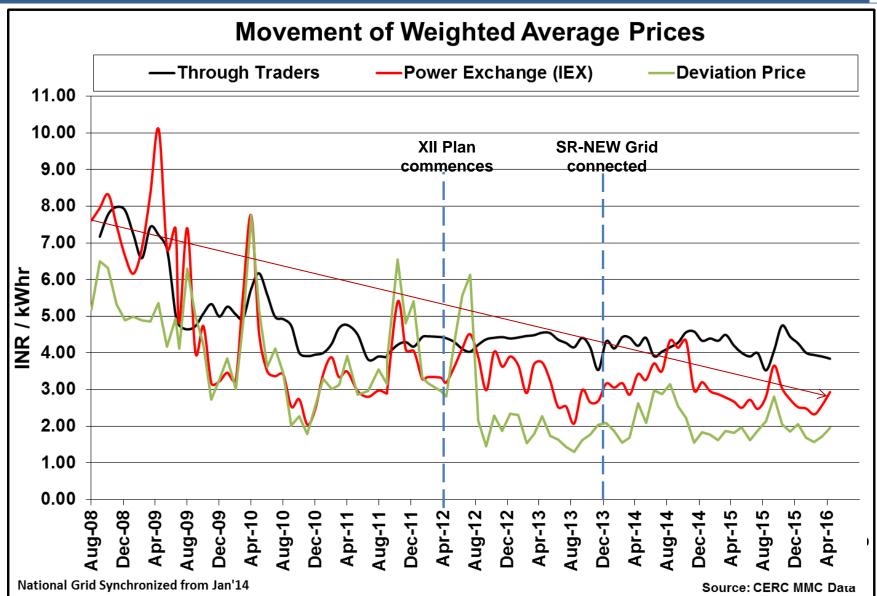
Transmission Growth has led to:

- Reduced power prices for buyers
 (Discoms, Distribution Open Access Customers)
- Net gains for Buyers even after buying power from distant sources and paying for transmission
- Cheaper power sourced from far away places, economically
- Consistent Reduction in congestion



Trans. Growth – Enabling Cost Optimization







Consistent Reduction in Congestion



	Total Electricity Generated (BU)	Electricity that could not be cleared due to congestion (BU)
FY14	967	5.59
FY15	1,048	3.14
FY16	1,107	2.16

Electricity that could not be cleared due to congestion as % of total electricity generated

FY14: 0.58%

FY15: 0.30%

FY16: 0.20%



Driver of Transmission: <u>A key enabler for vibrant electricity market</u>

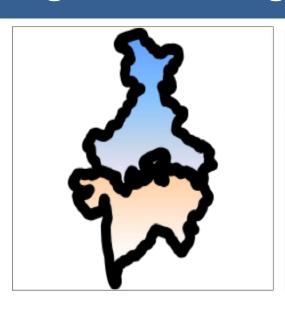


- > Continued momentum in Transmission Development
 - Rising need for flexibility in the grid
 - Optimal utilisation of uneven distribution of energy resources
 - About 20-21GW of excess capacity available lot of potential to access of cheaper power; demands Inter- regional links
 - Demand levellising



Congestion Management - Capacity Augmentation



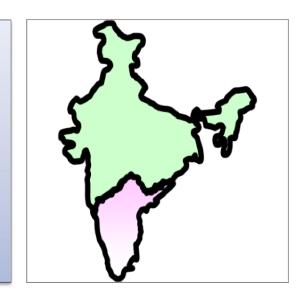


WR - NR

- Present: 7,900MW
- Envisaged by 2020: 20,000MW

NEW Grid – SR

- Present: 5,900 MW
- Envisaged by 2020: 18,400 MW

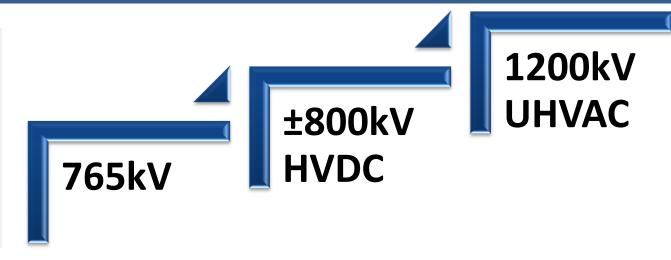




New Technology in Transmission



Adoption of Higher Voltages



STATCOM

Smart Grid (WAMS-PMU)

Reconductoring



Use of New Technology in Transmission





Use of Unmanned Aerial Vehicles (Drones)



