



**JSW** Energy  
*Lighting up a billion dreams*

# EMPOWERING THE NATION

**Q2 FY 2011**

# AGENDA



**Indian Scenario**



**Company Overview**



**Performance Highlights**



**Financial Highlights**



**Status of Projects**



**Business Strategy**



# INDIAN SCENARIO



## INDIA: CHARACTERISED BY POWER SHORTAGE



- 5<sup>th</sup> largest electricity-generating and consuming capacity in the world
- Per capita annual consumption of electricity: 720 kwh
- India makes up 17% of the world population yet consumes only 3% of the world energy

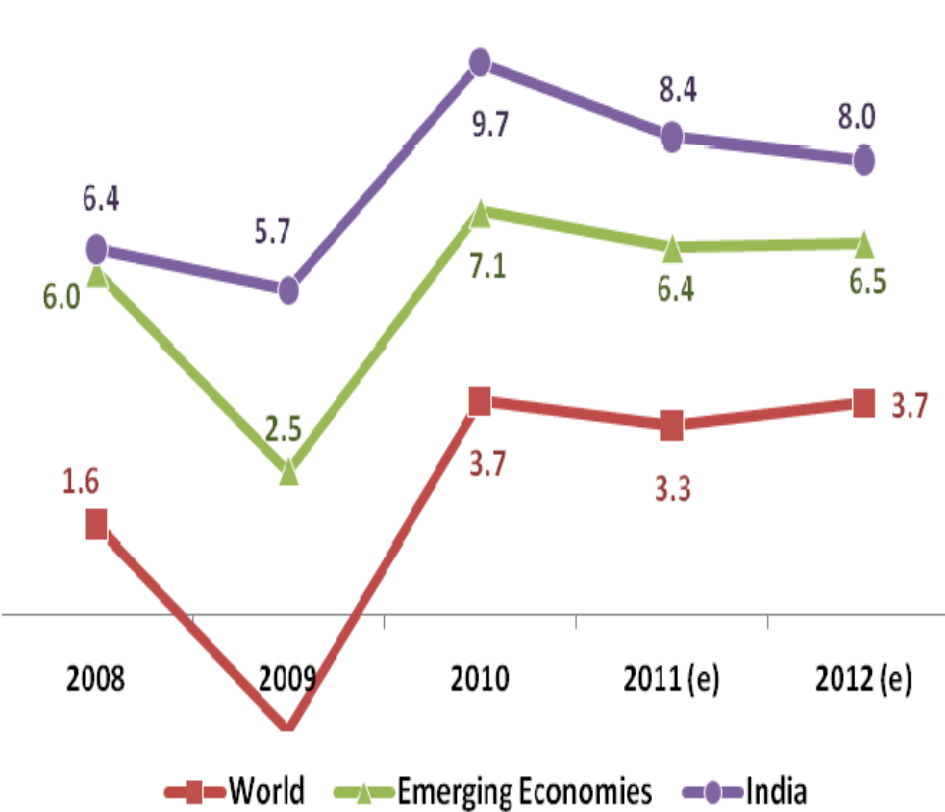




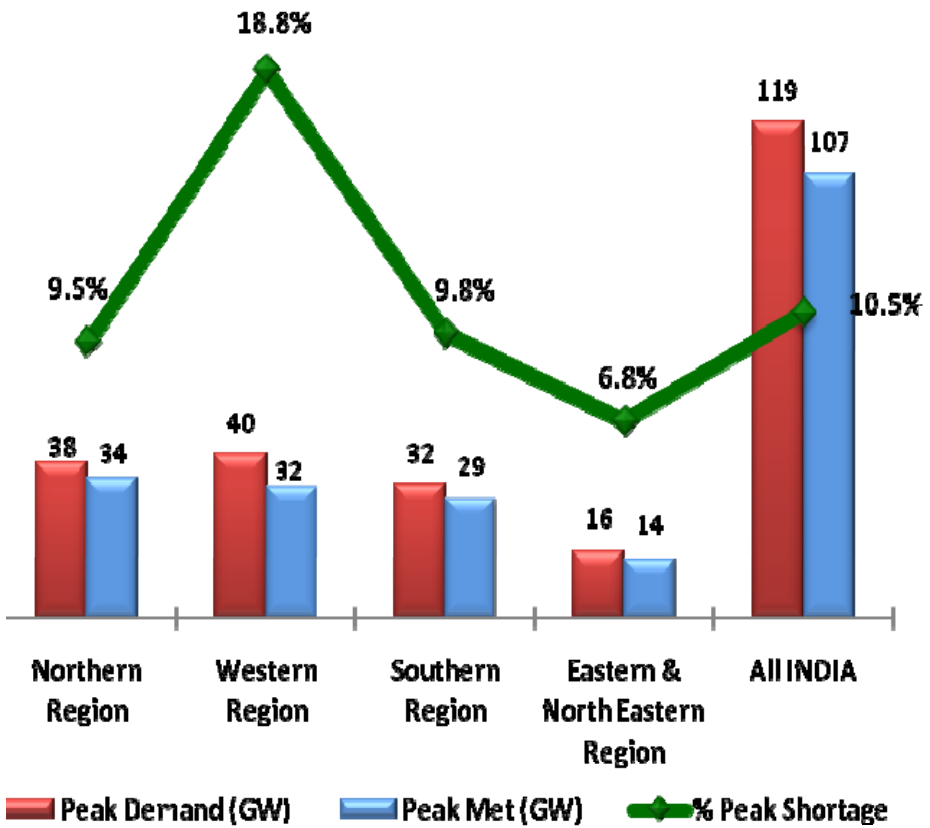
# SUSTAINED ECONOMIC GROWTH LED BY DOMESTIC DEMAND



## India Outshines Global GDP Forecasts

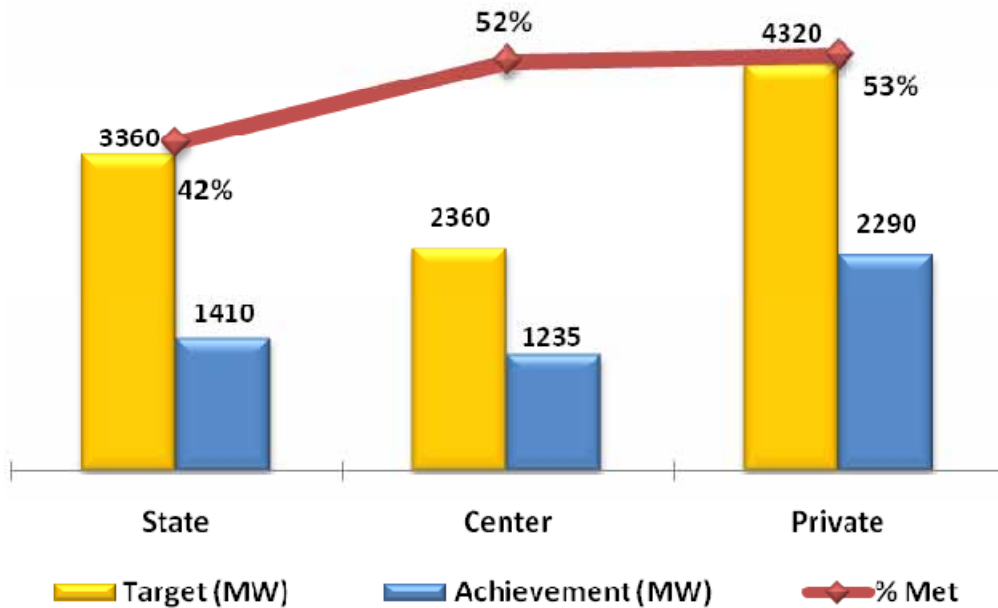


