Jaiprakash Hydro-Power Limited

Investor Presentation

AUGUST 2009

Disclaimer

This document has been prepared for information purposes only and is not an offer or invitation or recommendation to buy or sell any securities of Jaiprakash Hydro-Power Limited (the "Company"), nor shall part, or all, of this document form the basis of, or be relied on in connection with, any contract or investment decision in relation to any securities of the Company.

This document is strictly confidential and may not be copied, published, distributed or transmitted to any person, in whole or in part, by any medium or in any form for any purpose. The information in this document is being provided by the Company and is subject to change without notice. The Company relies on information obtained from sources believed to be reliable but does not guarantee its accuracy or completeness.

This document contains statements about future events and expectations that are forward-looking statements. These statements typically contain words such as "expects" and "anticipates" and words of similar import. Any statement in this document that is not a statement of historical fact is a forward-looking statement that involves known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. None of the future projections, expectations, estimates or prospects in this document should be taken as forecasts or promises nor should they be taken as implying any indication, assurance or guarantee that the assumptions on which such future projections, expectations, estimates or prospects have been prepared are correct or exhaustive or, in the case of the assumptions, fully stated in the document. The Company assumes no obligations to update the forward-looking statements contained herein to reflect actual results, changes in assumptions or changes in factors affecting these statements.

You acknowledge that you will be solely responsible for your own assessment of the market, the market position, the business and financial condition of the Company and that you will conduct your own analysis and be solely responsible for forming your own view of the potential future performance of the business of the Company.

This document speaks as of 31st August ’2009. Neither the delivery of this document nor any further discussions of the Company with any of the recipients shall, under any circumstances, create any implication that there has been no change in the affairs of the Company since that date.

1 USD = 50.72 INR (As on March 31st ’2009)

Overview of Jaypee Group

Jaypee Group At A Glance

Jaypee Group is a leading integrated infrastructure conglomerate in India with exposure to the power generation, cement, construction and real estate sectors

Engineering & Construction

- **54.3% participation in hydro power projects developed in 10th Five year plan**

- **Largest Private Hydropower Group**
  - 700MW operational
  - 1000MW in Karcham Wangtoo (scheduled for commissioning in early 2011)
  - 3920MW under various stages of development

Power Generation

- **Thermal Power**
  - 500 MW at Bina under "fast track" development
  - 1320 MW at Nigrie with captive coal – order placed with L&T-MHI
  - Recently awarded 5280MW at Bara & Karchana

