



## **AGENDA**



### **SECTOR UPDATE**

**KEY HIGHLIGHTS: FY 2011** 

FINANCIAL RESULTS

**PROJECT UPDATE** 

**STRATEGIC PRIORITIES** 

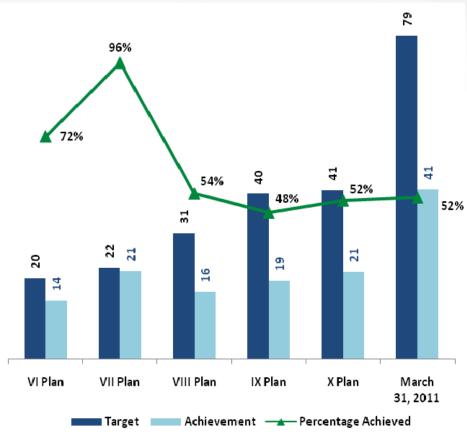
**SITE PHOTOGRAPHS** 



## **POWER SECTOR IN INDIA**

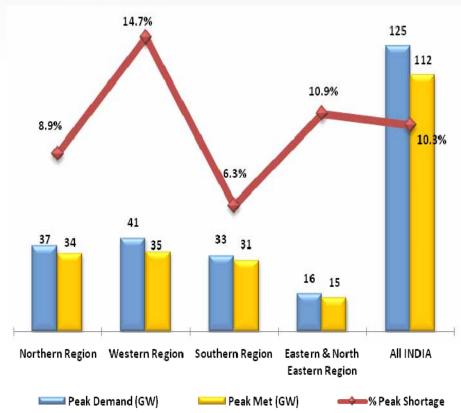


### **Capacity Build-up (GW)**



India: World's 6<sup>th</sup> largest energy consumer yet a power deficit country

## Peak Demand/Supply (GW) FY 2011



Deficit in power availability is a significant impediment to economic growth



# CAPACITY ADDITION DURING XI PLAN PERIOD



FY 2008 FY 2009 FY 2010 FY 2011

14228

11433

1143

4904

10731

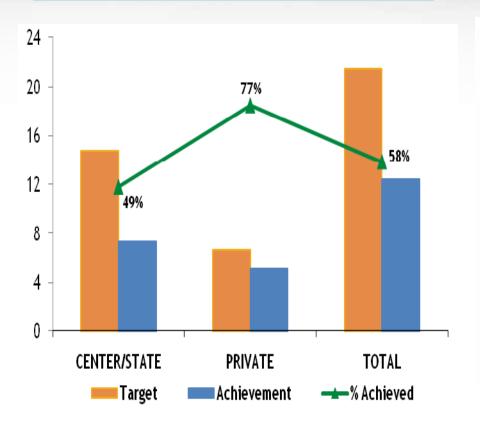
Capacity Addition during XI Plan: 41,296 MW Highest Annual Capacity Addition in FY 2011



