



POWER GRID CORPORATION OF INDIA LIMITED



Q1 FY 2014-15

**Press &
Analysts' Meet**

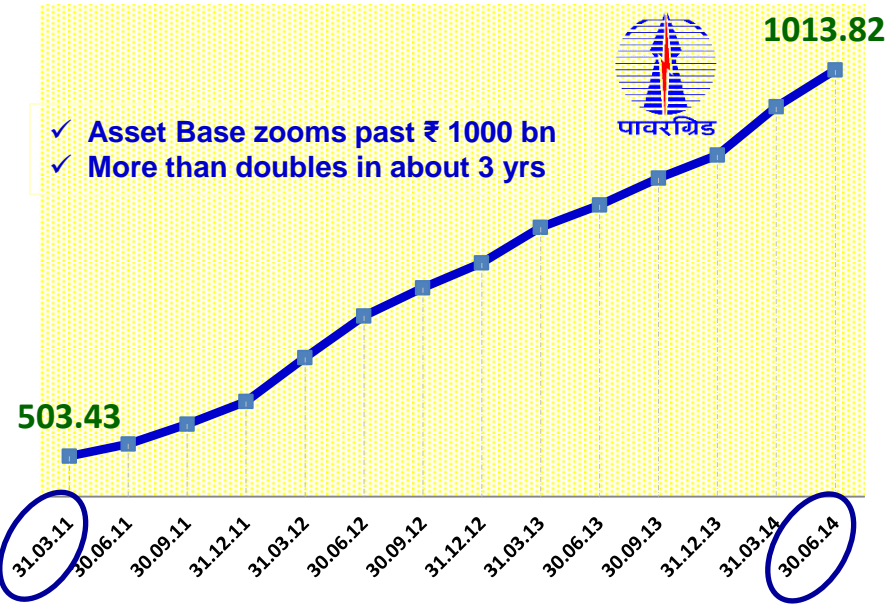
**Mumbai
5 August, 2014**

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- Annual Accounts for FY2013-14 are yet to be approved by the shareholders.*

Q1FY15 Highlights



POWERGRID- A Reliable Partner in

Restoration of Delhi Transco's storm affected lines within a very tight schedule

- Improved Power Supply Position in Delhi

Completion of strategically important WR-SR Inter-Regional line (2nd Raichur-Solapur 765kV ckt) within deadline

- Strengthening of inter-connection of SR with rest of India



पावरग्रिड



Long Term Bulk Orders

- Improving connectivity in North East
- Growing confidence of global clients

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 31-Jul-14)

109,536 ckm

907 Nos.

MVA & S/S (as on 31-Jul-14)

213,504 MVA

186 Nos.

Operating Parameters (FY13-14)

Availability: 99.92%

Reliability(*): 0.56

(*) Trippings/ line

CREDIT RATINGS

• AAA
• Stable
CRISIL

ICRA
• AAA
• Stable

• AAA
CARE

Domestic

International

• BBB (-)
• Negative
Outlook
S&P

Fitch
• BBB (-)
• Stable
Outlook

Financial Highlights- Q1FY15

(₹ in crore)			
Description	Year ended	Quarter ended	
	31.03.2014	30.06.2013	30.06.2014
Revenue			
- Transmission Charges	14327	3392	3816
- Consultancy Income - Services	333	66	61
- Consultancy Revenue – Sale of Products	294	29	0
- Telecom	276	73	65
- Other Income	491	74	133
Total Income	15721	3634	4075
Operating Expenses (including prior period adjustment)	2295	495	569
EBITDA-Gross Margin	13426	3139	3506
Depreciation	3996	964	1155
Interest	3167	760	928
Tax	1766	375	286
Profit after Tax	4497	1040	1137