JAIPRAKASH ASSOCIATES LIMITED

Cement

3rd Largest Cement Group with 25 MTPA capacity by 2010 & 35.5 MTPA by 2012

14.7 million tpa capacity in operation

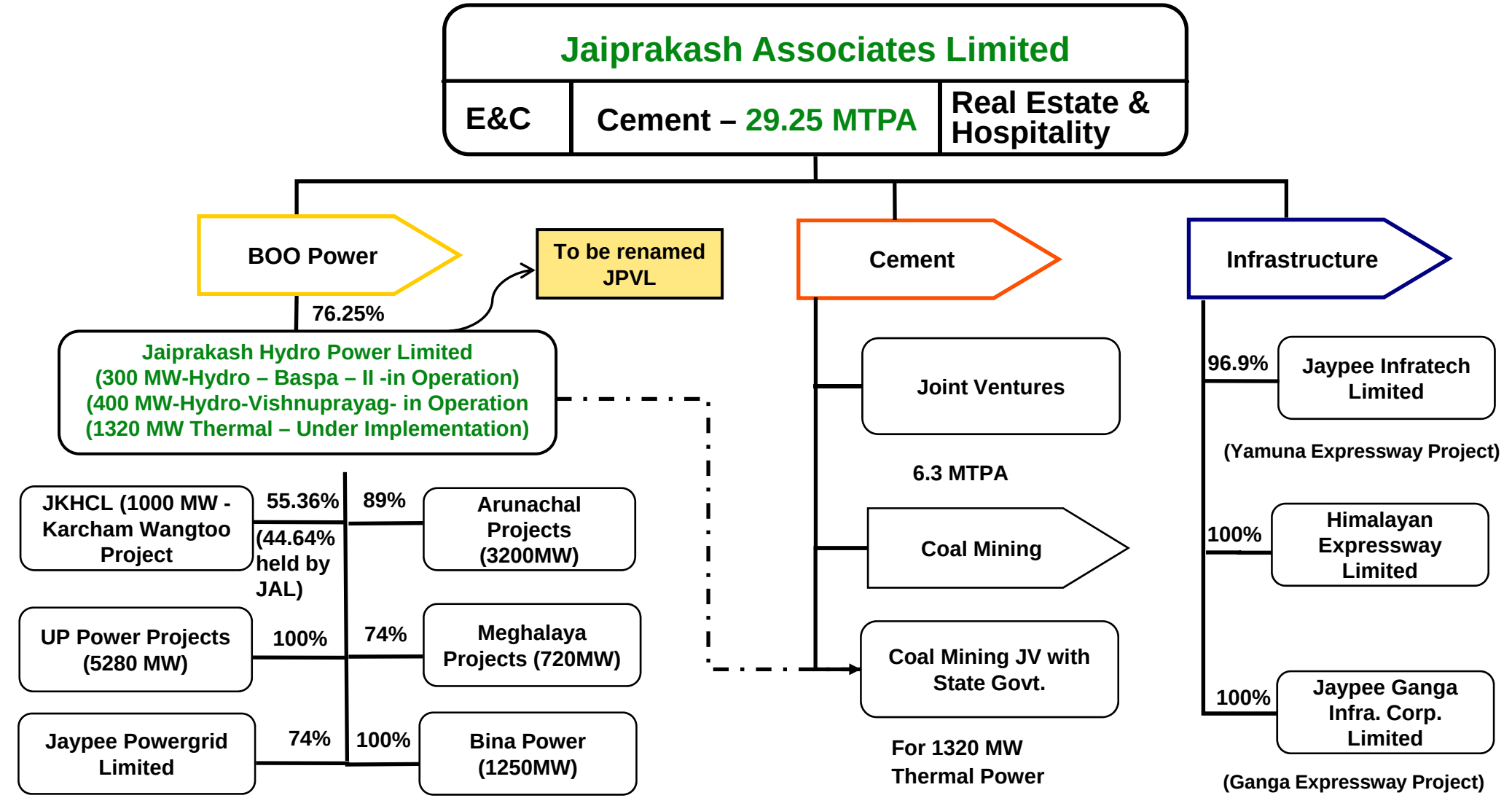
- **165 km Yamuna Expressway from Noida to Agra**

- **1,047 km Ganga Expressway from Noida to Ballia**

Real Estate & Expressways

- **Real Estate Development**
  - **Yamuna expressway: 400 Mn. sq feet**
  - **Ganga expressway: Approx. 3.3 Bn. sq feet**

