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• Annual Accounts for FY2014-15 have been approved by the shareholders during the Annual General Meeting on 15 Sept., 2015.
Highlights – Q3FY16

POWEROGRID Today

Performance during FY16 (9 months)

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

Renewable & SAARC

Investment & Funding Programme
Highlights - Q3FY16
Highlights – Q3FY16

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**

<table>
<thead>
<tr>
<th>On Time</th>
<th>Within Cost</th>
</tr>
</thead>
</table>

- 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
India - Bangladesh

• 2nd Interconnection completed
Highlights – Q3FY16

₹ 17,207 crore
• Worth works capitalized in Q3
• Highest-ever Quarterly Capitalization

₹ 26,802 crore
• Total Capitalization during FY16 (till Dec-15)
Highlights – Q3FY16

- Increase in Income in Q3 w.r.t. Q3FY15
  - 23%

- Increase in Profit After Tax in Q3 w.r.t. Q3FY15
  - 31%
Highlights – Q3FY16

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
### Highlights – Q3FY16

**ONE Price**

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

**Date: 26-12-2015 To 30-12-2015**

<table>
<thead>
<tr>
<th>Date</th>
<th>A1</th>
<th>A2</th>
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<th>E2</th>
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<th>N2</th>
<th>N3</th>
<th>S1</th>
<th>S2</th>
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<td>2300.04</td>
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<td>30-12-2015</td>
<td>2300.23</td>
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<td>2300.23</td>
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<td>2300.23</td>
<td>2300.23</td>
<td>2300.23</td>
<td>2301.84</td>
</tr>
</tbody>
</table>

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

[Source: India Energy Exchange]
Providing Support during Natural Calamities

**Floods in Chennai (Nov-Dec, 2015)**
- Support to Tamil Nadu to restore EHV lines

- 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
POWERSGRID Today

- A ‘NAVRATNA’ ENTERPRISE
- CENTRAL TRANSMISSION UTILITY
- LISTED COMPANY since 2007
- GOVT. SHAREHOLDING 57.90%
- PAYING DIVIDEND SINCE 1993-94
- Market Capitalization ₹ 73,870 crore

- >90% ISTS Transmission Network owned by POWERSGRID
- Trans. Lines: 1014 Nos. - 127,539 ckm
  - 400kV & above: >90%
- 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

CREDIT RATINGS

- Domestic
  - ICRA: AAA Stable
  - CRISIL: AAA Stable
  - CARE: AAA
- International
  - S&P: AAA Stable
  - Fitch: BBB (-) Stable Outlook
  - ICRA: AAA

1- Based on BSE Closing Price of ₹ 141.20 per share on 31.12.2015
Performance in FY16 (9 months)
## Performance - Financial

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Transmission Charges</td>
<td>5190</td>
<td>4183</td>
<td>14452</td>
</tr>
<tr>
<td>- Consultancy Income: Services</td>
<td>114</td>
<td>102</td>
<td>302</td>
</tr>
<tr>
<td>- Telecom</td>
<td>103</td>
<td>69</td>
<td>288</td>
</tr>
<tr>
<td>- Other Income</td>
<td>98</td>
<td>132</td>
<td>278</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td>5505</td>
<td>4486</td>
<td>15320</td>
</tr>
<tr>
<td><strong>Operating Expenses</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>- (including prior period adjustment)</td>
<td>611</td>
<td>613*</td>
<td>1790</td>
</tr>
<tr>
<td><strong>EBITDA-Gross Margin</strong></td>
<td>4894</td>
<td>3873</td>
<td>13530</td>
</tr>
<tr>
<td><strong>Depreciation</strong></td>
<td>1580</td>
<td>1301</td>
<td>4398</td>
</tr>
<tr>
<td><strong>Interest</strong></td>
<td>1288</td>
<td>1025</td>
<td>3546</td>
</tr>
<tr>
<td><strong>Tax</strong></td>
<td>413</td>
<td>318</td>
<td>1158</td>
</tr>
<tr>
<td><strong>Profit after Tax</strong></td>
<td>1613</td>
<td>1229</td>
<td>4428</td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th></th>
<th>As on 31.03.2015</th>
<th>As on 30.06.2015</th>
<th>As on 30.09.2015</th>
<th>As on 31.12.2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gross Fixed Assets</strong></td>
<td>118,264</td>
<td>122,811</td>
<td>127,860</td>
<td>145,067</td>
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<tr>
<td><strong>Capital Work-in-Progress</strong></td>
<td>56,292</td>
<td>56,878</td>
<td>58,094</td>
<td>46,000</td>
</tr>
<tr>
<td><strong>Debt</strong></td>
<td>93,845</td>
<td>99,412</td>
<td>104,164</td>
<td>105,387</td>
</tr>
<tr>
<td><strong>Net Worth</strong></td>
<td>38,037</td>
<td>39,404</td>
<td>40,852</td>
<td>42,465</td>
</tr>
<tr>
<td><strong>Earning Per Share (₹)</strong></td>
<td>9.52</td>
<td>2.61#</td>
<td>5.38#</td>
<td>8.46#</td>
</tr>
<tr>
<td><strong>Book Value per Share (₹)</strong></td>
<td>72.71</td>
<td>75.32</td>
<td>78.09</td>
<td>81.17</td>
</tr>
</tbody>
</table>