Aerial Patrolling using Helicopters



Use of New Technology in Transmission





Hot Line Maintenance



Emergency
Restoration System
(ERS)





POWERGRID Today



POWERGRID Today



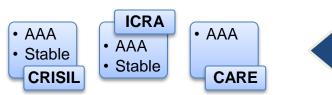
A '*NAVRATNA'* ENTERPRISE CENTRAL TRANSMISSION UTILITY LISTED COMPANY since 2007 GOVT. SHAREHOLDING 57.90% PAYING DIVIDEND SINCE 1993-94

Market Capitalization ₹ 92,887 crore¹

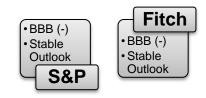
- √ >90% ISTS Transmission Network owned by POWERGRID
- ✓ Trans. Lines: 1055 Nos. 131,728 ckm

400kV & above: >90%

- ✓ Sub-stations: 213 Nos. 265,663 MVA
- ✓ State-of-the-art technologies like HVDC, SVC, FACTS etc.
- √ >45% power generated in India transmitted through POWERGRID







Physical parameters as on 31st July, 2016





Performance in Q1FY17 (Apr16-Jun16)



Performance- Financial (Q1FY17)



			(₹ in crore)
	Year ended	Quarter ended	
Description	31.03.2016 as per IGAAP	30.06.2015 As per Ind AS	30.06.2016 As per Ind AS
Revenue			
- Transmission Charges	19,945	4,513	5,889
- Consultancy Income: Services	465	89	120
- Telecom	392	88	111
- Other Income	479	103	139
Total Income	21,281	4,793	6,259
Operating Expenses (including prior period adjustment)	2,456	555	700
EBITDA-Gross Margin	18,825	4,238	5,559
Depreciation	6,183	1,378	1,757
Interest	5,023	1,142	1,518
Tax	1,592	362	482
Profit after Tax	6,027	1,356	1,802
Other Comprehensive Income/ (Exp) – net of Tax		(13)	17
Total Comprehensive Income	6,027	1,343	1,819

Growth in Income: 31%

Growth in Profit After Tax: 33%



Performance – Financial (Q1FY17)



			(₹ in crore)
	As on 31.03.2016 As Per IGAAP	As on 30.06.2015 As per Ind AS	As on 30.06.2016 As per Ind AS
Gross Fixed Assets	1,50,052	1,22,578	1,52,249
Capital Work-in-Progress	46,830	56,878	48,831
Debt	1,06,321	99,412	1,09,789
Net Worth	42,598	40,408	45,470
Earning Per Share (₹)	11.52	2.59#	3.44#
Book Value per Share (₹)	81.43	77.24	86.91
Key Financial Ratios			
Debt : Equity	71:29	71:29	71:29
Return on Net Worth	14.15%	3.36%#	3.96%#

Not Annualized



Performance - Financial (Billing & Realization)



As on 30.06.2016

Total Outstanding:

~ ₹ 3,718 crore (53 days billing#)

Billed but not outstanding (<60 days allowed as per CERC)

~ ₹ 3,199 crore (46 days billing#)

Transmission Outstanding (beyond 60 days)

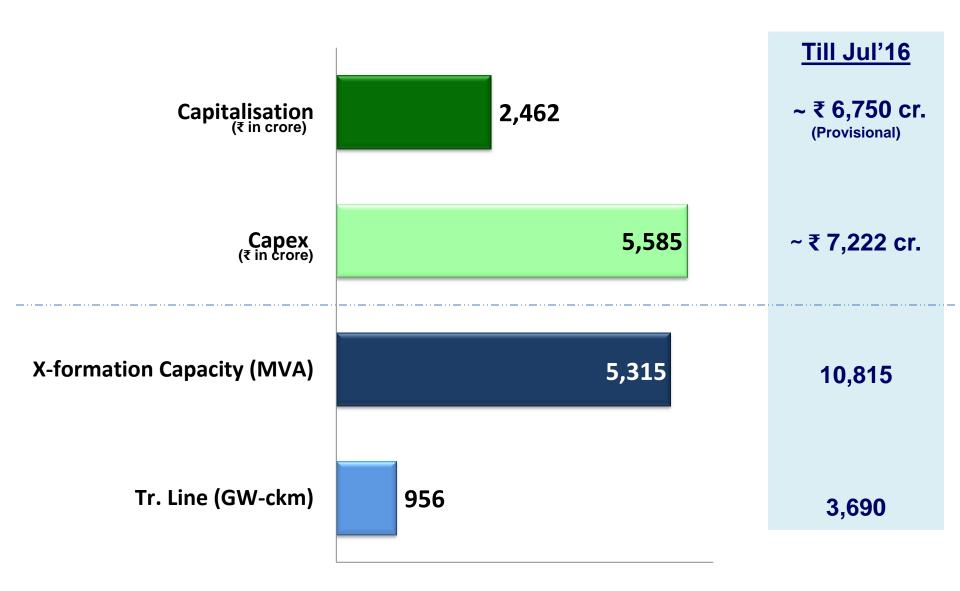
~ ₹ 519 crore (7 days billing#)