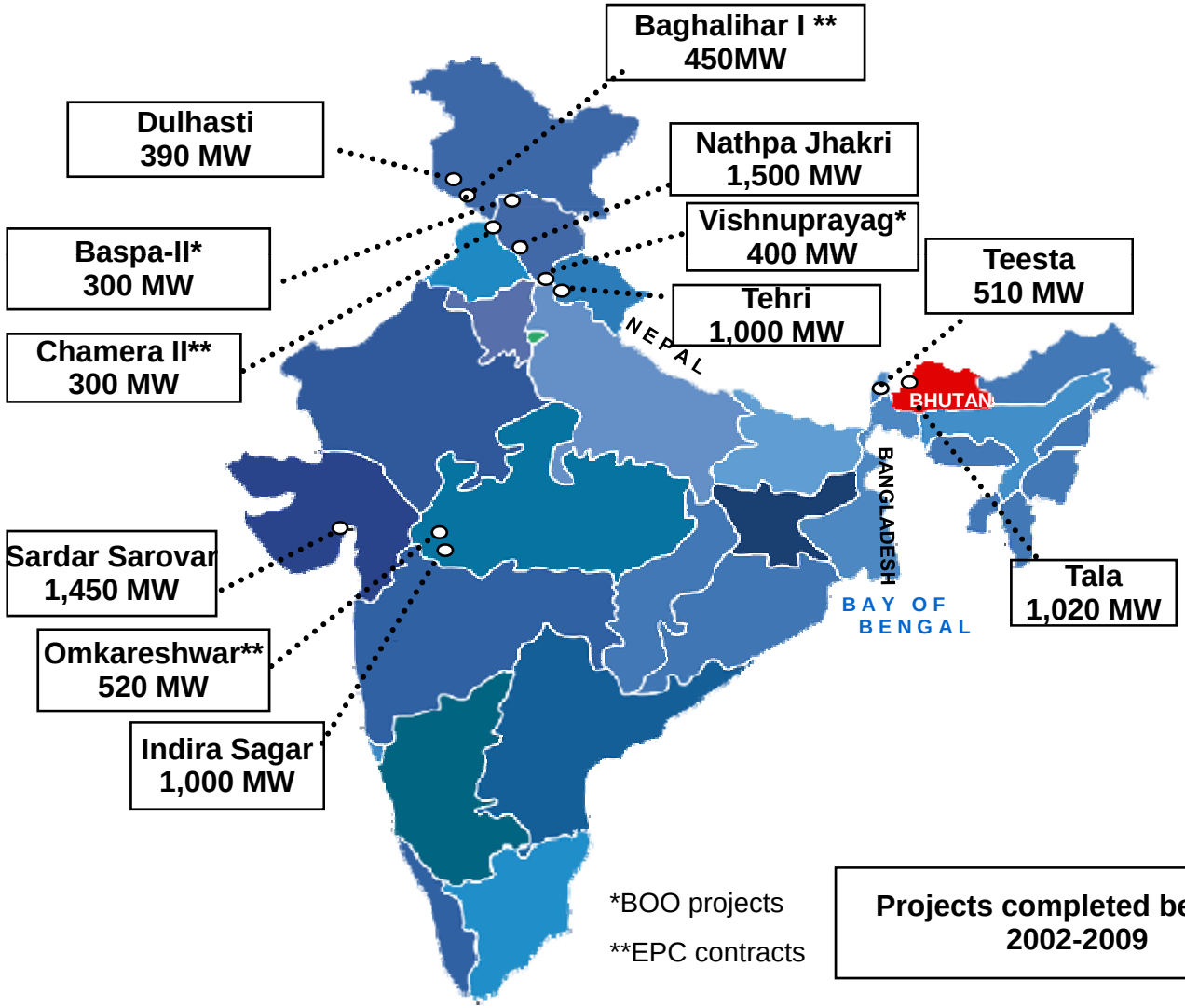
Corporate Structure – Post Amalgamation



JAL symbolizes integration of India's Infrastructure sector –present in all key infrastructure sectors in the country

Demonstrated Execution Capability of JAL – Completed HEPs Generating 8840 MW between 2002-2009

JAL is the leader in the construction of multi-purpose river valley and hydropower projects and has been involved in construction of major engineering projects over the last 4 decades



*BOO projects

**EPC contracts

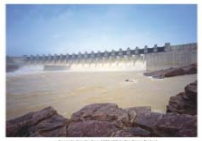
Projects completed between 2002-2009

PROUD TO PARTICIPATE IN:

