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• Annual Accounts for FY2013-14 are yet to be approved by the shareholders.
FY14: Major Highlights

POWERGRID Overview

Power Sector Overview

FY14- Financial Results

Highlights- Financial, Projects, Operations and Grid Management

Highlights- Diversifications

Investment & Funding Programme

New Initiatives- Updates

Highlights- CSR & Sustainability

Power Transmission- Outlook
# FY14: Major Highlights

<table>
<thead>
<tr>
<th>Deliverable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synchronized National Grid</td>
<td>Indo-Bangladesh Power Exchange commences</td>
</tr>
<tr>
<td>Highest ever IR Capacity Enhancement in a year</td>
<td>NTAMC Operation commenced</td>
</tr>
<tr>
<td>765kV Delhi ring completed</td>
<td>765kV/800kV Central Grid completed</td>
</tr>
<tr>
<td>MOU for TS of Sambhar Solar UMPP signed</td>
<td>Work for R&amp;D Center and Leadership Academy (PAL) commenced</td>
</tr>
<tr>
<td>CBPTC &amp; PTCN</td>
<td>Work commenced in Bihar JV &amp; Indo-Nepal JVs</td>
</tr>
<tr>
<td>Successful FPO</td>
<td></td>
</tr>
</tbody>
</table>
POWERGRID Today

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

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

Tr. Lines (as on 29-5-2014)
- 107,574 ckm
- 894 Nos.

MVA & S/S (as on 29-5-2014)
- 206,338 MVA
- 185 Nos.

Operating Parameters (FY13-14)
- Availability: 99.92%
- Reliability: 0.56 Trippings per line

**CREDIT RATINGS**

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

- **International**
  - BBB (-) Stable S&P
  - BBB (-) Stable Fitch
  - AAA Stable ICRA
  - AAA Stable CARE

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

Government of India
57.90%

Institutions
34.63%

Non-Institutions
7.47%

Joint Ventures (% POWERGRID equity holding)

- Powerlinks Trans. Ltd. (49%)
- Torrent Power Grid Ltd. (26%)
- Jaypee Powergrid Ltd. (26%)
- Energy Efficiency Services Ltd. (25%)
- North Eastern Trans. Co. (26%)
- Parbati Koldam Trans. Co. Ltd. (26%)
- Teesta Valley Power Trans. Ltd. (26%)
- National High Power Test Laboratory (20%)
- Cross Border Power Trans. Co. Ltd. (26%)
- Power Transmission Co. Nepal Ltd. (26%) (POWERGRID’s 1st Intl JV)
- Bihar Grid Company Ltd. (50%)
- Kalinga Bidyut Prasaran Nigam Pvt. Ltd. (50%)

Subsidiaries (100%)

- POSOCO (Grid Management)
- POWERGRID NM Transmission Ltd.
- Vizag Trans. Ltd.
- Unchahar Trans. Ltd.
- NRSS-XXXI ‘A’ Trans. Ltd.
- POWERGRID Vemagiri Trans. Ltd.

Investment
4.1%

- PTC India Ltd.

* Note: Shareholding pattern as of 31st March, 2014
Power Sector Overview

**XII Plan Addn. (till Apr’14): 45GW**

- **Installed Capacity incl. RES (GW):** FY12: 200, FY13: 223, FY14: 243
- **Tr. Lines (’000 ckm):** FY12: 200, FY13: 223, FY14: 243