Avg. Monthly Billing: ₹ 2,097 => 2 months 60 days) billing = ₹ 4,194 crore



Performance – Project Execution (Q1FY17)

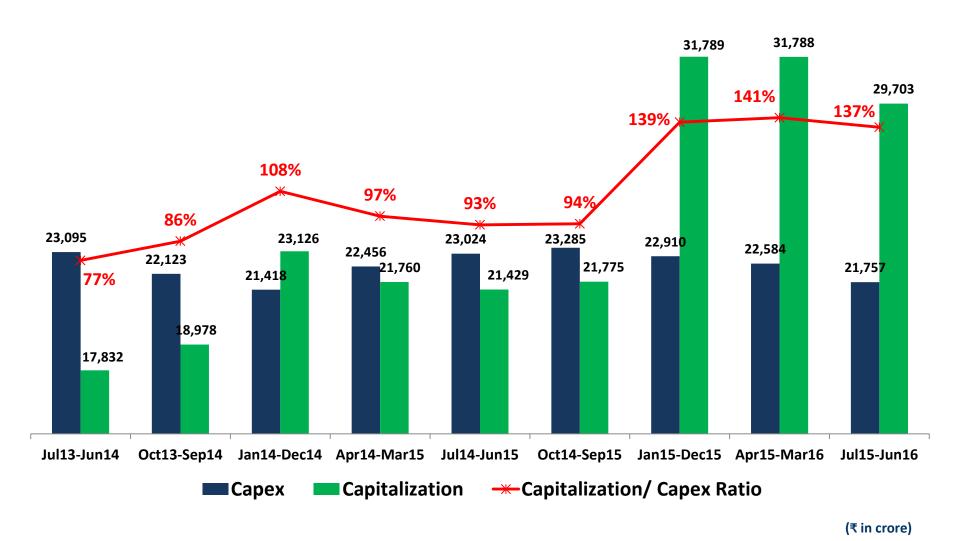






Project Execution-Increasing Capitalization, consistently







Projects in FY17



Transmission Lines

15,000 GW-ckm



Major Lines

- L. Gaya-Varanasi, Varanasi-Kanpur-Jhatikara
- 2. Ranchi-Chandwa-Gaya
- 3. Pachkula-Patiala; Sikar-Jaipur
- 4. Roorkee-Saharanpur, Dehradun-Baghpat, Dehradun-Abdullapur
- 5. Aurangabad-Boisar; Navsari-Boisar; Kala-Kudus
- 6. Raipur PS Wardha(2nd line), Wardha-Aurangabad
- 7. Pasighat Roing Tezu Namsai
- 8. ±800kV Champa-Kurukshetra HVDC
- 9. Aurangabad-Padghe
- 10. Mauda-Betul-Khandwa-Indore
- 11. Wardha-Aurangabad (1200kV tower)
- 12. Tiurnelveli-Tuticorin; Tuticorin-Salem-Madhugiri; Salem-Somnahalli; Madhugiri-Yelhanka
- 13. Jabalpur-Orai-Aligarh
- 14. Wardha-Nizamabad-Hyderabad
- 15. Angul-Srikakulam;
- 16. Dulhasti-Kishenpur-New Wanpoh
- 17. Rajarhat-Purnea
- 18. Singrauli-Allhabad-Kanpur; Lucknow-Kanpur
- 19. LILOs- Pandiabil (Baripada-Mendhasal); Navi Mumbai (Lonikhand-Kalwa); NP Kunta (Kadapa-Kolar; Kadapa-Hindupur)