Largest Concrete Dam in India – Sardar Sarovar

Largest Rockfill Dam in India – Tehri

Largest Underground Powerhouse in India– Naptha-Jhakri



Second Largest Surface Powerhouse in India – Indira-Sagar

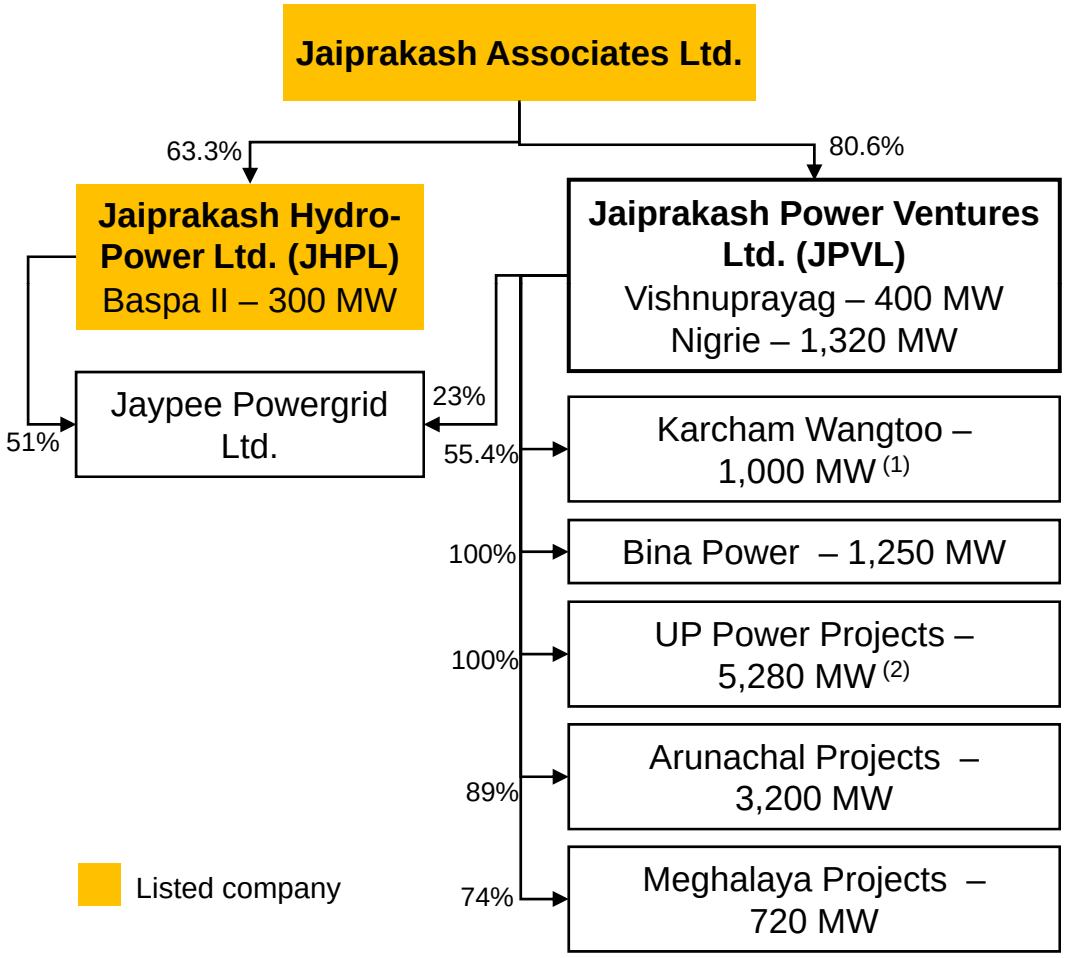
2002-2008 : 8840 MW added to the National Grid

Name of Project		Client & State/Country	2002- 05	2005-06	2006-07	2007-08	2008-09	Total (MW)
BUILD-OWN-OPERATE								
1.	Baspa	JHPL, H.P.	300					300
2.	Vishnuprayag	JPVL, Uttranchal			400			400
ENGINEERING – PROCUREMENT – CONSTRUCTION (EPC) CONTRACTS								
3.	Chamera-II	NHPC, H.P.	300					300
4.	Omkareshwar	NHDC, M.P.				520		520
5.	Baglihar	JKSPDC					450	450
CONTRACTS WITH VARIOUS GOVERNMENT AGENCIES								
6.	Indira Sagar (Dam & Powerhouse)	NHDC, M.P.	1000					1000
7.	Nathpa Jakhari (Power House, Penstocks)	SJVNL, HP	1500					1500
8.	Dul-Hasti (Dam, Powerhouse & HRT)	NHPC, J&K			390			390
9.	Tehri (Rock-fill Dam & Spillways)	THDC, Uttranchal			1000			1000
10.	Teesta-V (Dam & Power House)	NHPC, Sikkim				510		510
11.	Sardar Sarovar (Main Dam & PowerHouse)	SSNN, Gujarat		250	1200			1450
12.	Tala (Powerhouse & HRT)	THPA, Bhutan			1020			1020
GRAND TOTAL (MW)			***3100***	***250***	***4010***	***1030***	***450***	***8840***