**Peak Load (GW):**
- FY14: 136
- FY17: 200
- FY22: 283

**Peak Energy Requirement (BU):**
- FY14: 1002

**Energy Generated (BU):**
- FY12: 877
- FY13: 912
- FY14: 966

**Renewables**
- XII Plan: 30GW (7GW till Apr-14)
- XIII Plan: 31GW

**Capacity Additions**

- **XII Plan:** 88 GW (38GW till Apr-14)
- **XIII Plan:** 79 GW

**I-R Capacity**
- By end XII Plan: 65.55 GW
- Till Apr-14: 38.55 GW

**Source:** POSOCO/ CEA Reports/ 18th EPS/ XII Plan/ XII Plan Working Group on Power
## Financial Highlights FY14

<table>
<thead>
<tr>
<th>Description</th>
<th>Quarter ended</th>
<th>Year ended</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>31.03.2014</td>
<td>31.03.2013</td>
</tr>
<tr>
<td>Income</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmission Charges</td>
<td>3752</td>
<td>3198</td>
</tr>
<tr>
<td>Consultancy – Services</td>
<td>147</td>
<td>35</td>
</tr>
<tr>
<td>Consultancy – Sale of Products</td>
<td>22</td>
<td>87</td>
</tr>
<tr>
<td>Telecom</td>
<td>65</td>
<td>61</td>
</tr>
<tr>
<td>Other Income</td>
<td>197</td>
<td>235</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td><strong>4183</strong></td>
<td><strong>3616</strong></td>
</tr>
<tr>
<td>Operating Expenses (including prior period</td>
<td></td>
<td></td>
</tr>
<tr>
<td>adjustment)</td>
<td>603</td>
<td>532</td>
</tr>
<tr>
<td><strong>EBITDA-Gross Margin</strong></td>
<td><strong>3580</strong></td>
<td><strong>3084</strong></td>
</tr>
<tr>
<td>Depreciation</td>
<td>1075</td>
<td>905</td>
</tr>
<tr>
<td>Interest</td>
<td>819</td>
<td>680</td>
</tr>
<tr>
<td>FERV: Loss / (Gain)</td>
<td>0</td>
<td>(5)</td>
</tr>
<tr>
<td>Tax</td>
<td>510</td>
<td>395</td>
</tr>
<tr>
<td><strong>Profit after Tax</strong></td>
<td><strong>1176</strong></td>
<td><strong>1109</strong></td>
</tr>
</tbody>
</table>

* Includes one time item net of tax ₹ 125 crore
** Includes one time item net of tax ₹ 313 crore
# Financial Highlights FY14

<table>
<thead>
<tr>
<th>Description</th>
<th>As on 31.03.2014</th>
<th>As on 31.03.2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Fixed Assets</td>
<td>96504*</td>
<td>80600</td>
</tr>
<tr>
<td>Capital Work-in-Progress</td>
<td>53330 **</td>
<td>40153</td>
</tr>
<tr>
<td>Debt</td>
<td>80470</td>
<td>66188</td>
</tr>
<tr>
<td>Net Worth</td>
<td>34413</td>
<td>26213</td>
</tr>
<tr>
<td>Earning Per Share (₹)</td>
<td>9.36</td>
<td>9.15</td>
</tr>
<tr>
<td>Book Value per Share (₹)</td>
<td>65.78</td>
<td>56.62</td>
</tr>
</tbody>
</table>

**Key Financial Ratios**

<table>
<thead>
<tr>
<th>Ratios</th>
<th>FY14</th>
<th>FY13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Debt : Equity</td>
<td>70:30</td>
<td>72:28</td>
</tr>
<tr>
<td>Return on Net Worth</td>
<td>13.07%</td>
<td>16.15%</td>
</tr>
</tbody>
</table>

* Excluding 765 KV Assets of approx. ₹ 1850 cr completed in March 2014 to be capitalized in April 2014.

** includes dues for capital expenditure ₹ 5063 crore.
Financial Highlights – 4 years

Accelerated Asset Creation ....

.... has led to increased profits ...

- PAT
- Income
- CWIP
- Gross Fixed Assets

5th Largest PSU (Gross Block: 7.5% of aggregate of all CPSEs)¹

Assets: >2x
Income: >2x
PAT: >2x

Forbes Global 2000 List of World’s Largest Cos. : Rank 1011 (Year 2013)

(₹ in crore)

* Excluding 765kV Assets of approx. ₹ 1850 cr. Completed in Mar’14, to be capitalized in Apr’14
** Includes dues for capital expenditure ₹ 5063 cr.
# includes one time item net of tax ₹ 313 cr.

(1)- PSE Survey 2012-13 of DPE
Financial Highlights – 4 years

Higher capitalization, continuous investments …

... coupled with improved efficiency in project management …

(₹ in crore)

Capex | Capitalisation
--- | ---
FY11 | 12,005 | 7,313
FY12 | 17,814 | 14,100
FY13 | 20,037 | 17,213
FY14 | 22,324 | 17,754*

* including 765kV assets of approx. ₹1850 cr. completed in Mar’14, to be capitalized in Apr’14

Fastest Growing Navratna¹

¹- 5th DSJ PSU Awards

‘Lasting Impact on Indian Economy’²

²- Governancenow PSU Awards 2013
Financial Highlights – 4 years

.... assisted by enhanced employee efficiency....

