

#### **POWER GRID CORPORATION OF INDIA LIMITED**

### Q3 FY 2015-16 Press & Analysts' Meet

#### Mumbai

January 28, 2016

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### **POWERGRID Today**

### **Performance during FY16 (9 months)**

- Financial
- Physical
- Operations
- Grid Management
- Other Businesses Consultancy & Telecom

#### **Renewable & SAARC**

#### **Investment & Funding Programme**









## **NER - Agra HVDC Interconnection Pole I**

## **Commercial Operation from Nov.1, 2015**

- World's longest (1750km) multi-terminal ±800kV HVDC
- Passes through 4 States: Assam, WB, Bihar, UP
- Crossing more than 40 rivers
- Ultimate Capacity: 6000 MW Planned to facilitate harnessing hydro-potential in NER & Bhutan





## 1<sup>st</sup> Line under TBCB Successfully Charged

400kV D/C Khammam – Nagarjunasagar	
On Time	Within Cost

✓ Traverses ~150km through Telangana & Andhra Pradesh

- Part of TS for 'System Strengthening in Southern Region for import of Power from Eastern Region'
- ✓ To facilitate inter-State exchange of power in SR







• 2<sup>nd</sup> Interconnection completed







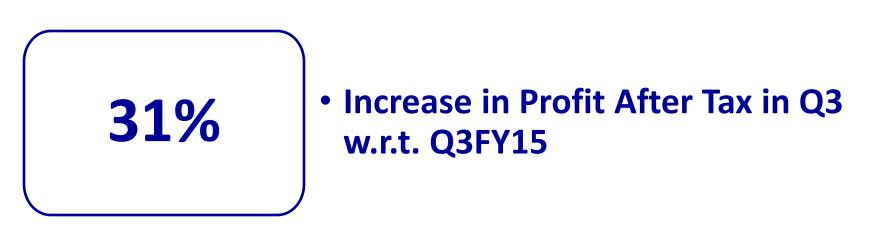
- Worth works capitalized in Q3
- Highest-ever Quarterly Capitalization



Total Capitalization during FY16 (till Dec-15)











### **Global Recognition**

As per Platts Top 250 Global Energy Company Rankings 2015 & 2014

# Fastest Growing Electric Utility in Asia for second successive year

Only Indian CPSE among World's Fastest Growing Energy Companies in 2015

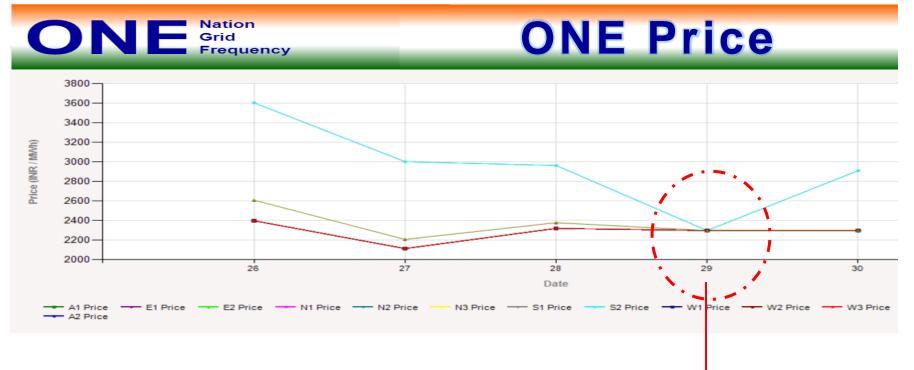
Other Recognitions CBIP Award Best Performing Transmission Utility India Today PSU Awards-

• Best Performing Navratna

• Most Valuable Navratna Rajiv Gandhi National Quality Award







Daily prices are simple average of non-zero prices in (24\*4) no of 15 minutes time block of respective day.