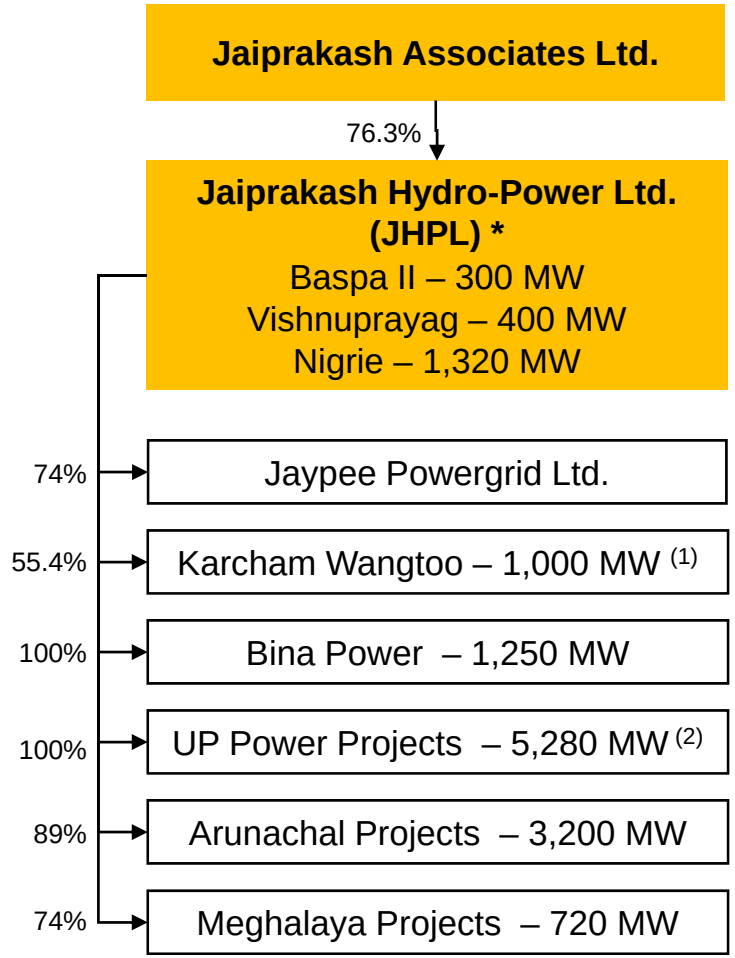
Proposed Restructuring of Group's Power Business

JHPL & JPVL Merger

Pre-Amalgamation



Post-Amalgamation



(1) The balance 44.6% is held by Jaiprakash Associates Limited

(2) Includes Karchana and Bara projects in the SPVs Sangam Power Generation Co. Ltd. and Prayagraj Power Generation Co. Ltd. Jaiprakash Associates Ltd. Has the right to subscribe up to 26% equity in these projects

Note: *** Jaiprakash Hydro-Power Limited will be renamed as Jaiprakash Power Ventures Ltd. post the amalgamation**

Highlights of the Merger

Rationale for Merger

- Creation of a single entity for Jaypee group's power business
- Helps in consolidating its position as leading company in the power sector, with unmatched Thermal: Hydro mix in the Private Sector
- Gives a stronger balance-sheet enabling the company to participate in larger projects
- Enables investors and existing shareholders to participate in diverse power assets and revenue streams that are a healthy mix of PPAs and merchant power
- Creates a simplified holding structure enabling better utilisation of resources and capital of the group

Highlights of the scheme

- JPVL shareholders to receive 3 shares of JHPL against every share in JPVL
- Renowned chartered accountant firm has undertaken valuation using:
  - Price Earnings Capitalisation Value (PECV) approach
  - Net Asset Value (NAV) approach
  - Market Value (MV) approach
- Balance sheets used for purpose of valuation are as of 31st March, 2009
- SEBI approved Category I merchant banker has approved the valuation
- Karchana and Bara projects (UP projects) in JPVL were not considered for purposes of valuation