![Profit vs Income chart]

- **Profit**
- **Income**

<table>
<thead>
<tr>
<th>Year</th>
<th>Profit</th>
<th>Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY11</td>
<td>0.28</td>
<td>0.34</td>
</tr>
<tr>
<td>FY12</td>
<td>0.93</td>
<td>0.45</td>
</tr>
<tr>
<td>FY13</td>
<td>1.12</td>
<td>0.49</td>
</tr>
<tr>
<td>FY14</td>
<td>1.43</td>
<td>1.72</td>
</tr>
</tbody>
</table>

Profit/ Emp.: ~1.8x

₹ in cr/ Employee

... has led to enhanced stakeholders returns

- **Dividend per Share**
- **Earnings per Share**
- **Book Value per Share**

<table>
<thead>
<tr>
<th>Year</th>
<th>Dividend</th>
<th>Earnings</th>
<th>Book Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY11</td>
<td>1.75</td>
<td>6.19</td>
<td>50.73</td>
</tr>
<tr>
<td>FY12</td>
<td>2.11</td>
<td>46.12</td>
<td>56.62</td>
</tr>
<tr>
<td>FY13</td>
<td>2.75</td>
<td>7.03</td>
<td>9.15</td>
</tr>
<tr>
<td>FY14</td>
<td>2.58</td>
<td>9.36</td>
<td>65.78</td>
</tr>
</tbody>
</table>

(* incl. proposed ₹ 1.31 per share)

2013 Platts Top 250 Global Energy Cos.
2nd Fastest Growing Electric Utility in the World

(#{Based on 3 year CGR for publicly traded cos. With assets over US$ 4.5bn})
Utilization of FPO funds - Update

FPO funds

- Funds raised: ₹ 5321 crore
- No. of Projects identified for fund utilization: 27
- Funds utilized till Mar’14: ~ ₹ 2332 crore
  - (₹ 2782 crore till date)
- ~ 27 elements of 12 identified projects commissioned during Dec13 – May14

- TS associated with Rihand-III & V’chal-IV
- TS for Phase-I Generation Projects in Odisha (Part-C)
- SRSS - XIX
- TS associated with Krishnapatnam (Part-B)
- Establishment of Pooling Stations at Champa and Raigarh (near Tamnar) for IPP generation projects in Chhattisgarh
- Establishment of Pooling Stations at Raigarh (Kotra) and Raipur for IPP generation projects in Chhattisgarh
- SRSS – XVIII
- TS for Phase-I generation projects in Odisha (Part-A)
- TS for IPP generation projects in MP & Chhattisgarh
- TS for Phase-I generation projects in Odisha (Part-B)
- NRSS – XXI
- TS for transfer of power from generation projects in Sikkim to NR/WR – Part B
FY14: Billing & Realization

Billing
₹ 14,556 Crore

Realization
₹ 14,393 Crore

%age realization
98.87%

Avg. Monthly Billing: ₹ 1,213 crore => 2mnths (60 days’) billing = ₹ 2,426 crore

Dues as on 30.04.2014
Balance due but not outstanding (<60 days allowed as per CERC) = ₹ 1,058 crore

<table>
<thead>
<tr>
<th>Description</th>
<th>₹ in Crore</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outstanding &gt; 60 days</td>
<td>348*</td>
</tr>
<tr>
<td>Payments (in installments)</td>
<td>147</td>
</tr>
</tbody>
</table>

Outstanding equivalent to ~5 days’ billing
Project Highlights - Major Projects Commissioned in FY 14