Dec. 29, 2015

Date: 26-12-2015 To 30-12-2015 Date A1 A2 E1 E2 N1 N2 **S1** S2 W1 W2 W3 MCP N<sub>3</sub> 26-12-2015 2400.66 2400.66 2400.66 2400.66 2400.66 2400.66 2400.66 3606.12 3606.12 2400.66 2400.66 2400.66 2610.86 27-12-2015 2116.29 2116.29 2116.29 2116.29 2116.29 216.29 2116.29 2116.29 2116.29 2209.99 2116.29 3004.03 3004.03 28-12-2015 2322.31 2322.31 2322.31 2322.31 2322.31 2322.31 2322.31 2964.77 2964.77 2322.31 2322.31 2322.31 2380.63 29-12-2015 2300.04 2300.04 2300.04 2300.04 2300.04 2300.04 2300.04 2300.04 2300.04 2300.04 2300.04 2300.04 2300.04 30-12-2015 2300.23 2300.23 2300.23 2300.23 2300.23 2300.23 2300.23 2912.73 2912.73 2300.23 2300.23 2300.23 2301.84

Avg. Market Clearing Price in ₹ /MWh: ₹ 2.30

**ONE** Nation Grid Frequency Source: India Energy Exchange



### **Providing Support during Natural Calamities**



- > Support extended for restoration of:
  - 400kV line (1 No.) & 230kV lines (2 Nos.) including evacuation lines from Kalpakkam Nuclear Power Plant & North Chennai TPS
- 20mbps dedicate bandwidth extended to MLDC



Earthquake in Manipur (4-Jan, 2016) • Support to Manipur to restore Power Supply

- Power situation turned critical
- Support extended for restoration works
- Local grid restored within few hours





# POWERGRID Today



## **POWERGRID Today**





- ✓ >90% ISTS Transmission Network owned by POWERGRID
- ✓ Trans. Lines: 1014 Nos. 127,539 ckm
- ✓ Sub-stations: 205 Nos. 248,164 MVA
- ✓ State-of-the-art technologies like HVDC, SVC, FACTS etc.
- ✓ >40% power generated in India transmitted through POWERGRID



400kV & above: >90%



# Performance in FY16 (9 months)



## **Performance- Financial**



			(₹ i	n crore)	
	Quarter ended		Nine mon		
	31.12.2015	31.12.2014	31.12.2015	31.12.2014	FY 2014-15
Revenue					
- Transmission Charges	5190	4183	14452	12054	16521
- Consultancy Income: Services	114	102	302	224	381
- Telecom	103	69	288	196	275
- Other Income	98	132	278	396	603
Total Income	5505	4486	15320	12870	17780
<ul> <li>Operating Expenses(including prior period adjustment)</li> </ul>	611	613*	1790	1781*	2426
EBITDA-Gross Margin	4894	3873	13530	11089	15354
Depreciation	1580	1301	4398	3667	5085
Interest	1288	1025	3546	2942	3979
Tax	413	318	1158	913	1311
Profit after Tax	1613	1229	4428	3567	4979

\* Operating Expenses for the quarter and nine months ending 31-12-2014 includes prior period expenses of ₹ 30 crore and ₹ 72 crore respectively



## **Performance - Financial**



			(₹ in crore)	
	As on 31.03.2015	As on 30.06.2015	As on 30.09.2015	As on 31.12.2015
Gross Fixed Assets	118,264	122,811	127,860	145,067
Capital Work-in-Progress	56,292	56,878	58,094	46,000
Debt	93,845	99,412	104,164	105,387
Net Worth	38,037	39,404	40,852	42,465
Earning Per Share (₹)	9.52	2.61#	5.38#	8.46#
Book Value per Share (₹)	72.71	75.32	78.09	81.17
Key Financial Ratios				
Debt : Equity	71:29	72:28	72:28	72:28**
Return on Net Worth	13.09%	3.47%#	6.89%#	10.43%#