Timeline for Merger

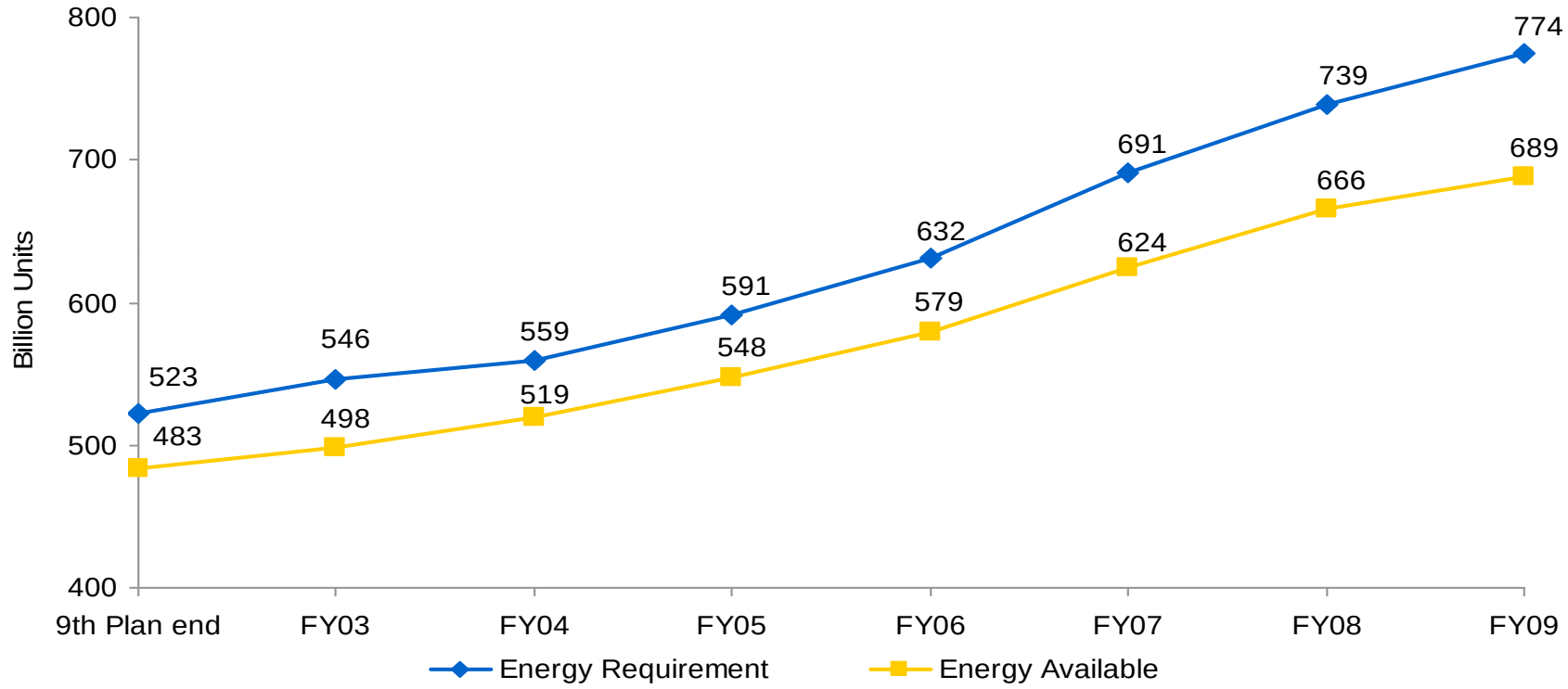
S.N.	Activity	Timeline
1.	Board approval for merger; JHPL & JPVL	3rd July'09
2.	In-principle stock exchange approvals received - NSE BSE	30th July'09 3rd August'09
3.	First motion with Hon. High Court of Himachal Pradesh at Shimla seeking direction under Sec. 391 of Indian Companies Act for convening shareholders and creditors meeting	20th August'09
4.	Shareholders and creditors consent meeting	Expected mid October'09
5.	File Petition for approval of scheme of amalgamation	Expected end October'09
6.	Publication of notices in newspapers inviting objections to the scheme	Expected end October'09/ early November
7.	Subsequent steps shall be dependent on date of hearing of petition as in Sr. 5 above in Hon'ble High Court of Himachal Pradesh at Shimla	