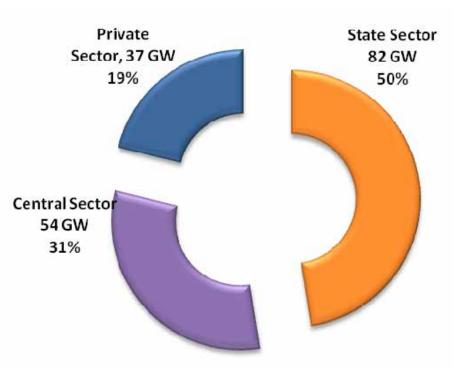
## **CAPACITY PROFILE**



## Target v/s Achievement (GW) FY 2011



## Total Capacity (GW) as at March 31, 2011



**Total Capacity: 174 GW** 

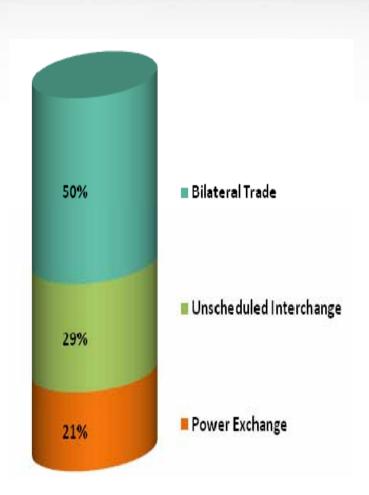


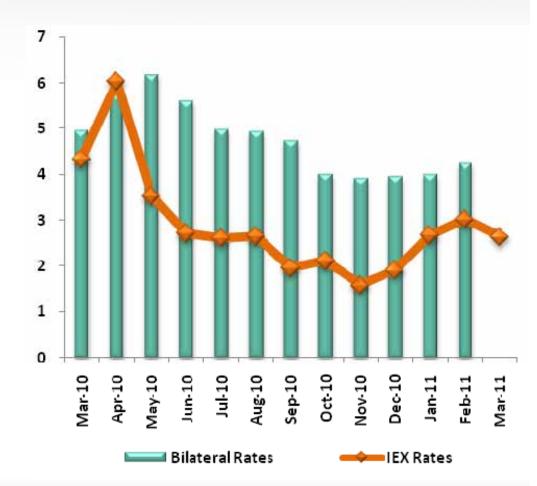
## **POWER MARKET**



### **Power Trading Market Constituents (FY 11)**

### Price Movement (Rs/kwh)





**BILATERAL TRADE** 

A significant constituent of the power trading market Provides stability to price fluctuations

6



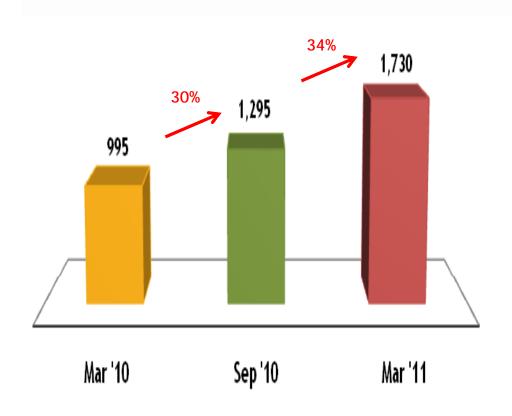


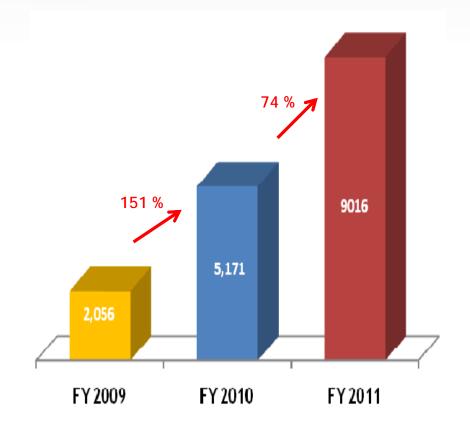
## **OPERATIONS PERFORMANCE**



## **Capacity Growth (MW)**

## Net Generation Growth(Mu)





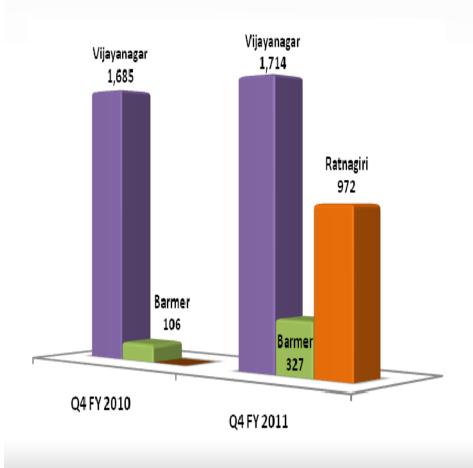


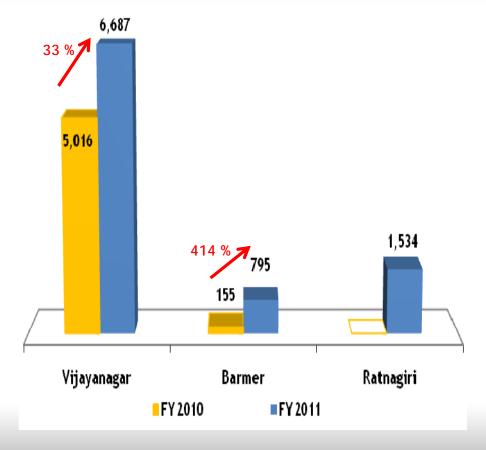
## PLANT WISE PERFOMANCE



## **QoQ Net Generation (Mu)**

## YoY Net Generation (Mu)







## **SALE OF POWER**



## Sales Mix (Million kwh)



Realisation `per kwh	Q4 FY 2010	Q4 FY 2011	FY 2010	FY 2011
Merchant Realisation	4.79	4.71	4.97	4.95
Long Term Realisation	3.53	3.71	3.41	3.63
Average Realisation	4.25	4.38	4.44	4.49