### Key Financial Ratios

<table>
<thead>
<tr>
<th></th>
<th>As on 31.03.2015</th>
<th>As on 30.06.2015</th>
<th>As on 30.09.2015</th>
<th>As on 31.12.2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Return on Net Worth</strong></td>
<td>13.09%</td>
<td>3.47%#</td>
<td>6.89%#</td>
<td>10.43%#</td>
</tr>
</tbody>
</table>

# Not Annualized

** Considering Interim Dividend Payment
As on 31.12.2015

Total Outstanding

Transmission Outstanding (beyond 60 days)

~ ₹ 2,356 crore (45 days billing#)

~ ₹ 393 crore (7 days billing#)

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

~ ₹ 1,726 crore (33 days billing#)

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

Period: 9 months FY16

Capitalisation (₹ in crore)
- Q1: 4,547
- Q2: 5,048
- Q3: 17,207
- Total: 26,802

Capex (₹ in crore)
- Q1: 6,412
- Q2: 5,111
- Q3: 5,368
- Total: 16,891
Performance – Physical (3 years)

Capitalization

<table>
<thead>
<tr>
<th></th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q3</td>
<td>3,045</td>
<td>7,193</td>
<td>17,207</td>
</tr>
<tr>
<td>9 mth (Apr-Dec)</td>
<td>12,492</td>
<td>16,774</td>
<td>26,802</td>
</tr>
<tr>
<td>Annual</td>
<td>15,904</td>
<td>21,760</td>
<td>26,802</td>
</tr>
</tbody>
</table>

(₹ in crore)

(For 9 mths)
Performance – Physical (CWIP)

(₹ in crore)

<table>
<thead>
<tr>
<th></th>
<th>FY11</th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
<th>Q1FY16</th>
<th>Q2FY16</th>
<th>Q3FY16</th>
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<tbody>
<tr>
<td>CWIP</td>
<td>13,661</td>
<td>17,701</td>
<td>21,037</td>
<td>21,479</td>
<td>39,882</td>
<td>42,337</td>
<td>56,878</td>
<td>58,094</td>
</tr>
<tr>
<td>Const. Stores &amp; Advances</td>
<td>12,964</td>
<td>15,574</td>
<td>19,115</td>
<td>16,409</td>
<td>14,541</td>
<td>14,648</td>
<td>14,390</td>
<td>14,250</td>
</tr>
</tbody>
</table>
Performance - Physical

Period: 9 months FY16

- **Transmission Line**
  - 11,629 ckm
  - 13,109 GW-ckm

- **Sub-stations**
  - 13 Nos.
  - 14,295 MVA

- **Inter-Regional Capacity**
  - 11,000 MW
Projects in FY16

Transmission Lines

- 20,500 GW-ckm

Sub-Stations

- 20 Nos.

Inter-Regional Capacity

- 16,700 MW

Major Lines

- Bareilly-Kashipur, Kashipur-Roorkee
- V'chal – Satna, V’chal-Satna (2nd line)
- Meerut – Moga, Kanpur – Jhatikara
- Barh-Gorakhpur
- Raigarh - Champa
- Silchar – Purba Kanchan Bari
- Vijayawada – Nellore
- Gwalior – Jaipur, Jaipur-Bhiwani(2nd line)
- Biswanath Chariyali – Agra (NE-NR/WR Interconnector) & associated AC system
- Mysore-Kozhikode
- Kundig-Kolhapur
- Gooty – Madhugiri
- Ranchi-Dharamjaygarh; Dharamjaygarh-Jabalpur
- Kurnool-Raichur
- Aurangabad-Boisar
- Angul – Jharsuguda (2nd line)
- Raipur PS - Wardha(2nd line), Wardha-Aurangabad
- Dehradun-Baghat, Roorkee-Saharanpur
- Pasighat – Roing – Tezu
- Balia – Varanasi, Gaya-Varanasi, Varanasi-Kanpur
- Kishenganj-Patna
- LILOs- Meerut-Kaithal; Baripada-Mendhasal;
- 800kV Champa-Kurukshetra HVDC (Pole-I)