## Power Supply Deficit (Apr-Sep 2010)

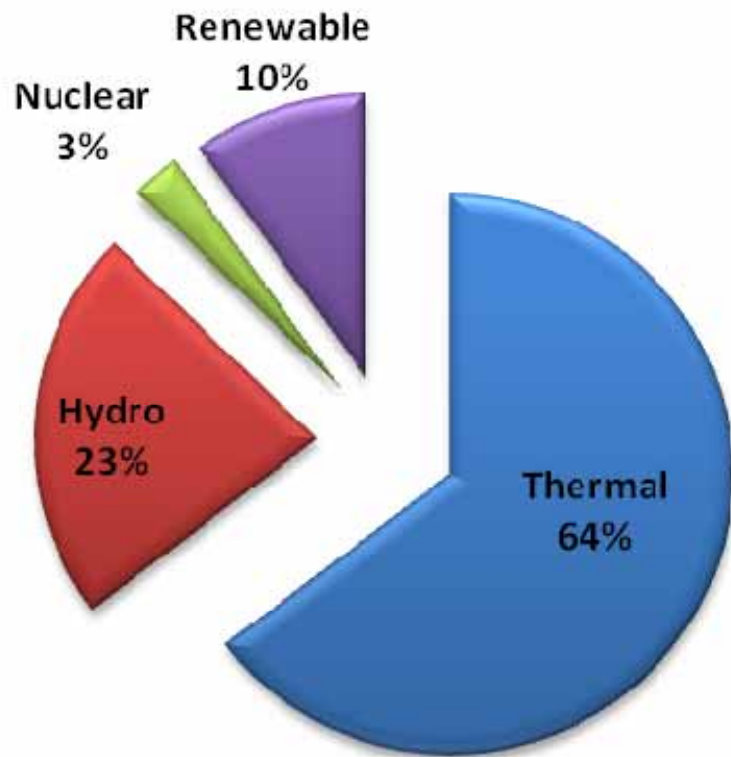


Source: IMF, CEA

**Capacity Addition (Apr 2010 - Sept 2010)**



**Capacity Installed as on September 30, 2010**



**TOTAL CAPACITY: 165 GW**

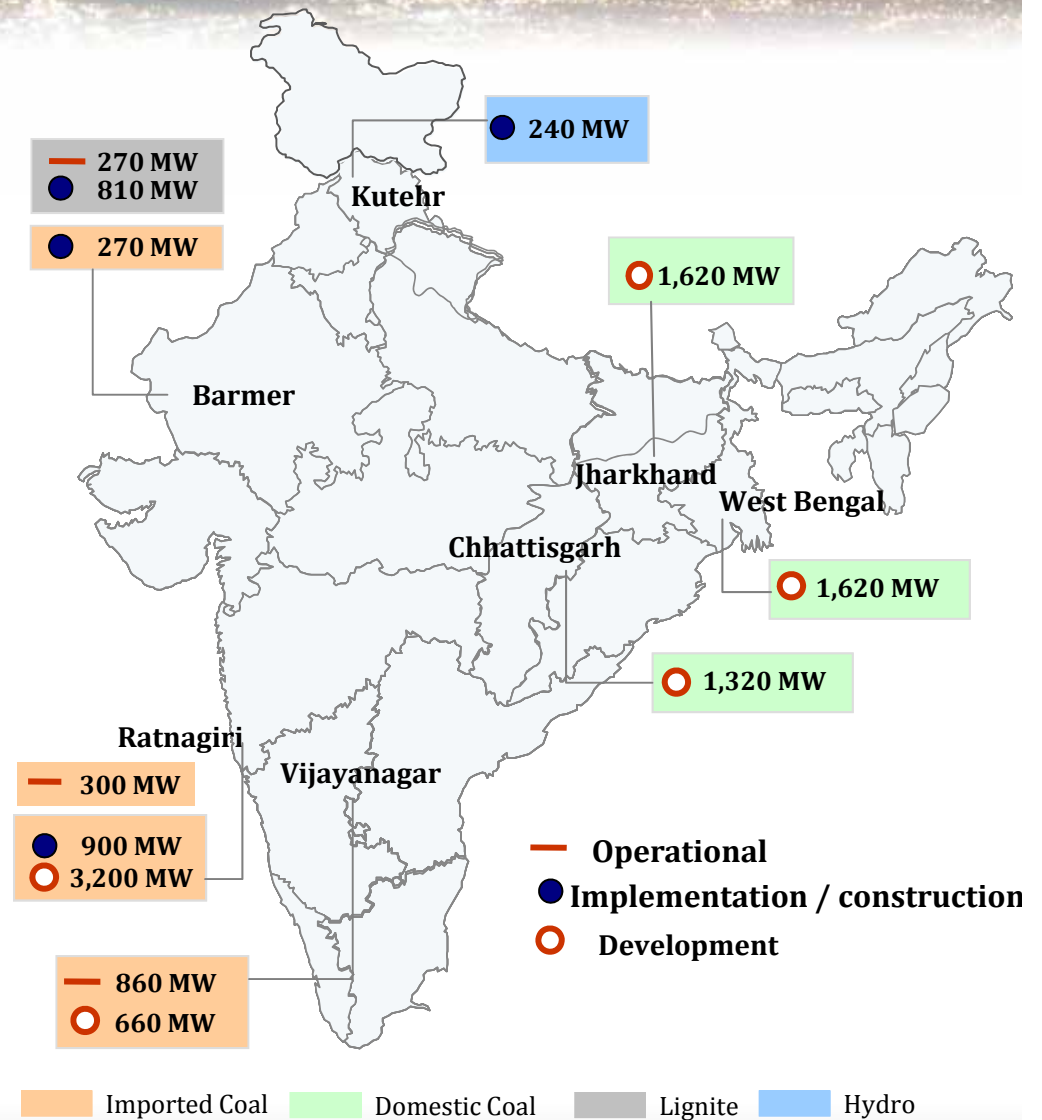




# COMPANY OVERVIEW



- Established power company with profitable operations since inception in FY 2000
- Operating capacity- Current: 1,430 MW
  - By July 2011: 3,140 MW
  - By FY 2016: 12,070 MW





## KEY HIGHLIGHTS

Achieved Commercial Operation Date (COD) on September 1, 2010 for Unit I- 300 MW Ratnagiri Project

Jaigad to New Koyna transmission line 2 successfully charged in July 2010

Five fold growth in capacity on year on year basis

Refinanced Rs. 1,003 Crores of high cost debt  
- Reduction in interest rate by approx 1.47%