**# Not Annualized** 

\*\* Considering Interim Dividend Payment





#### As on 31.12.2015

Total Outstanding	~ ₹ 2,356 crore (45 days billing <sup>#</sup> )		
Transmission Outstanding	~ ₹ 393 crore		
(beyond 60 days)	(7 days billing <sup>#</sup> )		
<b>Billed but not outstanding</b>	~ ₹ 1,726 crore		
(<60 days allowed as per CERC)	(33 days billing <sup>#</sup> )		

# Avg. Monthly Billing: ₹ 1,577 => 2 months 60 days) billing = ₹ 3,154 crore



## **Performance - Financial**

# पावरग्रिड

#### Period: 9 months FY16

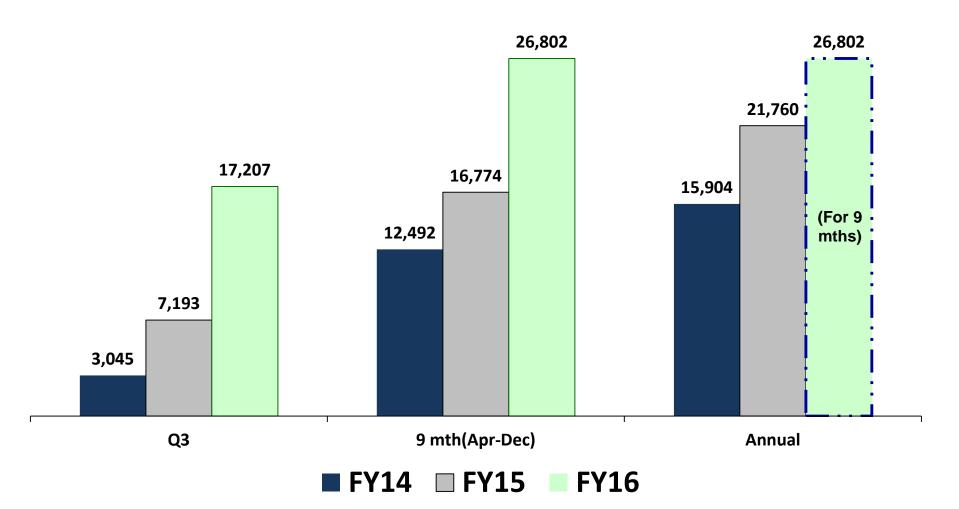




## **Performance – Physical (3 years)**



#### Capitalization



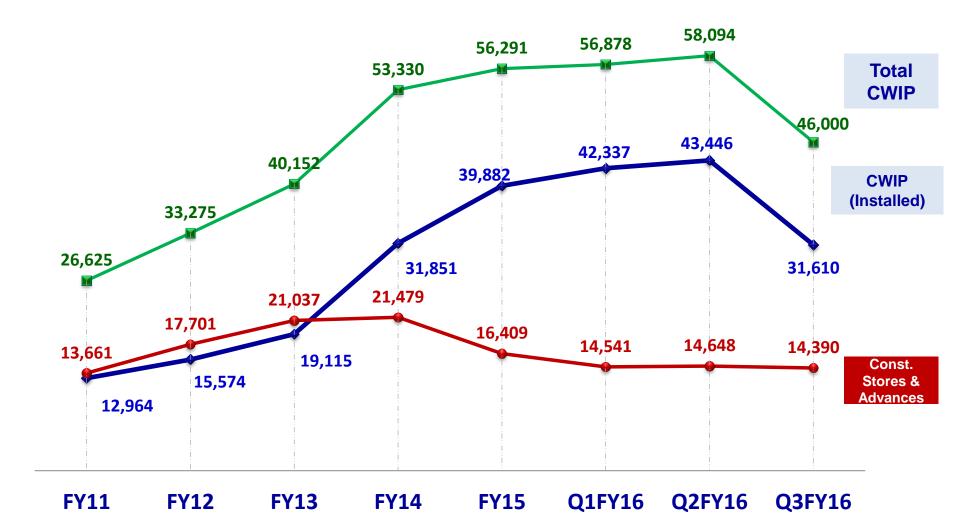
(₹ in crore)