Financial Highlights- Q1FY15

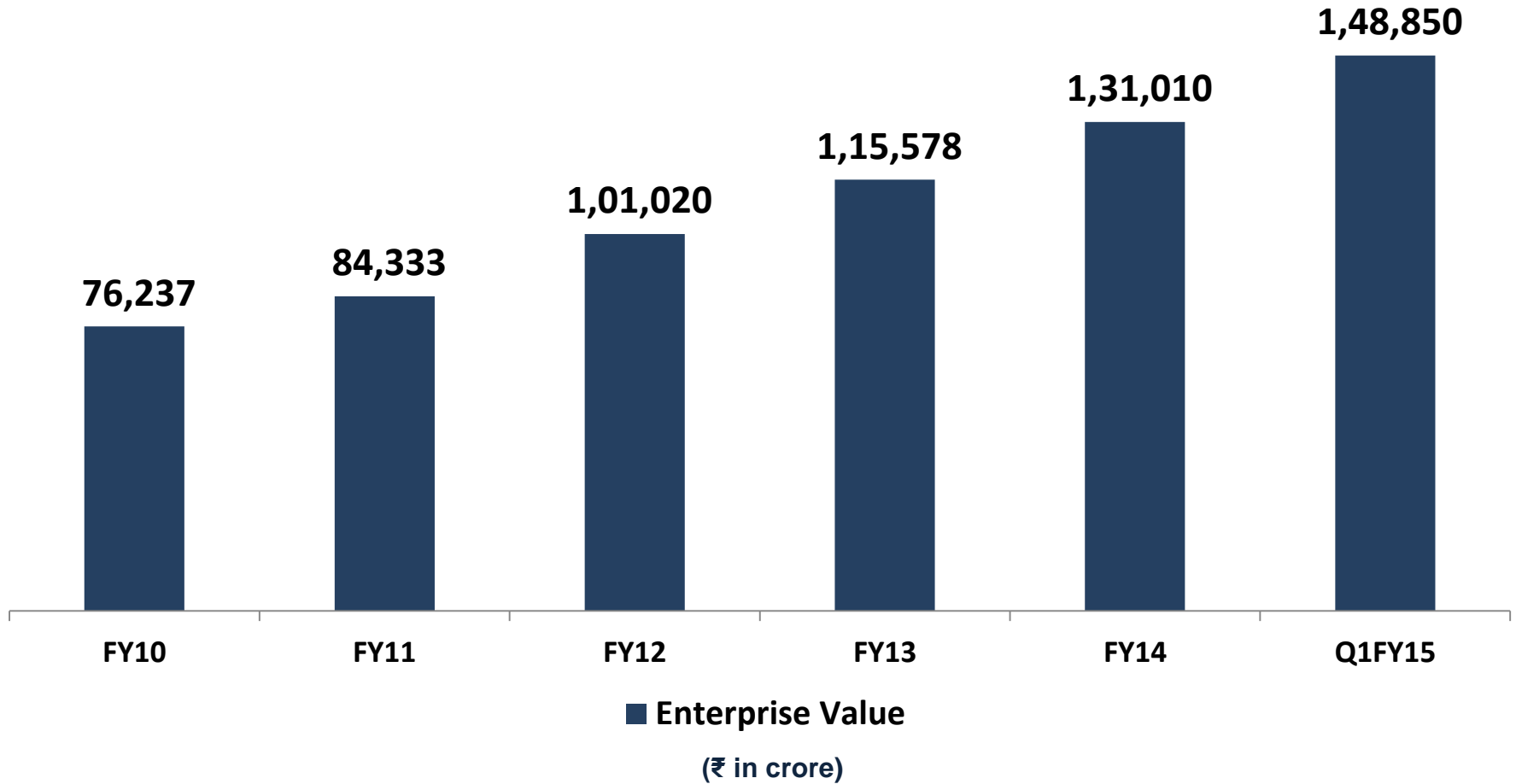
	(₹ in crore)		
	As on 31.03.2014	As on 30.06.2013	As on 30.06.2014
Gross Fixed Assets	96504*	83550	101382
Capital Work-in-Progress	53330 **	42300	53345
Debt	80470	72094	84685
Net Worth	34413	27254	35526
Earning Per Share (Rs)	9.36	2.25#	2.17#
Book Value per Share (Rs)	65.78	58.87	67.91
Key Financial Ratios			
Debt : Equity	70:30	73:27	70:30
Return on Net Worth	13.07%	3.82%#	3.20%#