Awarded NDTV Profit Business Leadership Award, 2010 in Power Sector

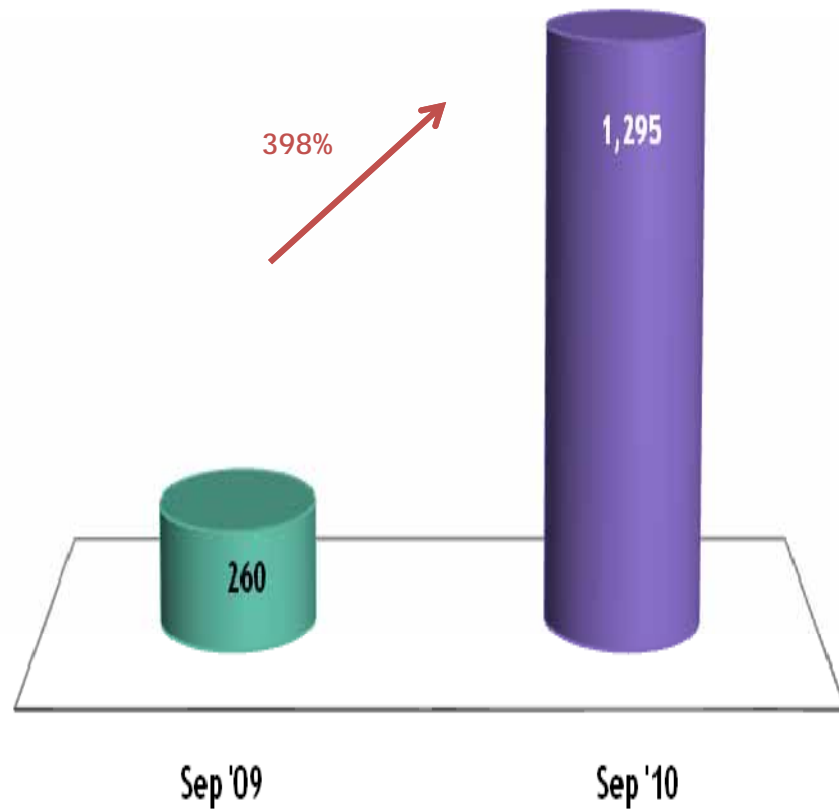
# PERFORMANCE HIGHLIGHTS



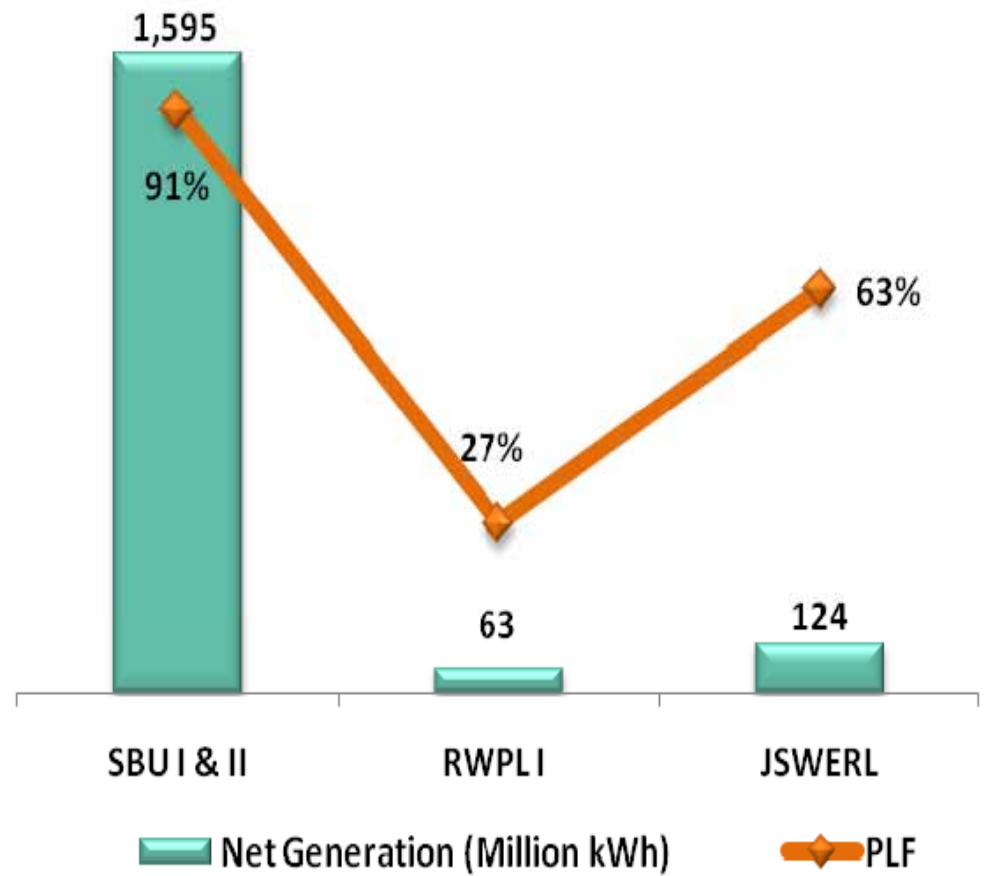


# CAPACITY GROWTH

### Capacity Growth (MW)

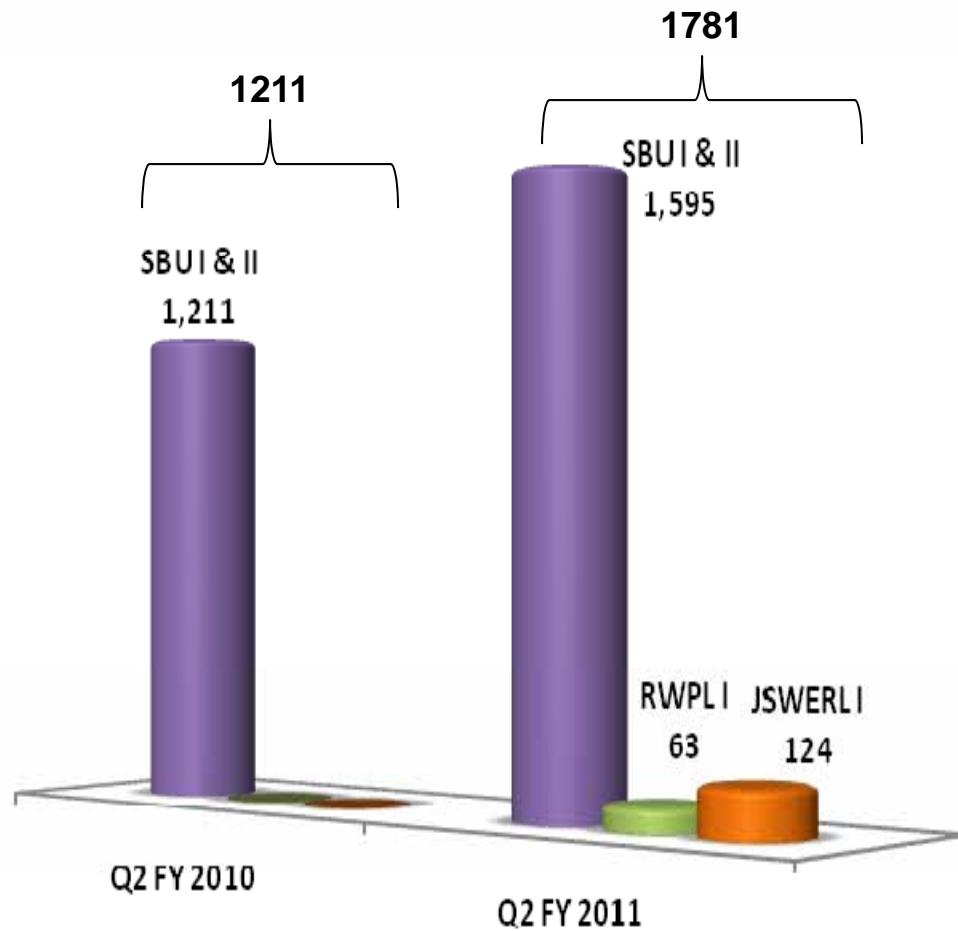


### Plant Wise Performance (Q2 FY 2011)

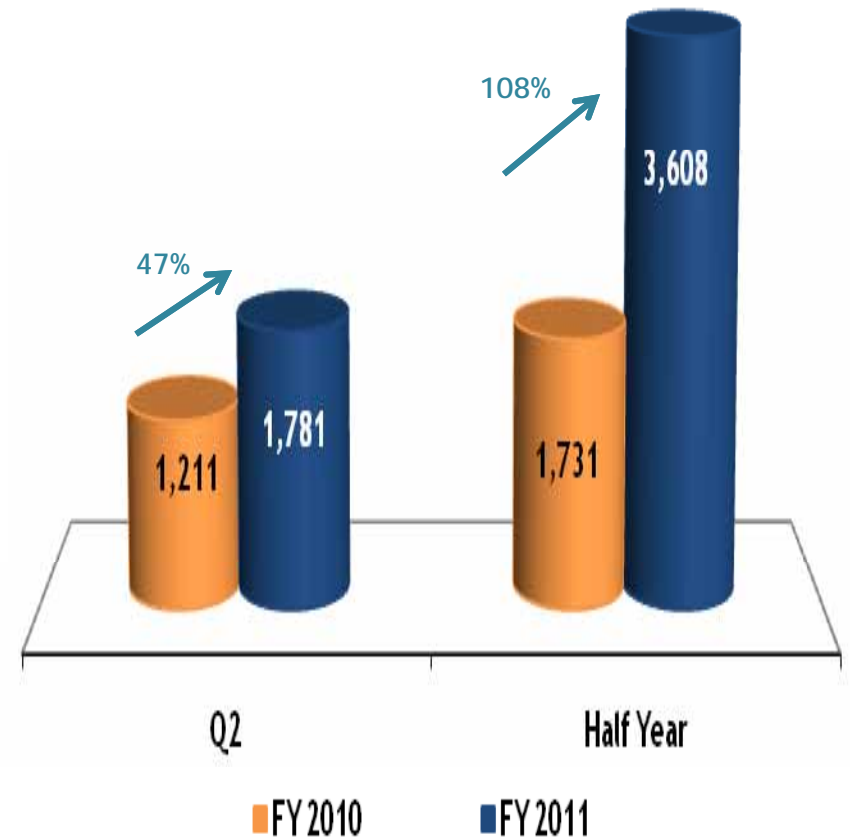