## FINANCIAL HIGHLIGHTS

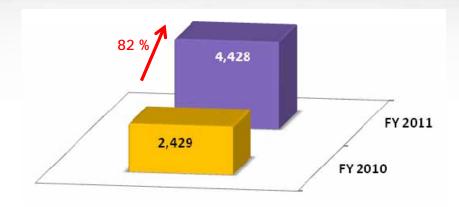




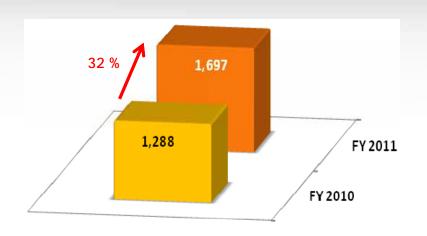
## ANNUAL CONSOLIDATED RESULTS



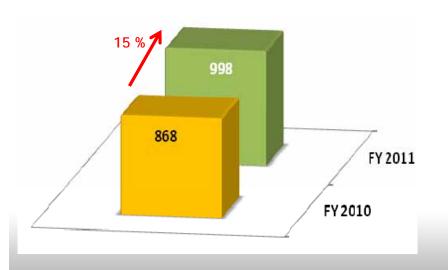
## Turnover (Rs. Crores)



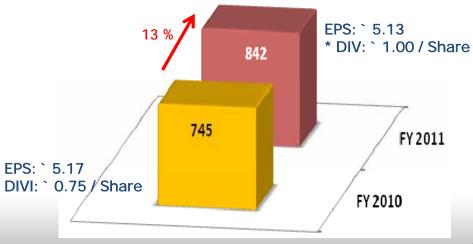
## EBITDA (Rs. Crores)



## PBT (Rs. Crores)



### PAT, EPS & DIVIDEND





## CONSOLIDATED FINANCIAL HIGHLIGHTS



	31st March 2010	31* March 2011
Net Worth (` Crores)	4,780	5,676
Debt (` Crores)	7,870	9,638
Net Fixed Assets (` Crores) *	11,598	14,129
Debt Equity Ratio (Times)	1.65	1.70
Weighted Average Cost of Debt	11.51 %	11.02 %

<sup>\*</sup>Including CWIP



## UTILISATION OF IPO PROCEEDS



### **PARTICULARS**

Utilisation
Part Finance for Identified Projects, Share Issue Expenses & General Corporate Purpose
Repayment of Corporate Debt
Unutilised Amount invested in MF/ Bank FD/ Utilised for reduction of Overdraft
<b>Gross Proceeds received from IPO</b>

## ₹ CRORES

Project Utilisation as per Prospectus	Actual Amount Spent upto March 31, 2011
2230	1,485
470	470
-	745
2,700	2,700





## RAJ WEST POWER LTD. I



Project Details		
Gross Capacity	1,080 MW (8 x 135)	
Technology	Sub-critical Captive Lignite based TPP	
Fuel Linkage	FSA with BLMCL (49% JV) for supply of lignite from captive lignite mines of BLMCL	
Water Allocation	Allocation from IGNP	
Power Off take	Long term arrangement for entire capacity with state Government distribution utilities	
Project Cost	` 6,085Crs Debt / Equity: 75:25 Amt spent till Mar 31, 2011: ` 5,150 Crs	
Commissioning	Unit I & II Operational Entire project completion in FY 12	

- •Unit III commissioning in May 2011
- •Unit IV commissioning in June 2011



## JSW ENERGY Ltd- RATNAGIRI WORKS



Project Details		
Gross Capacity	1200 MW (4 x 300)	
Technology	Sub-critical Imported Coal based TPP	
Fuel Linkage	Imported coal	
Water Allocation	MIDC + Sea Water	
Power Off take	300 MW to MSEDCL for 25 years with fuel cost pass through Short term sale for 900 MW	
Project Cost	` 5,700Crs (including FGD) Debt / Equity: 75:25 Amt spent till Mar 31, 2011: ` 4,968Crs	
Expected Commissioning	Unit I & II Operational Entire project expected by 2011	

- •Unit III commissioning imminent
- •Unit IV commissioning in June 2011



## WEST BENGAL POWER PROJECT



#### **Project Details**

**Gross Capacity** 

1620 MW

Technology

1,320 MW - Super-critical; 300 MW Sub-critical- Domestic coal based TPP

**Share Holding** 

74 % - JSWEL 26 % - JSW Bengal Steel Limited

**Fuel Linkage** 

Ichhapur Mines- WBMDTC to supply fuel

**Power Off take** 

50% Captive sale to the steel plant on two part tariff framework, 25% to WBMTDC, 25% on merchant