#Not Annualised

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

** includes dues for capital expenditure ₹ 5063 crore.

Growing Enterprise Value



Billing & Realization- Q1FY15

Avg. Monthly Billing: ₹ 1,252 Crore => 2months (60 days) billing = ₹ 2,504 Crore

Dues as on 01.08.2014

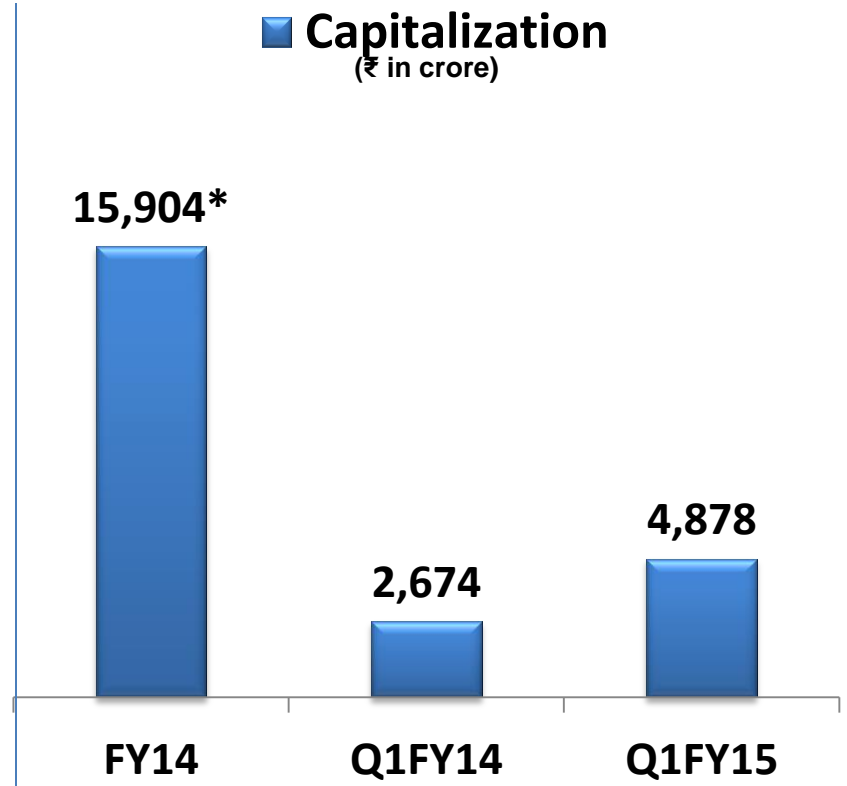
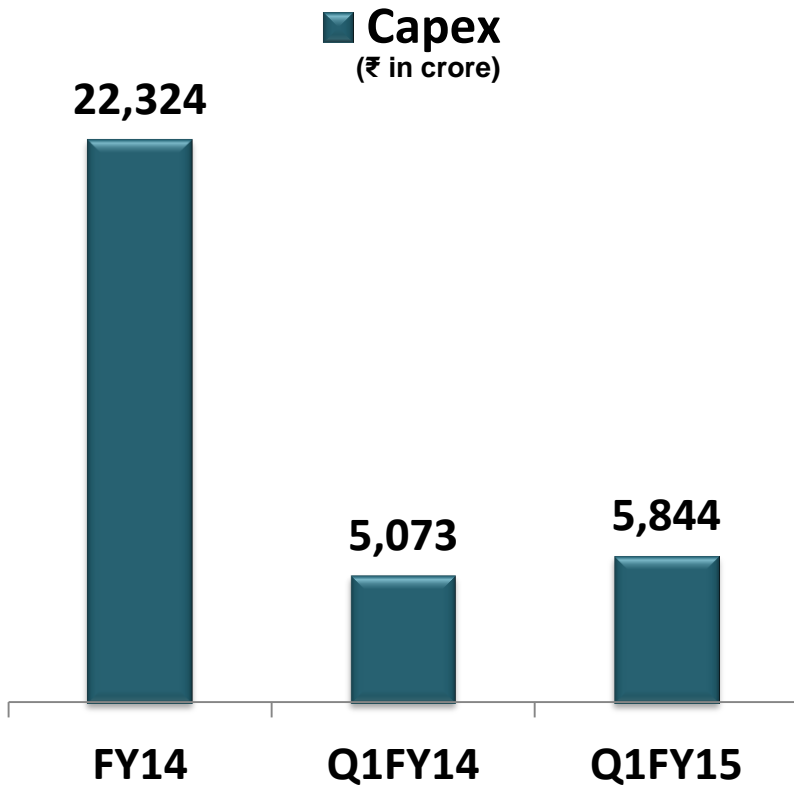
Balance due but not outstanding (<60 days allowed as per CERC) = ₹ 1,176 Crore