# OPERATIONAL PERFORMANCE

## Net Generation (Million kwh)

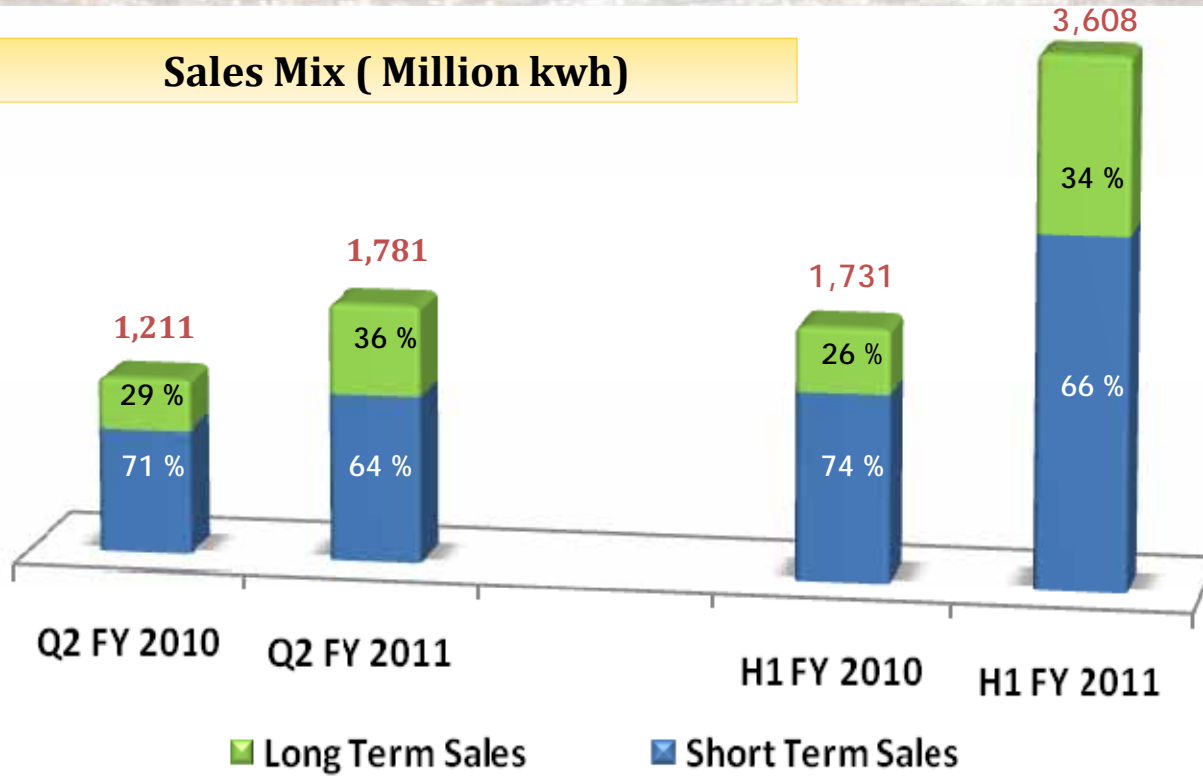


## Volume Growth (Million kwh)



# SALE OF POWER

**Sales Mix ( Million kwh)**



Realisation ` per kwh	Q2 FY 2010	Q2 FY 2011	H1 FY 2010	H1 FY 2011
Short Term Realisation	5.15	4.65	5.51	5.25
Average Realisation	4.61	4.34	4.94	4.71