Note: Timeline specified in this slide is subject to court rulings

Indian Power Sector

Shortage of Power in India

Electricity demand and supply

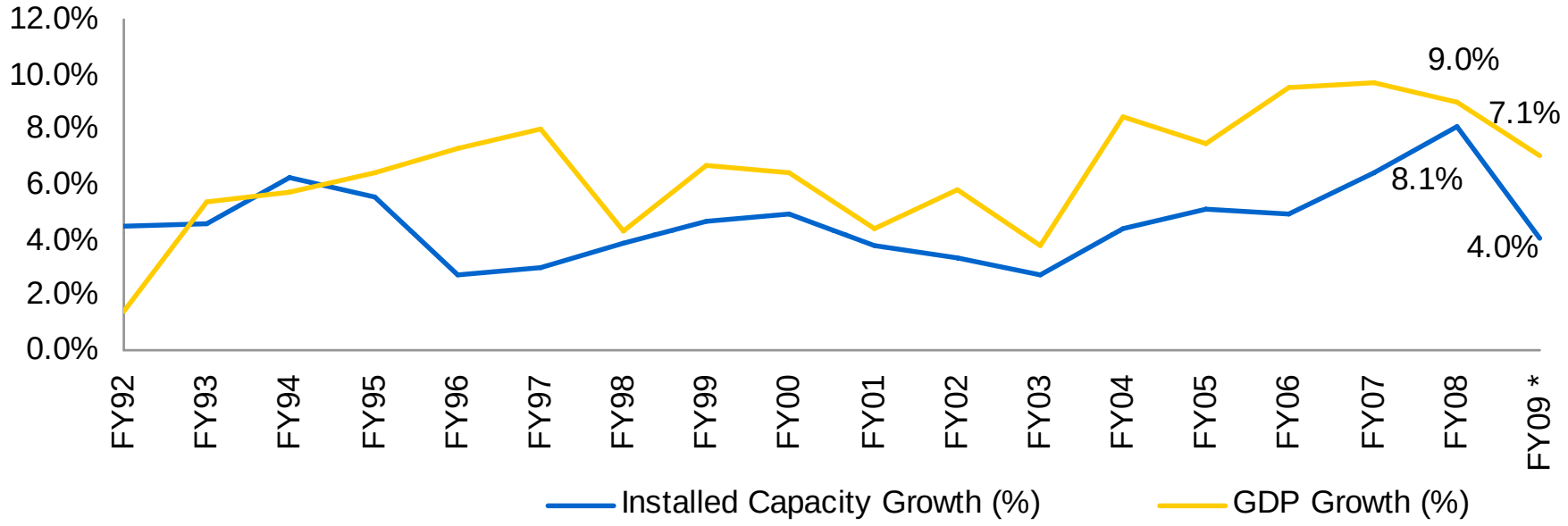


The Power shortage problem is more acute in the North, West and the North-East regions where deficits were between 10% and 13.5% for Apr-Jun FY09

Average per-capita consumption is rising at a rapid pace. The pace of growth in India will demand rapid increases in capacity generation in India. The per-capita consumption is expected to be ~1,000 KWh by FY12 resulting in a 50% growth in the XIth Plan

Source: Power Scenario at a Glance, CEA, July 2009
Hydro Power Policy, MoP, 2008 and Monthly Review of the Power Sector (Executive Summary), May 2009