Description	₹ in Crore
Outstanding > 60 days	299 *
Tied-Up payments (in installments)	175

* Excludes disputes on account of surcharge/bills .

Outstanding equivalent to ~3 days billing

Project Execution- Q1FY15



* Excluding 765kV Assets of ~ ₹ 1850 cr. completed in Mar'14 & capitalized in Apr'14

FY15

Till Jul'14
₹ 7,533 crore

Till Jul'14
₹ 7,651 crore

Till date
~ ₹ 8,500 crore

Projects in FY15

Transmission Lines

~ 15,000 GW-ckm



Major Lines

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

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

Sub-Stations

15 Nos.

~ 30,000 MVA



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 Capacity

7,300 MW



Inter-Regional

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

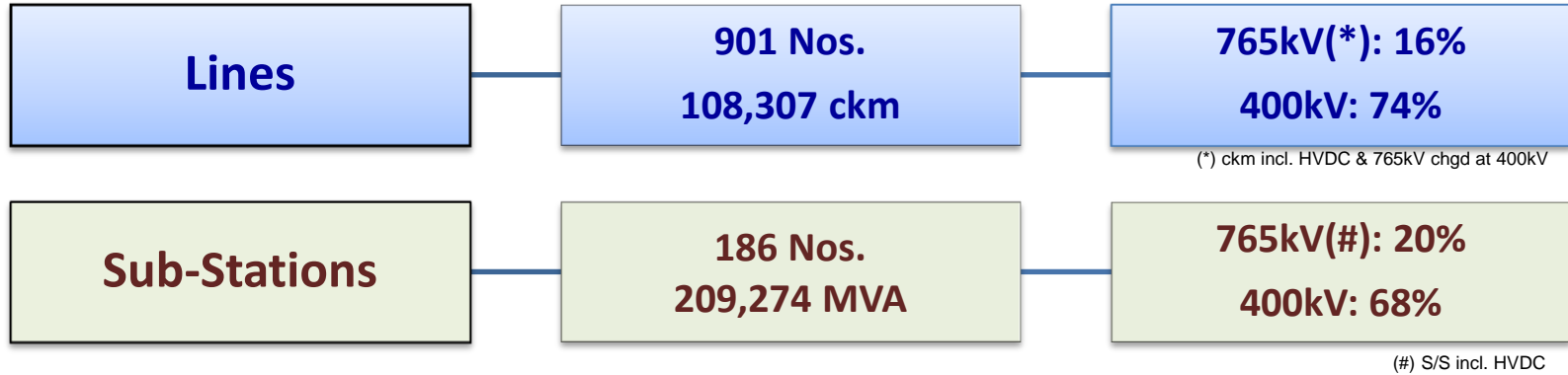
Physical Performance Q1FY15 (Till date)

Tr. Line (GW-ckm):	S/S (Nos.):	X-fmn. Cap. (MVA):	I-R Cap. (MW):
2,180 (5,347)	2 (2)	3,351 (7,581)	4,200 (4200)