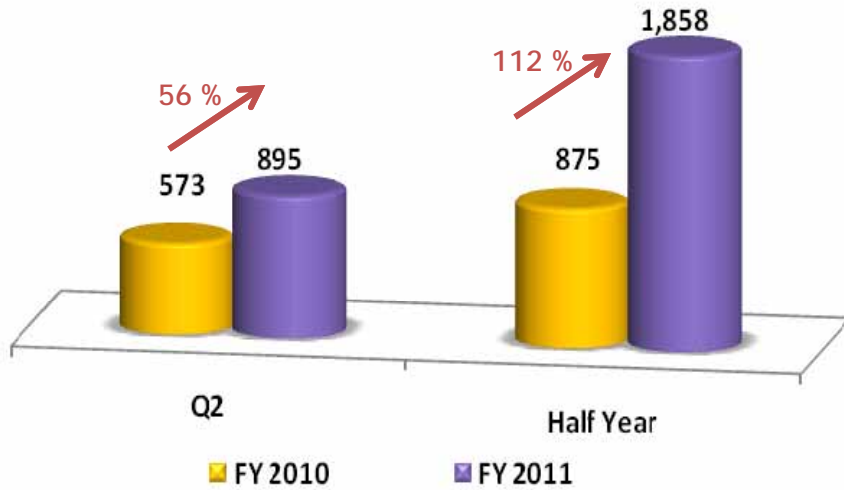


# FINANCIAL HIGHLIGHTS

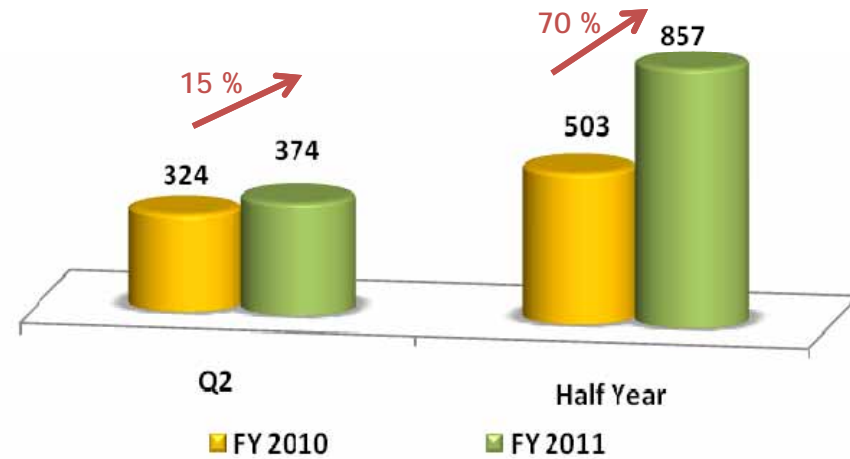


# FINANCIAL HIGHLIGHTS CONSOLIDATED

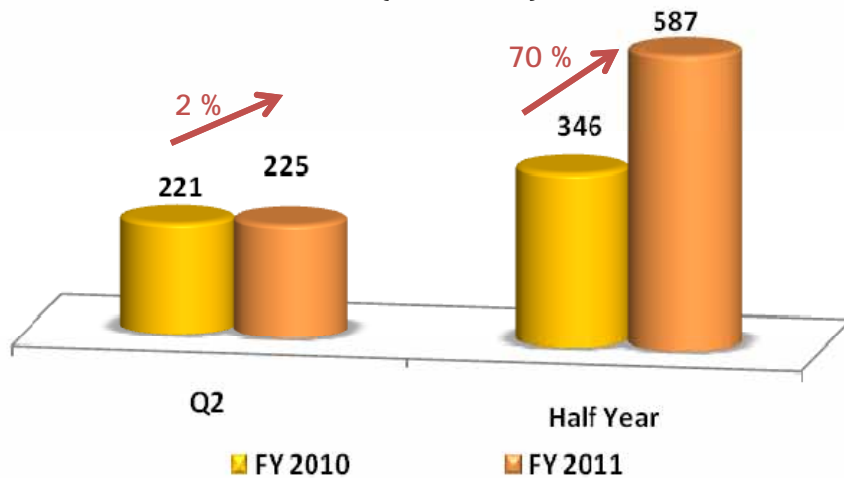
### Turnover (₹ Crores)



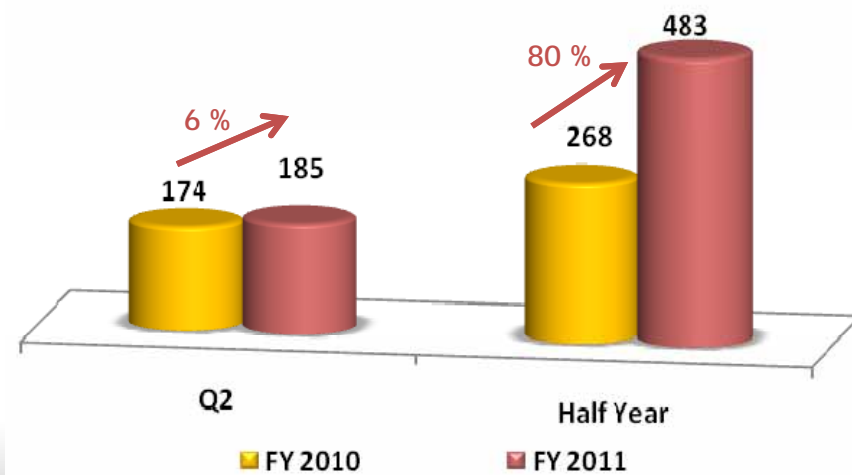
### EBITDA (₹ Crores)



### PBT (₹ Crores)



### PAT (₹ Crores)



# CONSOLIDATED RESULTS



**Q2 FY 2010**

**H1 FY 2010**

**Q2 FY 2011**

**H1 FY 2011**

573	875	Turnover ( ` Crores)	895	1,858
324	503	EBITDA ( ` Crores)	374	857
57%	57%	EBITDA (%)	42%	46%
71	110	Interest ( ` Crores)	94	168
32	47	Depreciation ( ` Crores)	55	102
221	346	PBT ( ` Crores)	225	587
174	268	PAT ( ` Crores)	185	483
1.27	1.96	EPS ( `) (Not Annualised)	1.13	2.95



## CONSOLIDATED FINANCIAL HIGHLIGHTS

**JSW** Energy

	31* March 2010	30th Sept 2010
Net Worth ( ` Crores)	4,780	5,264
Debt ( ` Crores)	7,870	8,634
Net Fixed Assets ( ` Crores) *	11,598	12,474
Debt Equity Ratio (Times)	1.65	1.64
Weighted Average Cost of Debt	11.51 %	11.32 %

\*Including CWIP



# UTILISATION OF IPO PROCEEDS

PARTICULARS	₹ CRORES	
Utilisation upto September 30, 2010	<b>Project Utilisation as per Prospectus</b>	<b>Actual Amount Spent upto Sept 30, 2010</b>
Part Finance for Identified Projects	2142.53	969.31
Repayment of Corporate Debt	470.00	470.00
Share Issue Expenses	75.98	64.52
General Corporate Purpose	11.49	-
Unutilised Amount invested in MF/ Bank FD/ Utilised for reduction of Overdraft	-	1196.17
<b>Gross Proceeds received from IPO</b>	<b>2,700.00</b>	<b>2700.00</b>