## **Performance – Physical (CWIP)**



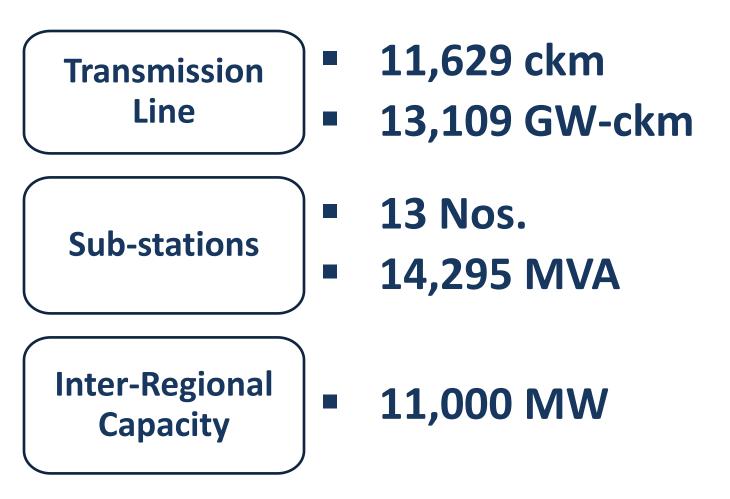
(₹ in crore)





## **Performance - Physical**

## Period: 9 months FY16

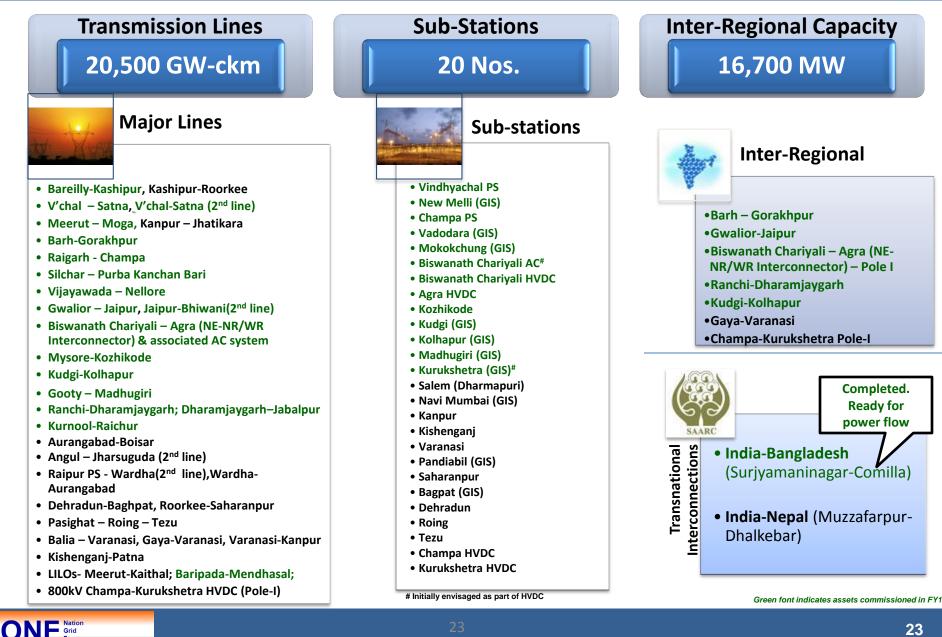






## **Projects in FY16**





## **Operations - FY16 (till Dec-15)**

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- Assets as on Dec-15:
  - ✓ Trans. Lines : 1013 Nos. 127,266 ckm
  - ✓ Sub-stations : 205 Nos. 246,004 MVA

(104 sub-stations remotely operated)

- Performance during FY16 (till Dec-15)
  - ✓ Availability : 99.78%
  - ✓ Reliability : 0.54 Trippings/ line