Green font indicates assets commissioned till date

Operations Highlights – Q1FY15

Assets under Management (as on 30-Jun-2014)



54 remotely operated S/S

15 unmanned S/S

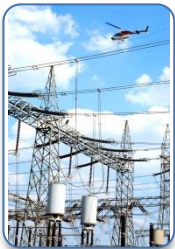
1500 X-formers & Reactors

Asset Management (Apr14-Jun14)

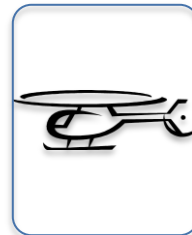
Availability: 99.9%

Reliability: 0.18

NTAMC Operational



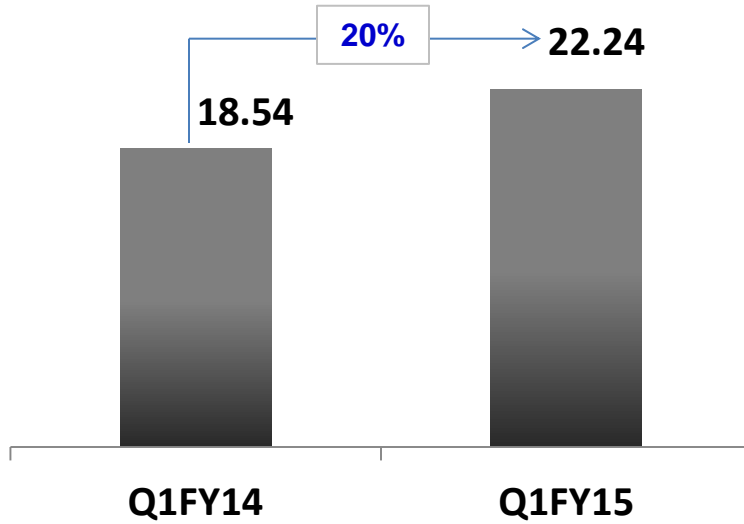
**Aerial Patrolling-
1st time in the country**
~ 1250 route km completed.
Total scope ~ 15,000 route km



**Hotline maintenance using
Helicopters**
Technical Bids under evaluation

Grid Management Highlights (POSOCO)– Q1FY15

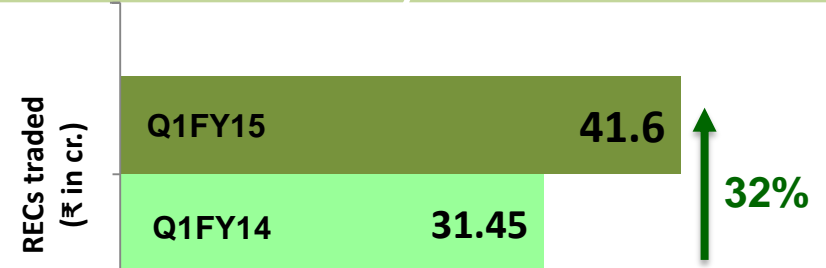
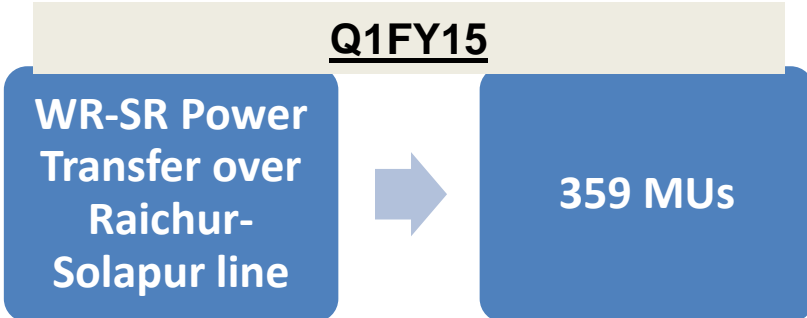
I-R Transfer (BU)



Short Term Open Access	Transactions: 8,871 Nos.
	Energy Transacted: 19.52BU

REC Trading: Update (Jun'14)

