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

• Conversion rate of 1US$= ₹66.33 (as on 31.12.15) has been used throughout the presentation, unless otherwise stated.
Highlights – Q3FY16

POWERGRID Today

Performance during FY16 (9 months)

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

Renewable & SAARC

Investment & Funding Programme
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
1st 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
India - Bangladesh
• 2nd Interconnection completed
Highlights – Q3FY16

USD 2.59 bn
• Worth works capitalized in Q3
• Highest-ever Quarterly Capitalization

USD 4.04 bn
• 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%
Fastest Growing Electric Utility in Asia for second successive year

Only Indian CPSE among World’s Fastest Growing Energy Companies in 2015
Highlights – Q3FY16

Dec. 29, 2015

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

Source: India Energy Exchange
Providing Support during Natural Calamities

**Highlights – Q3FY16**

- **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
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 USD 11.14 bn

✓ >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

CREDIT RATINGS

- Domestic
  - AAA
  - Stable
  - CRISIL
  - AAA
  - Stable
  - ICRA
  - AAA
  - Stable
  - CARE

- International
  - S&P
  - BBB (-)
  - Stable Outlook
  - Fitch
  - BBB (-)
  - Stable Outlook

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>Quarter ended</th>
<th>Nine months ended</th>
<th>FY 2014-15</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Transmission Charges</td>
<td>782.45</td>
<td>630.64</td>
<td>2178.80</td>
</tr>
<tr>
<td>- Consultancy Income: Services</td>
<td>17.19</td>
<td>15.38</td>
<td>45.53</td>
</tr>
<tr>
<td>- Telecom</td>
<td>15.53</td>
<td>10.40</td>
<td>43.42</td>
</tr>
<tr>
<td>- Other Income</td>
<td>14.77</td>
<td>19.90</td>
<td>41.91</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td>829.94</td>
<td>676.32</td>
<td>2309.66</td>
</tr>
<tr>
<td>- Operating Expenses (including prior period adjustment)</td>
<td>92.11</td>
<td>92.42*</td>
<td>269.86</td>
</tr>
<tr>
<td><strong>EBITDA-Gross Margin</strong></td>
<td>737.83</td>
<td>583.90</td>
<td>2039.80</td>
</tr>
<tr>
<td>Depreciation</td>
<td>238.20</td>
<td>196.14</td>
<td>663.05</td>
</tr>
<tr>
<td>Interest</td>
<td>194.18</td>
<td>154.53</td>
<td>534.60</td>
</tr>
<tr>
<td>Tax</td>
<td>62.27</td>
<td>47.94</td>
<td>174.58</td>
</tr>
<tr>
<td><strong>Profit after Tax</strong></td>
<td>243.18</td>
<td>185.29</td>
<td>667.57</td>
</tr>
</tbody>
</table>

* Operating Expenses for the quarter and nine months ending 31-12-2014 includes prior period expenses of USD 4.52 mn and USD 10.85 mn respectively.
# Performance - Financial

(US$ in million except per share data)

<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>17,829.64</td>
<td>18,515.15</td>
<td>19,276.35</td>
<td>21,870.50</td>
</tr>
<tr>
<td><strong>Capital Work-in-Progress</strong></td>
<td>8,486.66</td>
<td>8,575.00</td>
<td>8,758.33</td>
<td>6,935.02</td>
</tr>
<tr>
<td><strong>Debt</strong></td>
<td>14,148.20</td>
<td>14,987.49</td>
<td>15,703.90</td>
<td>15,888.29</td>
</tr>
<tr>
<td><strong>Net Worth</strong></td>
<td>5,734.51</td>
<td>5,940.60</td>
<td>6,158.90</td>
<td>6,402.08</td>
</tr>
<tr>
<td><strong>Earning Per Share (USD)</strong></td>
<td>0.14</td>
<td>0.04#</td>
<td>0.08#</td>
<td>0.13#</td>
</tr>
<tr>
<td><strong>Book Value per Share (USD)</strong></td>
<td>1.10</td>
<td>1.14</td>
<td>1.18</td>
<td>1.22</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)

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

~ USD 0.36 bn (45 days billing*)

~ USD 0.06 bn (7 days billing*)

~ USD 0.26 bn (33 days billing*)