Transmission Lines

~ 10,076 GW-ckm

Sub-Stations

17 Nos.
~ 41,160 MVA

Inter-Regional Capacity

6,300 MW

Major Lines

- Agra – Jhatikara
- Agra - Meerut
- Sasaram – Fatehpur II
- Parbati Pooling-Amritsar
- Sasan - Satna II
- Behrampur-Bheramara (Bangladesh I/C)
- Fatehpur - Agra II
- TPCIL – Nellore
- Agra - Sikar
- Raigarh (Kota) – Raigarh (Tamnar)
- Jabalpur PS – Bina
- Raichur-Sholapur
- Raigarh (Kotra) – Raipur (Durg)
- Meerut - Bhiwani
- Satna – Gwalior
- Pirana-Vadodara
- Vadodra-Asoj
- Ranchi- Ranchi I & II
- Bareilly-Lucknow
- Ranchi-WR Pooling (Bilaspur)
- Thiruvalam-Chittoor

Aggregate ckm: ~6600 (765kV: ~50%)

Sub-stations

- Raigarh (Kotra)
- Indore
- Parbati PS
- Behrampur (for Bangladesh interconnection)
- New Wanpoh (J&K)
- Raigarh (Tamnar)
- Hamirpur (GIS)
- Jabalpur PS
- Raipur PS
- Ranchi
- Aurangabad
- Dharamjaygarh
- Kala (DNH)
- Lakhi Sarai
- Thiruvelam
- Kurnool
- Kotputli

Inter-Regional

- Sasaram - Fatehpur II
- Raichur – Sholapur
- Ranchi – WR Pooling (Bilaspur)

Indo-Bangladesh Inter-connection

Transnational link
Projects in FY15

Transmission Lines
~ 15,000 GW-ckm

Sub-Stations
15 Nos.
~ 30,000 MVA

Inter-Regional Capacity
7,300 MW

Major Lines
- Nellore-Thiruvalam
- Bina – Gwalior
- Champa-Raipur, Champa-Dharamjaygarh
- Indore - Vadodara
- Satna – Gwalior, Gwalior – Jaipur, Jaipur – Bhiwani
- Raichur - Kurnool
- V’chal – Satna, Rihand – V’chal
- Annupur - Jabalpur
- Barh – Gorakhpur
- Angul-Jharsuguda, Jharsuguda – Dharamjaygarh
- Raigarh - Champa
- Raipur - Wardha, Wardha – Aurangabad
- Silchar – Purba Kanchan Bari, Silchar - Imphal
- Balipara - Bongaigaon
- Vijayawada – Nellore, Nellore - Kurnool, Kurnool – Thiruvalam
- Salem – Madhugiri, Dharmapuri -Somnahalli
- Sholapur - Pune
- Thiruvalam – Sholinganallur
- Biswanath Chariyali – Agra (NE-NR/WR Interconnector)
- Meerut - Moga
- Kanpur - Jhatikara

Sub-stations
- Rangpo (GIS)
- Shahjahanpur
- Magarwada
- Madhugiri
- Salem (Dharmapuri)
- Chaibasa
- Pune (GIS)
- Navi Mumbai (GIS)
- Bareilly
- Vadodara (GIS)
- Champa
- New Melli (GIS)
- Kanpur
- Biswanath Chariyali HVDC
- Agra HVDC

Inter-Regional
- Barh - Gorakhpur
- Jharsuguda – Dh’jaygarh
- Biswanath Chariyali – Agra (NE-NR/WR Interconnector)

Aggregate ckm: ~10,000 (765kV: >60%)
TBCB Projects

Participation 15 Projects

Success 6 (40%)

Aggregate Levelised Tariff ₹ 565 crore

Licenses received. Contracts awarded. Projects commenced.

POWERGRID NM Transmission Ltd.

Vizag Transmission Ltd.

Unchahar Trans. Ltd
SPV acquired on 24.03.14

NRSS-XXXI-A Trans. Ltd.
SPV acquired on 12.05.14

TS for connectivity of NCC Power Projects
Bid process annulled.

Project assigned to POWERGRID on cost plus basis

POWERGRID Vemagiri Trans. Ltd.
Project under hold as per CERC Order
Operational Highlights

Assets under management (Mar-14)
- Tr. lines
  - 885 nos.
  - 106,804 ckm
- Sub-stations: 184 Nos.
  - 10 GIS
  - 51 remotely managed
  - 12 unmanned
- X-formers: ~700 nos.
  - Xfn Capacity: 205,923 MVA
  - Reactors: ~ 850 nos.