**New Initiatives in Asset Management** 

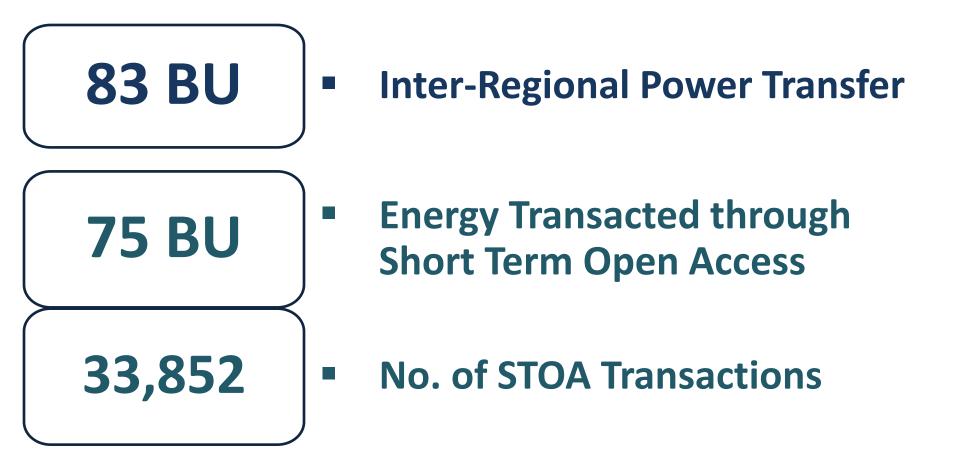
- ✓ Aerial Patrolling (using helicopters) of 17,000 km of transmission lines to commence from March, 2016
- ✓ Maintenance of transmission lines using helicopters Bids under evaluation
- ✓ Use of Unmanned Aerial System (UAS)/ Drones



## Grid Management<sup>1</sup> - FY16 (till Dec-15)



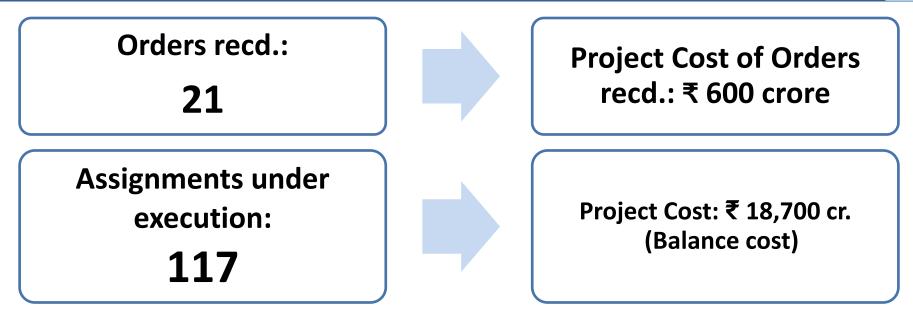
#### Period: 9 months FY16





## Consultancy (Domestic) - FY16(till Dec-15)





#### ✓ Major Ongoing Assignments

- ✓ NER Power System Improvement Project (6 NE States)
- ✓ Strengthening of T&D System in Arunachal & Sikkim
- ✓ 220kV TS to Leh-Kargil (J&K)
- ✓ Evacuation System for Lalitpur TPP (UP)
- ✓ Implementation of IPDS at Old Kashi area



## Consultancy (Intl.) - FY16(till Dec-15)



#### **Footprints in 18 countries**

**14 Nos. -** Assignments under execution (as on Dec-15)

Major Ongoing assignments	<ul> <li>2<sup>nd</sup> Block of 1x500MW HVDC B2B Stn. at Bheramara</li> <li>CASA-1000 Project</li> <li>Assignments from ADB &amp; World Bank in Nepal</li> <li>Trans. Infrastructure works in Kenya</li> </ul>

#### Management Contract in Ethiopia – Successfully completed



## Telecom - FY16 (till Dec-15)



41 New Clients added	Total Order Book
[(Pvt. (26), Govt(15)]	> ₹ 2100 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 Network (NOFN): Work for 6,900 Gram Panchayats under progress - 3,222 Gram Panchayats connected