Project Cost Phase – I (300 MW) ` 1,662 Crs for Power plant
` 1,500 Crs for Mines Development
Amt spent till Mar 31, 2011:
` 59 Crs

- Land in possession
- •PPA signed with WBMTDC for 25% of 1320 MW of power
- •Agreement executed for coal raising & coal procurement
- •Bids invited for BTG equipment supply
- •95% of drilling exploration completed for Ichhapur coal mine
- •Construction of boundary wall and other enabling works in progress



## **CHATTISGARH POWER PROJECT**



Pro	ect	Det	ail	S

#### **Gross Capacity**

1,320 MW (2 x 660)

#### Technology

Super-critical domestic coal based TPP

#### **Fuel Linkage**

11% interest in coal block jointly allocated; applied for additional coal linkage

#### **Water Allocation**

35 mn cmpa water allocated from Mahanadi River

#### **Power Off take**

Combination of long term & short term agreements; 35% to State Govt.

#### **Project Cost**

` 6,500 Crs Amt spent till Mar 31, 2011 : ` 52 Crs

- PPA signed with GoCG for 35% of power
- •EIA report submitted to MOEF
- Water allocation obtained
- •Topography survey and geo-technical investigations completed
- •Land acquisition in progress 257 acres (32%) already acquired
- •Section 4 notification issued for 507 acres
- •Rail route survey in progress
- •Detailed survey of water pipeline route in progress
- •Offers received for BTG equipment under review



## **KUTEHR HYDRO PROJECT**



#### **Project Details**

**Gross Capacity** 

240 MW (3 x 80)

**Technology** 

**Run-of-the-river Hydropower** 

Water Allocation

Ravi River

**Power Off take** 

Free power to GoHP – 12% to 30% of delivered energy for 40 years. Balance through short term arrangements

**Project Cost** 

` 1,798 Crs Amt spent till Mar 31, 2011 : ` 119 Crs

- •Techno Economic Clearance from CEA received
- •Environment clearance recommended by EC
- •Pre qualification of civil & construction agencies completed- Technical & commercial bid scheduled to be submitted by May 2011
- •Pre-qualification of vendors for electro mechanical & hydro mechanical works issued
- •Implementation agreement signed with HP government
- •Bid documents for main civil works issued to qualified vendor
- •Land acquisition under progress



## JSWEL, VIJAYANAGAR



<b>Project Details</b>
------------------------

**Gross Capacity** 660 MW (1 x 660)

Technology Super critical coal based TPP

Fuel Linkage coal / Domestic linkage coal

Water Source Almatti Dam

Power Off take Merchant power & Long Term PPA

Project Cost Total Cost: `3,300 Crs

### **Status Update**

Land identified

•TOR cleared by MOEF

•Plant layout finalised

•DPR under preparation

•Geo technical survey in progress



Power Off take

**Project Cost** 

## RAJ WEST POWER LTD. II



Gross Capacity	270 MW (2 x 135)
Gross Capacity	
Technology	Subcritical Captive lignite based TPP
Fuel Linkage	Applied to Ministry of Coal
Water Allocation	Allocation from IGNP

**Short Term power purchase** 

Amount spent till Mar 31, 2011:

Total Cost: \ 1,350 Crs

arrangements

61 Crs

**Project Details** 

- Land in possession
- •Applied for coal linkage
- •Government consent awaited



## JSW ENERGY RATNAGIRI EXPANSION



Project Details		
<b>Gross Capacity</b>	3,200 MW (4 x 800)	
Technology	Super-critical imported coal based TPP	
Authority	Letter of support from Government of Maharashtra	
Fuel Linkage	Imported Coal	
Water Allocation	Sea Water	
Power Off take	Combination of long term & short term agreements	
Project Cost	` 150 Bn. Amt spent till Mar 31, 2011: ` 61 Crs	

## **Status Update**

•Substantial land in possession

•In the process of obtaining necessary consents and approvals



**Gross Capacity** 

## TRANSMISSION PROJECT



### **Project Details**

165 Km, 400 KV Transmission

Technology Double Circuit Quad Moose Conductor Line

**Procurement** Orders placed

Project Cost

Debt:Equity: 75:25

Actual incurred till Mar 31, 2011 :