Changing Asset Profile

Mar-14 (Mar-11)
- Tr. Lines
  - 82% (86%)
  - 10% (13%)
  - 8% (1%)

- Sub-stations
  - 765kV
  - 400kV & HVDC
  - (<400kV)

S/S: 184 (135) incl. GIS: 10 (Nil)

Availability
- FY14: 99.92%
- FY13: 99.90%

Reliability
- FY14: 0.56
- FY13: 0.58

POWERGRID- One of the ‘Low-cost & Strong Service Level Performance’ transmission utilities globally (*)

(* As per ITOMS 2013 Benchmarking)
O&M Initiatives

NTAMC
- Operation commenced. 43 S/S connected.
- Real time Video Monitoring
- Maintenance Service Hubs for corrective action

Aerial Patrolling
- 550km patrolling (TL) completed
- Total scope 15,000 route km
- Lines in WR, SR and NR (Himachal) covered till now

Upcoming Initiatives in O&M

Use of helicopters for live line TL maintenance

Insulated Bucket Trucks for Hotline Maintenance of TL & S/S
R&D and New Technology Initiatives

1200kV UHVAC Technology
- Field Trial since 2012
- Feedback is satisfactory

Superconductor Technology
- Use of High Temperature Superconducting (HTS) Cable – EoIs being invited in Jun’14
- Fault Current Limiter

Smart Grid Technology
- Energy Storage Technology for RE integration – EoIs being invited in Jun’14
- Home Energy Management Systems & Micro Grid Controllers- Patents being filed
- Smart Meter & Data Concentrator Unit
- Cool Roof Technology
- Active Filter for Power Quality Improvement
- Mobile Reactive Power Source (Capacitor)

Transmission Line Research Lab at Bina S/S
Field Testing and Optimization Studies of TL
Grid Management - Highlights

**Inter-Regional Exchange (BU)**

![Chart showing Inter-Regional Exchange (BU) with a CAGR of 11.4%]

- FY11: 57
- FY12: 59
- FY13: 66
- FY14: 78

**Short Term Open Access**

- Energy (BU) Bilateral
- Energy (BU) Collective

<table>
<thead>
<tr>
<th></th>
<th>FY11</th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>42</td>
<td>52</td>
<td>50</td>
<td>30</td>
</tr>
<tr>
<td>15</td>
<td></td>
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</tr>
<tr>
<td>23</td>
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<tr>
<td>30</td>
<td></td>
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</tr>
</tbody>
</table>

**Average Daily Volumes (MU)**

- Bilateral: 156
- Collective: 82
- STOA: 238

**Impact of STOA: Reduction in cost**

- ~8 p.u.
- ~3 p.u.

**REC Update (Mar-14)**

- 919 RE generators registered
- Aggregate capacity: 4228 MW
- Total RECs issued upto March, 2014: 1.18 crore
- Total RECs traded till March, 2014: 63.54 lakh
- 6.70 lakh RECs traded in Mar-14 for ₹ 109 crore (Highest ever in a month)
- RECs traded since inception (Mar-11) ₹ 1208 crore (Aggregate Value)
Highlights – Consultancy

**FY14 Performance**

**New Orders**
- 37 New Orders from 27 clients
- Project Cost: ~ ₹ 4900 crore

**Under Execution**
- 120 assignments
- Project Cost (Bal.): ~₹ 15,000 crore

**Major 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)
- RGGVY in 4 Districts of UP
- Smart Grid Consultancy in 9 States

**Areas of Consultancy & Clientele**
- **GoI (NER, J&K)**
  - Project Management
  - RGGVY
- **STUs**
  - Turnkey Execution
  - Capacity Building
- **DISCOMs**
  - Smart Grid
- **CPSEs**
  - Turnkey Execution
  - SCADA and OPGW
- **Pvt Sector**
  - Turnkey Execution
  - TL & S/S Engg

**FY15 Update**
- 5 Orders received
Highlights – International Business

FY14 Performance

Activities
- 26 EOIs submitted
- 6 New countries approached

Success
- 7 Orders received
- 4 New countries added
- 1st Mgmt Contract

Status
- 20 projects under Execution
- All supplies under Myanmar Project completed