Sub-Stations

20 Nos.



Sub-stations

- 1. NP Kunta
- 2. Pandiabil (GIS)
- 3. Saharanpur
- 4. Bagpat (GIS)
- 5. Chandwa (GIS)
- 6. Kanpur (GIS)
- 7. Salem (Dharmapuri)
- 8. Navi Mumbai (GIS)
- 9. Rajarhat (GIS)
- 10. Dehradun
- 11. Betul (GIS)
- 12. Vemagiri (GIS)
- 13. Srikakulam (GIS)
- 14. Nizamabad
- 15. Roing
- 16. Tezu
- 17. Namsai
- 18. Alipurduar HVDC
- 19. Champa HVDC
- 20. Kurukshetra HVDC

Inter-Regional Capacity

12,300 MW



Inter-Regional

- 1. Gaya-Varanasi
- 2. Champa-Kurukshetra
- 3. Angul-Srikakulam-Vemagiri
- 4. Raipur-Wardha-Nizamabad-Hyderabad
- 5. Biswanath Chariyali-Alipurduar-Agra Pole-II, Pole-III, Pole-IV

Initially envisaged as part of HVDC

Green font indicates assets commissioned in FY17 (till Jul-16)



Status of TBCB Projects (upto Jun'16)



SPV & Date of Incorporation	Completion	Current Status
POWERGRID Vizag Trans. Ltd.	Aug-16	1 st element commissioned in Dec-15. Construction under Progress
POWERGRID Unchahar Trans. Ltd.	Sep-16	Construction under Progress
POWERGRID NM Trans. Ltd.	Oct-16	Construction under Progress
POWERGRID Kala Amb Trans. Ltd.	Jul-17	Construction under Progress
POWERGRID Warora Trans. Ltd.	Nov-17	Construction under Progress
POWERGRID Parli Trans. Ltd.	Jan-18	Construction under Progress
POWERGRID Jabalpur Trans. Ltd.	Jul-18	Construction under Progress
POWERGRID Southern I/C Trans. Ltd.	Apr-19	Construction under Progress
POWERGRID Vemagiri Trans. Ltd.		Project discontinued

Operations – Q1FY17



Assets as on Jun-16

• Trans. Lines : 1046 Nos. - 130,197 ckm

• Sub-stations : 211 Nos. - 260,123 MVA (120 sub-stations remotely operated)

Performance during Q1FY17

Availability: 99.78%

Reliability: 0.215 Trippings/ line



Grid Management¹ – Q1FY17 (Apr16-Jun16)



I-R Energy Transfer 31.14 BU

28% increase w.r.t. Q1FY16

Cross-Border
Power
Exchange

2.6 BU

Bhutan: Import ~1 BU

Nepal: Export: ~0.5 BU

Bangladesh: Export ~1.1 BU

Myanmar: Export (0.0006 BU)

Source: NLDC Report Jun'16

STOA

Energy Txn.: 24.73 BU

8% increase w.r.t Q1FY16

No. of Txns. 13,451

21% increase w.r.t Q1FY16

Source: NLDC Report Jun'16



Consultancy (Domestic) – Q1FY17



New Orders recd.: 10

Major Orders
 Smart Grid related assignments in
 Ahmedabad (Sub Divn.: Naroda) & Gurgaon
 (Sub Divn.: DLF)

Assignments in Hand: 117 Nos. (~ ₹ 19,000 cr.- Bal.

Cost)

- Major Assignments
 - NER PSIP; T&D System Strengthening in Sikkim-Arunachal; TS to Leh-Kargil; Lalitpur TPP Evacuation; IPDS at Old Kashi

Orders under Development

Assignments from Railways, Tamil Nadu;
 Bihar



Consultancy (International) – Q1FY17



Footprints in 18 countries

13 nos.

Ongoing Assignments (as on Jun-16)

1 no.

New Order recd.

- From Bhutan for Distribution Management System

9 nos.

Eols/ Techno-commercial proposals submitted

- Myanmar, Bangladesh, Kenya, <u>Uganda</u>, <u>Georgia</u>, <u>Liberia</u>

Recent highlight - Participation in EPC commences



Telecom – Q1FY17



43 New Clients added

[(Pvt. (28), Govt(15)]

Total Order Book > ₹ 2200 crore

Infrastructure:

■ Fiber Optic Network : ~ 36,500km

Points of Presence : 595

Backbone Availability : 100%

Major Projects:

- National Knowledge Network (NKN): Project completed & Under Operation
- National Optic Fiber Backbone (NOFN): Work in progress
 - ✓ Scope of work enhanced to connect 9,372 Gram Panchayats -4,743 Gram Panchayats connected





Investment Programme & Outlook



Investment Programme (Apr12-Mar17)



Planned Capital Outlay*

Annual Capex Plan

[*Projects: Ongoing Projects; Tariff Based Bidding Projects; Projects assigned by Gol; Green Energy Corridors; Intra-State Projects; Transnational Interconnections]

₹ 110,000 crore

FY12-13:

₹20,037

cr.