**Capacity expansion at Vijayanagar by 660 MW**

**Introduction of Employee Stock Option Scheme (ESOS)**

- Issuance of upto 2,00,00,000 stock options convertible into equal number of equity shares
  - (dilution of 1.20%)
- Subject to approval of shareholders

# STATUS OF PROJECTS







**Project Details**

<b>Gross Capacity</b>	1200 MW, 400 KV Transmission
<b>Technology</b>	Double Circuit Quad Moose Conductor Line
<b>Procurement</b>	Orders placed
<b>Project Cost</b>	<p>ˆ 580 Crores</p> <p>Debt:Equity : 75 :25</p> <p>Actual spent till Sept 30, 2010 :</p> <p>ˆ 377 Crs</p>
<b>Expected Commissioning</b>	February 2011

**Status Update**



•Jaigad - Koyna Line II successfully charged on July 7, 2010



•Jaigad - Karad:

- Tower Foundations: 88%
- Tower Erection: 53%
- Stringing: 16%

**Status Update**

**BLMCL**

**Mine development process commenced at Kapurdi**  
**MOEF Clearance received for Jalipa mines**  
**Mine development plan approved for Jalipa mines**

**Expected to extract lignite by Q4 FY 2011**  
**60% work completed for Kapurdi mines**  
**Land acquisition at advanced stage for Jalipa mines**

**MJSJ Coal**

**Public hearing process completed**

**Land acquisition in process**  
**Target to commence production in 2012**

**JSW Toshiba**

**Blade shop machining centre equipment received**  
**Temporary power received at site**

**Total project completion 54%**  
**Progress for Blade Shop 97%**  
**Blade manufacturing by 2011**  
**Manufacturing of TG sets by 2012**

# GENERATION PROJECTS







## 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 :PPA for entire capacity with state Government distribution utilities