FY15 Update
- 2 Orders received
- 3 Countries added

Major On-going Assignments
- EPC Consultant: CASA 1000 Project
- Management Contract - Ethiopia
- Capacity Building Prog. for SAARC & Central Asian countries
- Design & Engg. Consultancy in Afghanistan, Nepal, Bhutan
- O&M of Tr. Lines- Bhutan

Building a Global Business - Brick by Brick

Afghanistan  Bangladesh  Bhutan  Ethiopia  Kenya  Myanmar  Nepal  Nigeria  Sri Lanka  Tajikistan  UAE  Congo  Pakistan  Senegal  Kyrgyz Republic  Kazakhstan  Tanzania  Uzbekistan
## Highlights – Telecom

### Infrastructure & Licenses
- **Infrastructure**
  - Fiber Optic Network: ~ 29,650 km
  - Points of Presence: 317
- **Licenses/Registrations**
  - NLD
  - ISP Category ‘A’
  - IP-I

- **PBT Revenue**

### Services Offered
- **Point to Point dedicated Bandwidth Leased Lines**
- **Internet Leased Lines**
- **Dark Fiber**
- **Tower Space for antennae installation**
- **MPLS – VPN**

### Clientele
- **NLDOs/ILDOs**
- **Unified Access Providers (incl. all Leading Telcos)**
- **ISPs**
- **Call Centers**
- **Central & State Govt. Deptts & PSEs**
- **Corporates incl. MNCs**

### FY14
- **27 PoPs added**
- **32 New Clients (21-Pvt, 11-Govt)**
- **Backbone Availability 99.94%**

### Income (FY10-FY14) CAGR: 20%

### PBT (FY10-FY14) CAGR: 43%

### Major Projects
- **NKN (Size: ₹ 6,000 cr.)**
  - POWERGRID Scope: ₹ 900 cr.
  - Project completed & under Operation

- **NOFN (Size: ₹ 20,000 cr.)**
  - Sanction Letter recd for 4 States
  - 15,000 Gram Panchayats to be connected in Phase-1. Contracts for ducts & trenching placed
  - Estimate cost: ₹ 3000 crore

### MPLS-VPN links for POWERGRID's in-house projects (NTAMC and ERP) under implementation
Investment & Funding Programme

Projects/Schemes
- HCPTCs
- Generation linked
- Grid Strengthening
- Green Energy Corridors
- TBCB projects
- JVs with States

Capital Outlay
(₹ 110,000 crore)
- FY13: ₹ 20,037 cr
- FY14: ₹ 22,324 cr
- FY15: ₹ 22,450 cr
- FY16: ₹ 22,500 cr
- FY17: ₹ 22,550 cr

Funding Requirement
- Debt & Equity in the ratio 70:30 as per Tariff guidelines

Sources of Funds
- Equity: Internal Accruals, FPO (2013)
- Debt:
  - Domestic Bonds/ Loans
  - Intl: Loans from WB, ADB; Suppliers’ Credit; ECB

Investment Approved - ~ ₹ 98,500 crore
Debt: ₹ 53,000 crore tied up
## New Initiatives - Updates

<table>
<thead>
<tr>
<th>JVs for Intra-State Transmission</th>
<th>JV with Bihar (Bihar Grid Co. Ltd.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Trans. License received. Funding (Loan) tied up</td>
</tr>
<tr>
<td></td>
<td>• Contracts under finalization for projects worth ₹ 1700 crore</td>
</tr>
<tr>
<td></td>
<td><strong>JV with Odisha</strong> <em>(Kalinga Bidyut Prasaran Nigam Ltd.)</em></td>
</tr>
<tr>
<td></td>
<td>• Under discussion</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proposed JVs</th>
<th>Manufacturing <em>(Tower &amp; Tower Parts, Conductor &amp; Insulators)</em></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• JV proposals with SAIL, RINL etc. under various stages of finalization</td>
</tr>
<tr>
<td></td>
<td>• Bids opened for selecting partner for Polymer Insulators</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proposed JVs</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• With SAIL for implementation of T&amp;D System</td>
</tr>
<tr>
<td></td>
<td>• With DMIC &amp; GICC for Smart Grid in Dholera Special Investment Region</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Energy Efficiency</th>
<th>Registered with BEE as ‘Grade-I ESCO’</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>POWERGRID Energy Audits identified energy savings equiv. to avoided generation of 20.5MW</td>
</tr>
<tr>
<td></td>
<td>Agri-Demand side Management project in Karnataka taken up – replacement of ~1300 agriculture pumps with energy efficient pumps</td>
</tr>
</tbody>
</table>
# Highlights – CSR & Sustainability