Registration (as on 30-Jun-14) 996 projects; 4494 MW	Value of RECs traded till 30-Jun-14 • ₹ 1249 crore
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No. of RECs issued till Jun'14: 138.64 lakh
No. of RECs traded till Jun'14: 66.05 lakh

Consultancy- Q1FY15 Highlights

Domestic

Q1 Orders: 9

(Govt.: 8;
Private: 1)



Under execution

- * >120 Assignments
- * Projects worth:
~ ₹ 13,950 cr. (Bal. Cost)

Recent Orders for Distribution System works in Odisha

- 10 Districts in Jun'14 and 2 Districts in Jul'14
- Aggregate Project cost: ~ ₹ 1500 crore

Under finalization

- Agreement with State Utilities for implementation of System Strengthening works

International

Q1 Orders: 2

(1 new client;
3 new countries)



Under execution

- * 15 Assignments

Footprints in 18 countries

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

Proposals submitted in Q1FY15

- 7 proposals
- 2 new countries approached

2 assignments from ADB under finalization
(1st time from ADB)

Order Book Highlights

10 New clients added

- 5 from Govt sector
- 5 from Pvt Sector

Agreement signed in Jun-14 for NER and Sikkim connectivity

- Client: BSNL
- Duration: 10 years
- Aggregate ~800 Gbps (20 loc.)

Order received for leasing 60Gpbs capacity on IRU basis

- Client: A global IT giant
- Duration: 10 years

NKN

Size: ₹ 6,000 cr.

POWERGRID Scope: ₹ 900 crore

Project completed & under operation

NOFN

Sanction Letter recd. for 4 States- Survey works completed- Estimate: ₹ 3,000 crore

Award of works in Progress

MPLS-VPN

- Launched commercially
- Empanelment of Partners
 - 3 agencies empanelled for system integration and last mile solution

Demonstration Project of High Temperature Superconducting Cable in Grid - Eols invited

Renewable Energy Integration

- Implementation of GE¹ Corridors commences- NITs issued; KfW funding
- Desert Power – Development Plan under discussion
- Procurement under way for Energy Storage Technology (Pilot)

1- Green Energy

Smart Grid

- Consultancy works – NITs issued for 4 States
- Discussions under way with more States
- Establishment of Smart Grid in Dholera (Guj.) –under DMIC

Product Development

- Home Energy Management Systems & Micro Grid Controllers - Developed
- Smart Meter & Data Concentrators Unit- Manufacturing under process
- Active filter for Power Quality Improvement– Under development