(Achieved)

FY13-14:

₹23,158

cr.

(Achieved)

FY14-15:

₹ 22,456

cr.

(Achieved)

FY15-16:

₹ 22,584

cr.

(Achieved)

FY16-17:

₹22,550

cr.

[Achieved

₹ 5,585 cr.]

More than ₹ 93,820 crore achieved in XII Plan (Apr12 till Jun16)

Contracts awarded

~ ₹ 11,433 crore in Q1FY17

Investments Approved

~ ₹ 22,874 crore in Q1FY17



POWERGRID Outlook (as on Jul'16)



Ongoing Projects	approx. ₹ 1,13,000 crore
New Projects	approx. ₹ 15,000 crore
TBCB Projects	approx. ₹ 16,000 crore (as per Empowered Committee Estimate)

Total Works in Hand: ₹ 1,44,000 crore (approx.)





Investors' Response to to Company's Growth



POWERGRID Stock Price





Current Price#

₹ 85-90 per share



₹ 176.25 - 183.05 per share

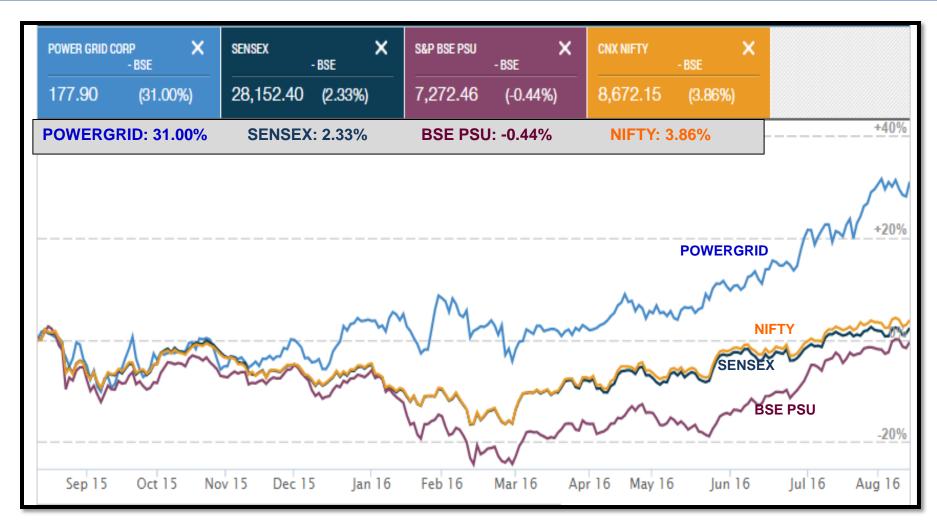
More than doubled since 2nd FPO

Price range of POWERGRID Stock on 16.08.2016 in BSE



.... For the past 1 year...





One year Relative Performance of POWERGRID Stock as compared to SENSEX, BSE PSU and NIFTY



.... For the past 5 years...





Five years Relative Performance of POWERGRID Stock as compared to SENSEX, BSE PSU and NIFTY





Recent Accolades



Recent Accolades

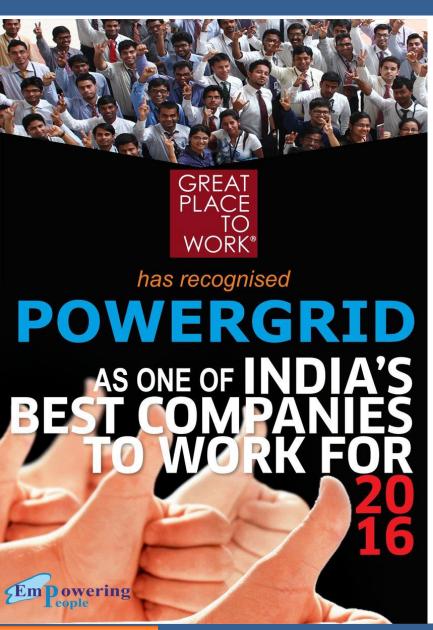




'Best PSU Pavilion' Award to POWERGRID Pavilion at International Industrial Trade Fair, INNOPROM 2016, held at Russia in Jul'16

Recent Accolades





For the 1st time,
POWERGRID makes it
to the prestigious list of
'Great Place to Work'



Thank Gow