### Project Cost

~ 6085 Crs  
Debt / Equity: 75:25  
Amt spent till Sept 30, 2010:  
~ 4790 Crs

## Status Update

- Unit II COD October 4, 2010
- PLF of 73.85% for Unit I during September 2010
- Unit III & IV boiler hydro test completed
- Raw Water pipe line commissioned
- Tapering coal linkage approved by Ministry of Coal for 50% of coal requirement



# JSW ENERGY RATNAGIRI LTD. I



## Project Details

## Status Update

<b>Gross Capacity</b>	1200 MW (4 x 300)
<b>Technology</b>	Sub-critical Imported Coal based TPP
<b>Fuel Linkage</b>	Long term supply arrangement for Indonesian coal & mines in South Africa
<b>Water Allocation</b>	MIDC + Sea Water
<b>Power Off take</b>	300 MW to MSEDCL for 25 years with pass through Ability to avail short term rates for balance 900 MW
<b>Project Cost</b>	~ 5650 Crs Debt / Equity: 75:25 Amt spent till Sept 30, 2010: ~ 4056 Crs
<b>Expected Commissioning</b>	Unit I COD achieved on September 1, 2010 Entire project expected by FY 2011



- Boiler II light up done & steam blowing started
- Unit II synchronization expected in November 2010
- TG put on barring for Unit II
- Boiler III & IV hydro test completed

•Commissioning of critical equipments in progress

# WEST BENGAL POWER PROJECT – 1620 MW



## Project Details

<b>Gross Capacity</b>	1620 MW
<b>Technology</b>	Super-critical Domestic coal based TPP
<b>Share Holding</b>	74 % - JSWEL 26 % - JSW Bengal Steel Limited
<b>Fuel Linkage</b>	Ichhapur Mines- WBMDTC to supply fuel
<b>Power Off take</b>	Captive sale to the steel plant on two part tariff framework and excess for outside sale
<b>Project Cost Phase - I</b>	` 3,300 Crs for Power plant ` 1,500 Crs for Mines Development Amt spent till Sept 30, 2010 : ` 32 Crs
<b>Expected Commissioning Phase - I</b>	October 2014

## Status Update

- Water availability study conducted
- In principle approval received for entering into a LT PPA for surplus power
- Agreement executed for coal raising & coal procurement
- DPR finalised
- Bids invited for BTG equipment supply
- Land in possession



# CHATTISGARH POWER PROJECT – 2 X 660 MW



## Project Details

## Status Update

<b>Gross Capacity</b>	1,320 MW (2 x 660)
<b>Technology</b>	Super-critical domestic coal based TPP
<b>Authority</b>	MoU signed with GoCG for setting up a TPP along with integrated coal mine
<b>Fuel Linkage</b>	11% interest in coal block jointly allocated; applied for additional coal linkage
<b>Water Allocation</b>	35 mn cmpa water allocated from Mahanadi River
<b>Power Offtake</b>	Combination of LTPPA and short term agreements with JSWPTC; 35% to State Govt.
<b>Project Cost</b>	~ 6,500 Crs Amt spent till Sept 30, 2010 : ~ 38 Crs
<b>Expected Commissioning</b>	2014

- Consent for chimney clearance given by Airport Authority
- Tender documents for BTG issued
- Public hearing completed in August 2010
- Water allocation obtained from Mahanadi river on September 8, 2010
- Topography survey and geo-technical investigations completed
- Land acquisition in progress - 225 acres already acquired

# KUTEHR HYDRO PROJECT – 3 X 80 MW



## Project Details

## Status Update

### 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

~ 1798 Crs  
Amt spent till Sept 30, 2010 :  
~ 91 Crs

### Expected Commissioning

2015

- Prequalification of vendors completed for Main Civil Works

- Public hearing for Environment clearance held successfully

- Techno Economic Clearance from CEA received on August 30, 2010

- Land acquisition under progress – All six affected Gram panchayats have given NOC

- Environment clearance meeting scheduled for 12<sup>th</sup> November, 2010

- Bid documents for main civil works under final stage of preparation

# JSWEL, VIJAYANAGAR – 1 X 660 MW



## Project Details

<b>Gross Capacity</b>	660 MW (1 x 660)
<b>Technology</b>	Super critical coal based TPP
<b>Fuel Linkage</b>	Imported coal / Domestic linkage coal
<b>Water Source</b>	Almatti Dam
<b>Power Off take</b>	Merchant power & Long Term PPA
<b>Project Cost</b>	Total Cost: ` 3,300 Crs
<b>Expected Commissioning</b>	2014

## Status Update

- Land identified
- MOEF approval being applied for



# RAJ WEST POWER LTD. II - 2 X 135 MW



## Project Details

<b>Gross Capacity</b>	270 MW (2 x 135)
<b>Technology</b>	Subcritical Captive lignite based TPP
<b>Fuel Linkage</b>	Applied to Ministry of Coal
<b>Water Allocation</b>	Allocation from IGNP
<b>Power Off take</b>	Short Term power purchase arrangements
<b>Project Cost</b>	Total Cost: ` 1350 Crs Amount spent till Sept 30, 2010 : ` 61 Crs
<b>Expected Commissioning</b>	2014-2015

## Status Update

- Land in possession
- Applied for coal linkage



## Project Details

<b>Gross Capacity</b>	3,200 MW (4 x 800)
<b>Technology</b>	Super-critical imported coal based TPP
<b>Authority</b>	Letter of support from Government of Maharashtra
<b>Fuel Linkage</b>	Imported Coal
<b>Water Allocation</b>	Sea Water
<b>Power Offtake</b>	Combination of LTTPA and short term agreements
<b>Project Cost</b>	~ 150 Bn. Amt spent till Sept 30, 2010: ~ 45 Crs
<b>Expected Commissioning</b>	2016