Patents being filed

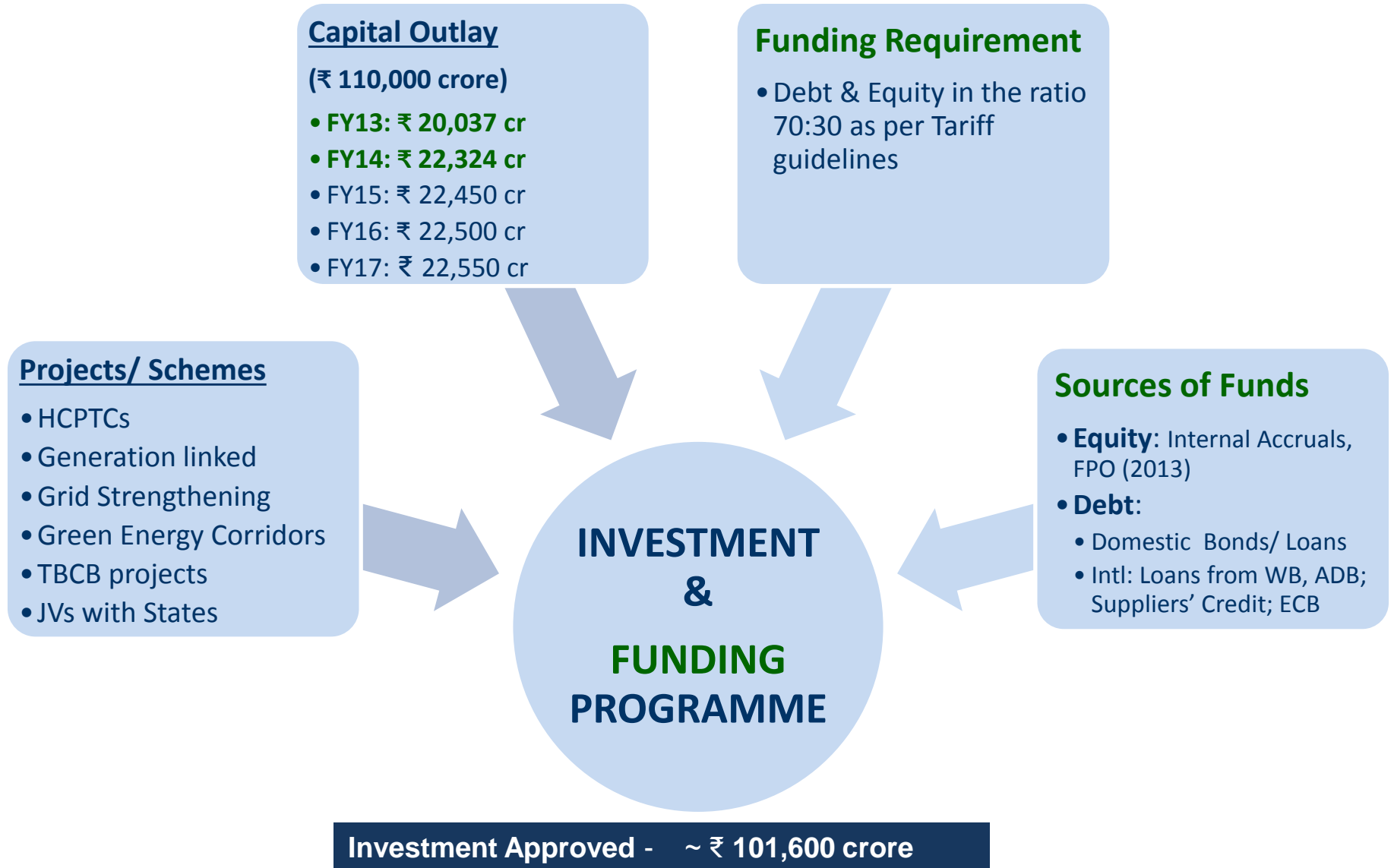
Other initiatives

- Power Quality Measurement- Field Measurement pan India under progress
- Cool Roof Technology – Field demonstration completed
- Off-shore Wind Power Development (integrated with grid) - Pilot project under formulation

Energy Efficiency

- **More than 40 Industrial and Commercial Establishments audited till June, 2014**
- **Savings equivalent to Avoided Generation of > 21 MW identified**
- **2 Nos. Waste Heat Recovery Systems designed, fabricated and implemented on turnkey basis for Steel Sector. Repeat Order also received.**
- **1st ESCO Project under finalization. Enquiries received for few more projects**
- **Agri-Demand Side Management Project in Karnataka under implementation – replacement of ~1300 agriculture pumps with energy efficient pumps**
- **Energy Audit of SAIL – Bid submitted**

Investment & Funding Programme



Utilization of FPO funds- Update

FPO funds

Funds raised:
₹ 5321 crore

No. of Projects identified for
fund utilization:
27

Funds utilized till Jul'14:
~ ₹ 2782 crore

~ 34 elements of 14 identified
projects commissioned during
Dec13 – Jul14

- ✓ TS associated with Rihand-III & V'chal-IV
- ✓ TS for Phase-I Generation Projects in Odisha (Part-C)
- ✓ SRSS – XIX
- ✓ TS strengthening in western part of WR for IPPs in Chhattisgarh
- ✓ TS associated with Krishnapatnam (Part-B)
- ✓ Common System associated with ISGS Projects in Krishnapatnam area of Andhra Pradesh
- ✓ 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

Thank You