` 491 Crs

**576 Crores** 

### **Status Update**

•Entire Jaigad - Koyna Line successfully charged

•Jaigad - Karad:

•Tower Foundations: 98%

•Tower Erection: 92%

•Stringing: 63%



## **EQUIPMENT MANUFACTURING- JSW TOSHIBA**



#### **Project Details**

## Gross Capacity

**3GW Steam Turbine Generators** 

#### **Technology**

Super critical steam turbines of size 500-1000 MW

#### **Procurement**

All orders placed

#### Investment

Entire equity required from ISWEL: `44 Crs has been invested

- Blade shop equipment installation completed
- •Trial manufacturing commenced
- •Building & Equipment Warehouse completed
- •Plant layout finalised
- •Total project completion 86%
- •Main plant completion 75%
- •Manufacturing of TG sets in 2012



## DOMESTIC MINING PROJECTS



BLMCL- Kapurdi Mine	Lignite seam exposed
	Over 50 million cubic metre of overburden removed
BLMCL- Jalipa Mine	MOEF Clearance received Mine development plan approved
	Land acquisition under progress; Entire price deposited
MJSJ Coal	Public hearing completed
	Land acquisition under progress
Ichhapur Mine	Geophysical logging completed for 95% of the boreholes Drilling activity 95% complete



## IMPORTED COAL PROJECT



#### **SACMH**

Location Umlabu & Ilanga (Wit Bank Region), South Africa

**Total Investment** 

Actual spent till March 31, 2010 : US \$ 34 Mio

Control

59.49 % Equity holding

Attractive Features

- Richard's Bay Coal Terminal Entitlement for 0.5 MTPA
- Railway siding within the mine with a capacity to handle upto 0.5 MTPA

Minable Reserves

**22 Million Tonnes** 

GCV (NAR)

6000 Kcal - 6200 Kcal

#### **Status Update**

- Coal production commenced
- •Raw Coal produced during Q4 FY 2011: 140,069 tonnes
- •Wash plant up-gradation completed

•Open cast & underground mining under progress



## STRATEGIC PRIORITIES



Ensure Fuel Security

Smooth
Integration of all
verticals of the
Power Sector

Create a world class POWER Utility Prudent mix of power off- take arrangements

Capitalise on opportunities offered by the sector



## BARMER POWER PROJECT



## **Plant Overview**

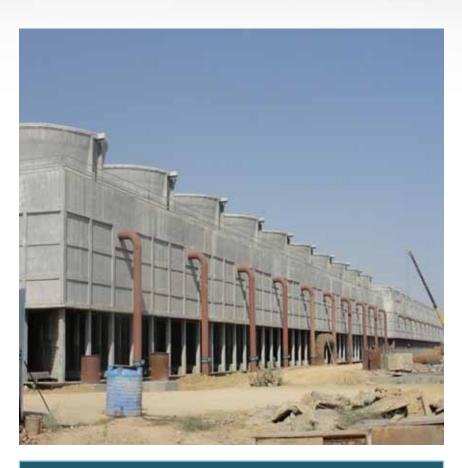




## BARMER POWER PROJECT



## **Control Room**









## RATNAGIRI POWER PROJECT



## **Plant Overview**







## **Turbine Generator IV**





## **Turbine Generator III**



## JSW TOSHIBA PROJECT



## **Plant Overview**





# FORWARD LOOKING & CAUTIONARY STATEMENT



Certain statements in this report concerning our future growth prospects are forward looking statements, which involve a number of risks, and uncertainties that could cause actual results to differ materially from those in such forward looking statements. The risk and uncertainties relating to these statements include, but are not limited to risks and uncertainties regarding fluctuations in earnings, our ability to manage growth, intense competition within Power industry including those factors which may affect our cost advantage, wage increases in India, our ability to attract and retain highly skilled professionals, time and cost overruns on fixed-price, fixed-time frame contracts, our ability to commission mines within contemplated time and costs, our ability to raise the finance within time and cost client concentration, restrictions on immigration, our ability to manage our internal operations, reduced demand for power, our ability to successfully complete and integrate potential acquisitions, liability for damages on our service contracts, the success of the companies in which the Company has made strategic investments, withdrawal of fiscal/governmental incentives, impact of regulatory measures, political instability, legal restrictions on raising capital or acquiring companies outside India, unauthorized use of our intellectual property and general economic conditions affecting our industry. The company does not undertake to update any forward looking statements that may be made from time to time by or on behalf of the company.





Thank