## Status Update



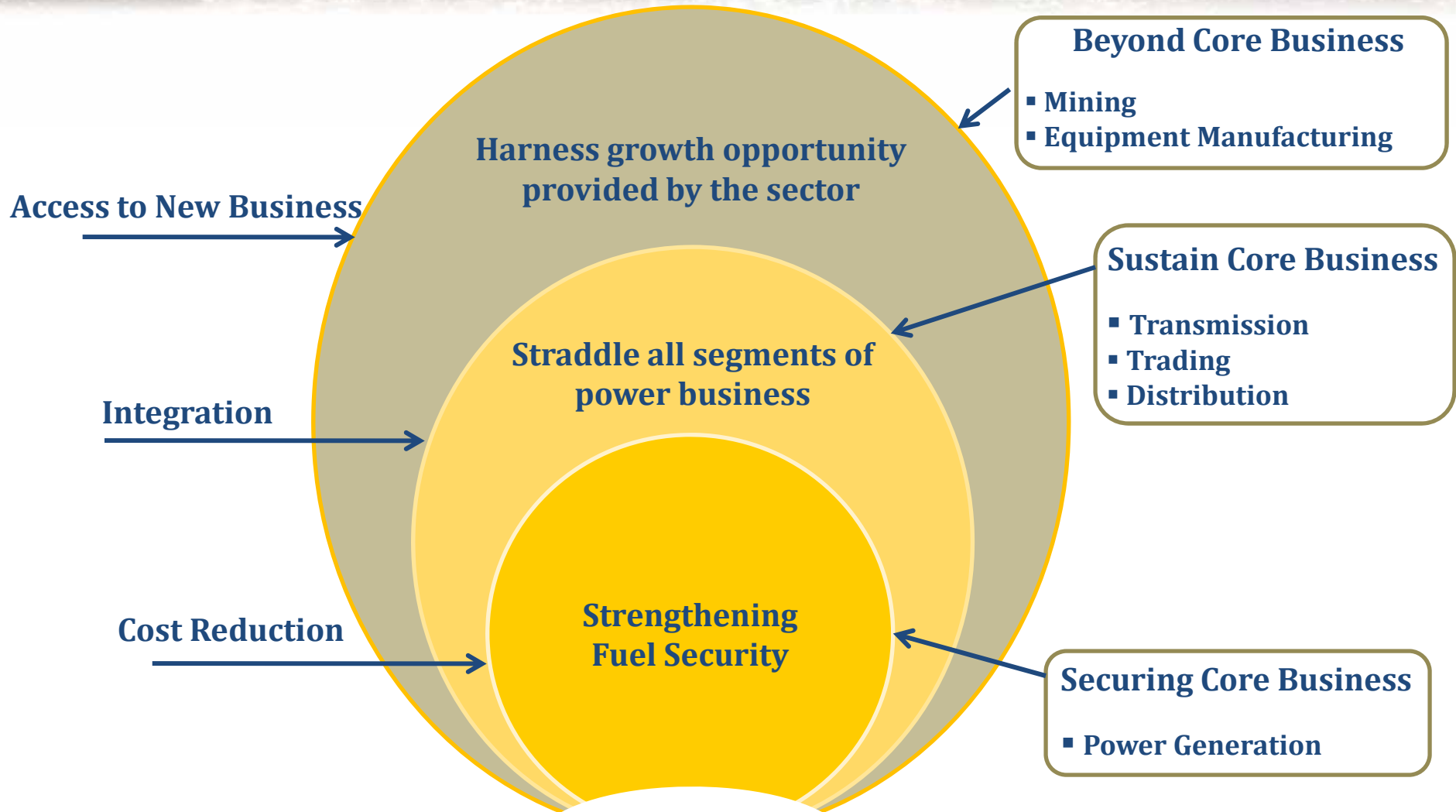
•Substantial land in possession



•In the process of obtaining necessary consents and approvals

A silhouette of a hand moving a chess piece on a board, symbolizing business strategy. The hand is positioned in the upper right, holding a piece and moving it towards the center. Below the hand, a row of chess pieces is visible, including a king, queen, and several pawns. The background is a light, textured surface.

## **BUSINESS STRATEGY**





**Plant Overview**







As on June 30, 2010

As on September 30, 2010





**As on June 30, 2010**

**As on September 30, 2010**







TG 4



TG 3



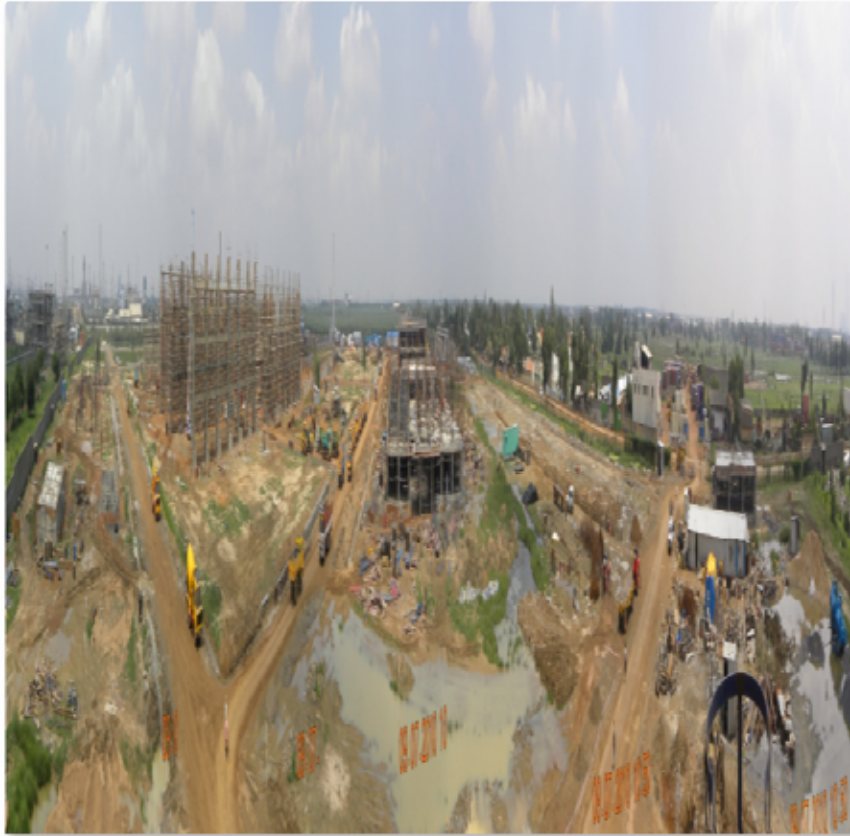


As on June 30, 2010

As on September 30, 2010







**As on June 30, 2010**

**As on September 30, 2010**





*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 you