Sub-stations

- Vindhyachal PS
- New Melli (GIS)
- Champa PS
- Vadodara (GIS)
- Mokokchung (GIS)
- Biswanath Chariyali AC#
- Biswanath Chariyali HVDC
- Agra HVDC
- Kozhikode
- Kundig (GIS)
- Kolhapur (GIS)
- Madhugiri (GIS)
- Kurukshetra (GIS)#
- Salem (Dharmapuri)
- Navi Mumbai (GIS)
- Kanpur
- Kishenganj
- Varanasi
- Pandiabil (GIS)
- Saharanpur
- Bagpat (GIS)
- Dehradun
- Roing
- Tezu
- Champa HVDC
- Kurukshetra HVDC

# Initially envisaged as part of HVDC

Inter-Regional

- Barh – Gorakhpur
- Gwalior-Jaipur
- Biswanath Chariyali – Agra (NE-NR/WR Interconnector) – Pole I
- Ranchi-Dharamjaygarh
- Kudgi-Kolhapur
- Gaya-Kolhapur
- Champa-Kurukshetra Pole-I

Transnational Interconnections

- India-Bangladesh (Surjyamaninagar-Comilla)
- India-Nepal (Muzzafarpur-Dhalkebar)

Green font indicates assets commissioned in FY16
Operations - FY16 (till Dec-15)

- 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 Management¹ - FY16 (till Dec-15)

Period: 9 months FY16

- Inter-Regional Power Transfer: 83 BU
- Energy Transacted through Short Term Open Access: 75 BU
- No. of STOA Transactions: 33,852
Consultancy (Domestic) - FY16(till Dec-15)

Orders recd.: 21

Project Cost of Orders recd.: ₹ 600 crore

Assignments under execution: 117

Project Cost: ₹ 18,700 cr. (Balance cost)

✓ 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

- 2nd Block of 1x500MW HVDC B2B Stn. at Bheramara
- CASA-1000 Project
- Assignments from ADB & World Bank in Nepal
- Trans. Infrastructure works in Kenya

Management Contract in Ethiopia – Successfully completed
Telecom - FY16 (till Dec-15)

- 41 New Clients added
  [(Pvt. (26), Govt(15)]

- Total Order Book
  > ₹ 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)

<table>
<thead>
<tr>
<th>Part</th>
<th>Status</th>
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<tbody>
<tr>
<td>Part A</td>
<td>Works commenced</td>
</tr>
<tr>
<td>Part B</td>
<td>Works commenced</td>
</tr>
<tr>
<td>Part C</td>
<td>Ready for Award</td>
</tr>
<tr>
<td>Part D</td>
<td>Projects under Bidding</td>
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## TS for Ultra Mega Solar Parks

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<th>Location</th>
<th>Capacity</th>
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</thead>
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<tr>
<td>Andhra Pradesh</td>
<td>NP Kunta</td>
<td>1500MW</td>
</tr>
<tr>
<td></td>
<td>Rewa</td>
<td>750MW</td>
</tr>
<tr>
<td>Madhya Pradesh</td>
<td>Pavagada (Tumkur)</td>
<td>2000MW</td>
</tr>
<tr>
<td>Karnataka</td>
<td>Bhadla</td>
<td>1700MW</td>
</tr>
<tr>
<td>Rajasthan</td>
<td>Jalaun</td>
<td>370MW</td>
</tr>
<tr>
<td>Uttar Pradesh</td>
<td>Banaskantha</td>
<td>750MW</td>
</tr>
</tbody>
</table>

- **Implementation commenced**
- **Tendering activities under progress**
- **Scheme under finalization by CEA**
SAARC Interconnections

**Bhutan**
- 400kV Alipurduar – Punatsangchu-I HEP line under implementation
- 400kV Jigmeling-Alipurduar line under implementation

**Bangladesh**
- 400kV Surjyanagar-Comilla South link completed.
- 2\textsuperscript{nd} Block of 1x500MW HVDC B2B firmed up

**Nepal**
- 400kV Muzaffarpur-Dhalkebar line to be completed shortly
Investment & Funding Programme
Investment & Funding Programme

XII Plan Capital Outlay*

₹110,000 crore

Annual Capex Plan

FY13: ₹20,037 cr. (Achieved)
FY14: ₹23,158 cr. (Achieved)
FY15: ₹22,456 cr. (Achieved)
FY16: ₹22,500 cr. (₹16,891 cr. till Dec-15)
FY17: ₹22,550 cr.

*Projects
Ongoing Projects; Tariff Based Bidding Projects; Projects assigned by GoI; Green Energy Corridors; Intra-State Projects; Transnational Interconnections

FY16 (till Dec-15)

Investments Approved

₹9,471 crore (13 Projects)
(till date ₹11,982 cr./ 20 Projects)

Contracts Awarded
₹13,465 crore

Bids opened
~ ₹23,301 crore

NITs issued/ Bids yet to be opened
~ ₹9,034 crore
Thank You