# Avg. Monthly Billing: USD 0.24 bn => 2 months 60 days) billing = USD 0.48 bn
Performance - Financial

Period: 9 months FY16

**Capitalisation (USD in bn)**
- Q1: 0.69
- Q2: 0.76
- Q3: 2.59
- Total: 4.04

**Capex (USD in bn)**
- Q1: 0.97
- Q2: 0.77
- Q3: 0.81
- Total: 2.55
Performance – Physical (3 years)

Capitalization

<table>
<thead>
<tr>
<th>Quarter</th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q3</td>
<td>0.46</td>
<td>1.08</td>
<td>2.59</td>
</tr>
<tr>
<td>9mth(Apr-Dec)</td>
<td>1.88</td>
<td>2.53</td>
<td>4.04</td>
</tr>
<tr>
<td>Annual</td>
<td>2.40</td>
<td>3.28</td>
<td>4.04</td>
</tr>
</tbody>
</table>

(USD in bn)

(For 9 mths)
Performance – Physical (CWIP)

(USD in bn)

<table>
<thead>
<tr>
<th>Year</th>
<th>CWIP (Installed)</th>
<th>Const. Stores &amp; Advances</th>
<th>Total CWIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY11</td>
<td>2.06</td>
<td>1.95</td>
<td>4.01</td>
</tr>
<tr>
<td>FY12</td>
<td>2.35</td>
<td>2.67</td>
<td>5.02</td>
</tr>
<tr>
<td>FY13</td>
<td>2.88</td>
<td>3.17</td>
<td>6.05</td>
</tr>
<tr>
<td>FY14</td>
<td>3.24</td>
<td>4.80</td>
<td>8.04</td>
</tr>
<tr>
<td>FY15</td>
<td>2.47</td>
<td>6.01</td>
<td>8.49</td>
</tr>
<tr>
<td>Q1FY16</td>
<td>2.19</td>
<td>6.38</td>
<td>8.58</td>
</tr>
<tr>
<td>Q2FY16</td>
<td>2.21</td>
<td>6.55</td>
<td>8.76</td>
</tr>
<tr>
<td>Q3FY16</td>
<td>2.17</td>
<td></td>
<td>6.94</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

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
- Kudgi-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
- 20 Nos.

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

Inter-Regional Capacity
- 16,700 MW

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

Green font indicates assets commissioned in FY16

Completed. Ready for power flow

# Initially envisaged as part of HVDC
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
Period: 9 months FY16

- **83 BU**
  - Inter-Regional Power Transfer

- **75 BU**
  - Energy Transacted through Short Term Open Access

- **33,852**
  - No. of STOA Transactions
Consultancy (Domestic) - FY16(till Dec-15)

Orders recd.: 21

Project Cost of Orders recd.: ~ USD 0.09 bn

Assignments under execution: 117

Project Cost: ~ USD 2.82 bn (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

- 2\textsuperscript{nd} 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 > USD 0.32 bn**

**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 USD 1.96 bn)**

<table>
<thead>
<tr>
<th>Part</th>
<th>Status</th>
</tr>
</thead>
<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>
</tr>
</tbody>
</table>
## TS for Ultra Mega Solar Parks

<table>
<thead>
<tr>
<th>State</th>
<th>Project Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andhra Pradesh</td>
<td>NP Kunta (1500MW)</td>
</tr>
<tr>
<td>Madhya Pradesh</td>
<td>Rewa (750MW)</td>
</tr>
<tr>
<td>Karnataka</td>
<td>Pavagada (Tumkur) (2000MW)</td>
</tr>
<tr>
<td>Rajasthan</td>
<td>Bhadla (1700MW)</td>
</tr>
<tr>
<td>Uttar Pradesh</td>
<td>Jalaun (370MW)</td>
</tr>
<tr>
<td>Gujarat</td>
<td>Banaskantha (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.
- 2nd 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***
- USD 16.58 bn

**Annual Capex Plan**
- FY13: USD 3.02 bn (Achieved)
- FY14: USD 3.37 bn (Achieved)
- FY15: USD 3.39 bn (Achieved)
- FY16: USD 3.39 bn (USD 2.55 bn till Dec-15)
- FY17: USD 3.40 bn

*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**
- USD 1.43 bn (13 Projects)
  - (till date USD 1.81 bn/ 20 Projects)

**Contracts Awarded**
- USD 2.03 bn

**Bids opened**
- ~ USD 3.51 bn

**NITs issued/ Bids yet to be opened**
- ~ USD 1.36 bn
Thank You