# Renewables & SAARC



## **Renewable Integration**

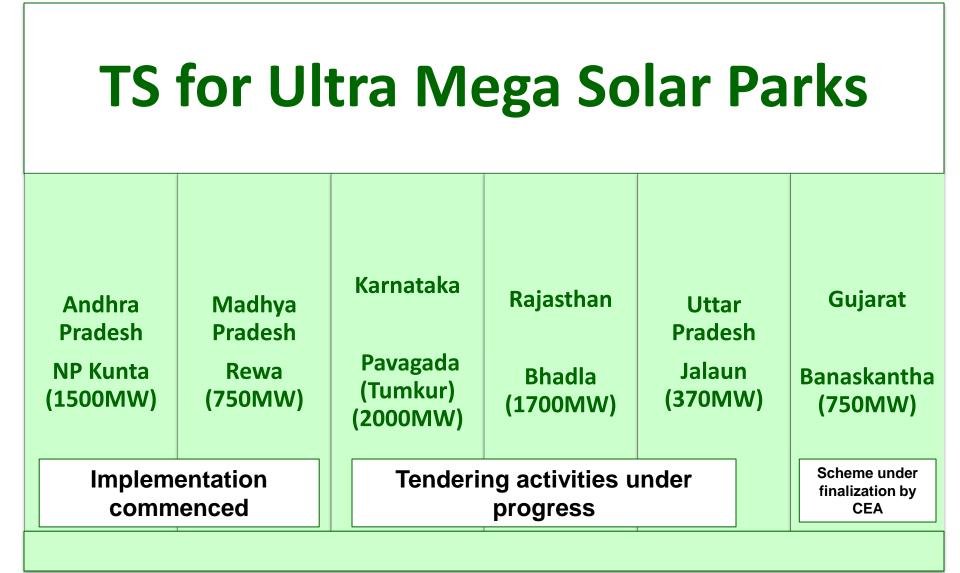


## Green Energy Corridors (ISTS ₹ 13,000 crore)

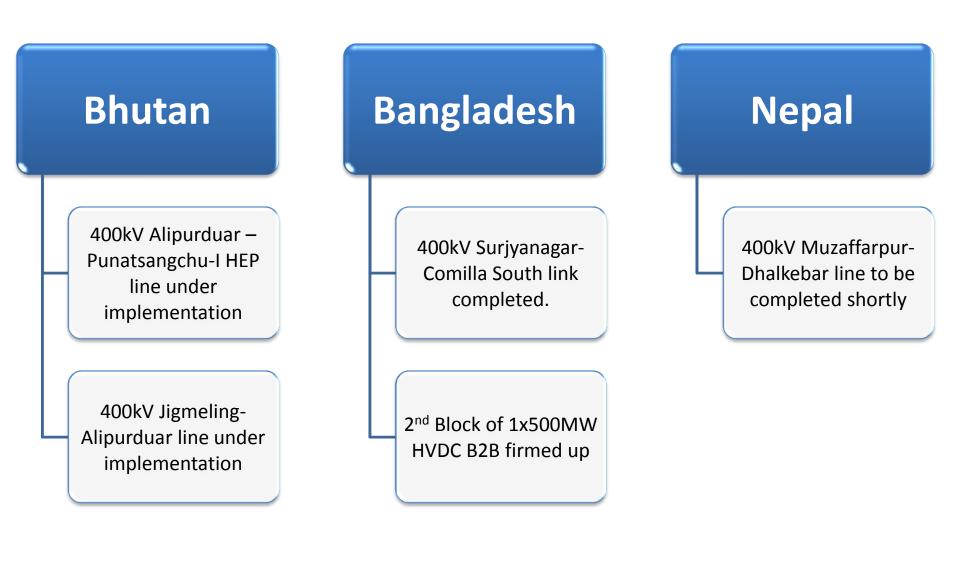
Part A	Works commenced
Part B	Works commenced
Part C	Ready for Award
Part D	Projects under Bidding



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# Nvestment & Funding Programme



## **Investment & Funding Programme**

ONE Grid Frequency