## Environment and Social Policy & Procedure (ESPP)
- Principles of **Avoidance, Minimization** and **Mitigation**
- Certified to Social Accountability Standard (SA-8001: 2008)

## Thrust Areas

<table>
<thead>
<tr>
<th>Education</th>
<th>Infrastructure</th>
<th>Health</th>
<th>Ecology</th>
<th>Environment</th>
<th>Tree Plantation</th>
<th>Livelihood</th>
</tr>
</thead>
</table>

## Major Projects undertaken in FY14

- **A 325 Bed ‘Dharamshala’** at AIIMS, New Delhi
- Integrated Watershed Mgmt in 5000 hectares of semi-arid land each in AP & Karnataka
- Capacity Building Programs (TL Tower Erection & Stringing) for 1500 youths in NER & ER
- Skill Development Programs for 850 youths in NER & ER
- Supply of Ambulances to Govt. Hospitals, Health Centers across the country
- Solar Street Lights installation

## FY14 CSR Budget
- ₹ 42.35 cr
- (1% of FY13 PAT)

## CSR Projects sanctioned in FY14
- 94 Nos.
- Cost: ₹ 103 cr.

## Sustainability Initiatives
- NTAMC Building at Manesar- POWERGRID’s 1st Green Building
- 50kW Solar Power Plant set up at Manesar
- RHQ, Bangalore – under construction, as a Green Building
- Solar Powered Electric Vehicles at Manesar & Gurgaon for local conveyance
## Future Outlook: Transmission

### Transmission
(Source: 12th Plan Working Group on Power)

<table>
<thead>
<tr>
<th>Addn. during XII Plan</th>
<th>Addn. during XIII Plan</th>
<th>Fund Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>TL: 109,440 ckm</td>
<td>TL: 130,000 ckm</td>
<td>~ ₹ 180,000 crore (XII Plan)</td>
</tr>
<tr>
<td>X-fm Capacity: 270,000 MVA</td>
<td>X-fm Capacity: 300,000 MVA</td>
<td>~ ₹ 200,000 crore (XIII Plan)</td>
</tr>
</tbody>
</table>

### Renewable Energy Integration

**Green Energy Corridor**
(Investment: ~ ₹ 25,000 cr.)

**Desert Power**
Estimated Investment* in Txn till 2050: ~ ₹ 4.5 lakh cr.

**Intra-State:** ~ ₹ 12,000 cr.

**Inter-State:** ~ ₹ 13,000 cr.
(PPOWERGRID to implement)
Proj. DPR for ₹ 6000 cr approved by KfW

By 2022: ~ ₹ 0.20 lakh cr.
2022-32: ~ ₹ 1.85 lakh cr.
2032-2050: ~ ₹ 2.45 lakh cr.

### Projects in States
(PPOWERGRID to implement)

- **NER assignments** (~₹ 12,800 cr. in aggregate)
  - i) Six States: (~ ₹ 8100 cr.)
  - ii) Sikkim & Arunachal (~₹ 4700 cr.)
- **Transmission Project for Leh-Kargil connectivity** (~ ₹ 1800 cr.)
- **Evacuation System for Lalitpur TPP in UP** (~ ₹ 2200 cr.)

### Smart Grid/ Smart City Opportunities

- **Smart Grid in Trans.- work commenced**
  (POWerGRID to implement)
  ~ ₹ 1,500 crore
- **Smart Grid works in Distribution**
  ~ ₹ 9,500 cr.
- **Smart Grid Consultancy assignments in 9 States**
  ~ ₹ 200 crore

### Other projects

- **Distribution Reform works**
- **Distribution Business & Energy Efficiency**
- **RGGVY in XII & XIII Plan**
  ~ ₹ 25,000 cr new projects
- **Targeting for Roof Top Solar PV in various states**
- **Power Quality Improvement Projects**

* Source:POWERGRID Report on Desert Power 2050- for Integrated Plan for Desert Power Development
Thank You