Installed Capacity Growth Lower than GDP Growth



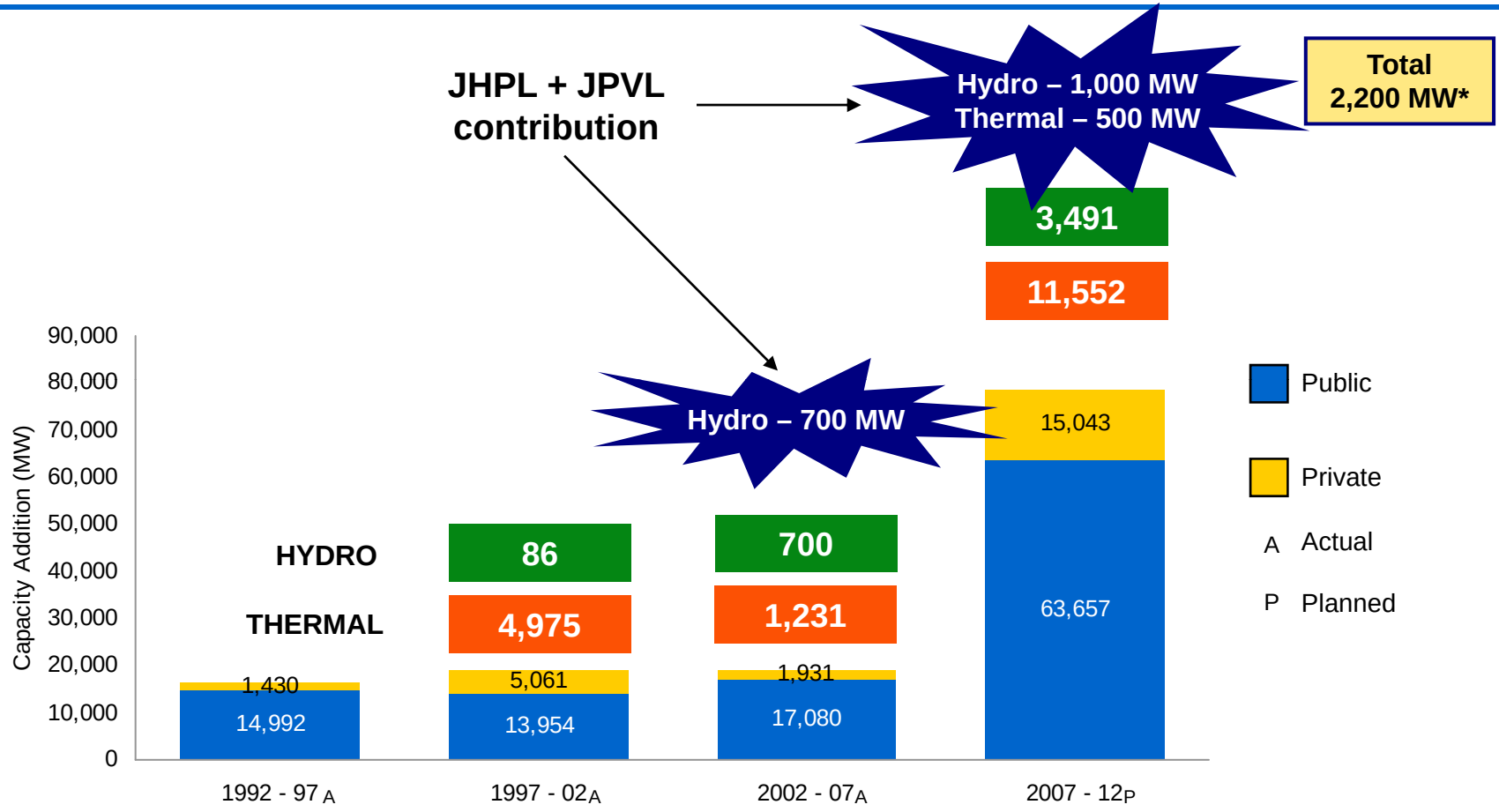
Over the past 15 years, GDP growth almost always been greater than installed capacity growth

The Power shortage situation in India has worsened over the last decade, with the energy deficit increasing from 7.5% at the end of the 9th Plan to 11% in FY09

* Installed capacity growth annualised using June 09 installed capacity number

Source: Planning Commission website, GoI, & Ministry of Power

Increasing Role of Private Sector



Thermal and Hydro account for ~89% of the current installed capacity

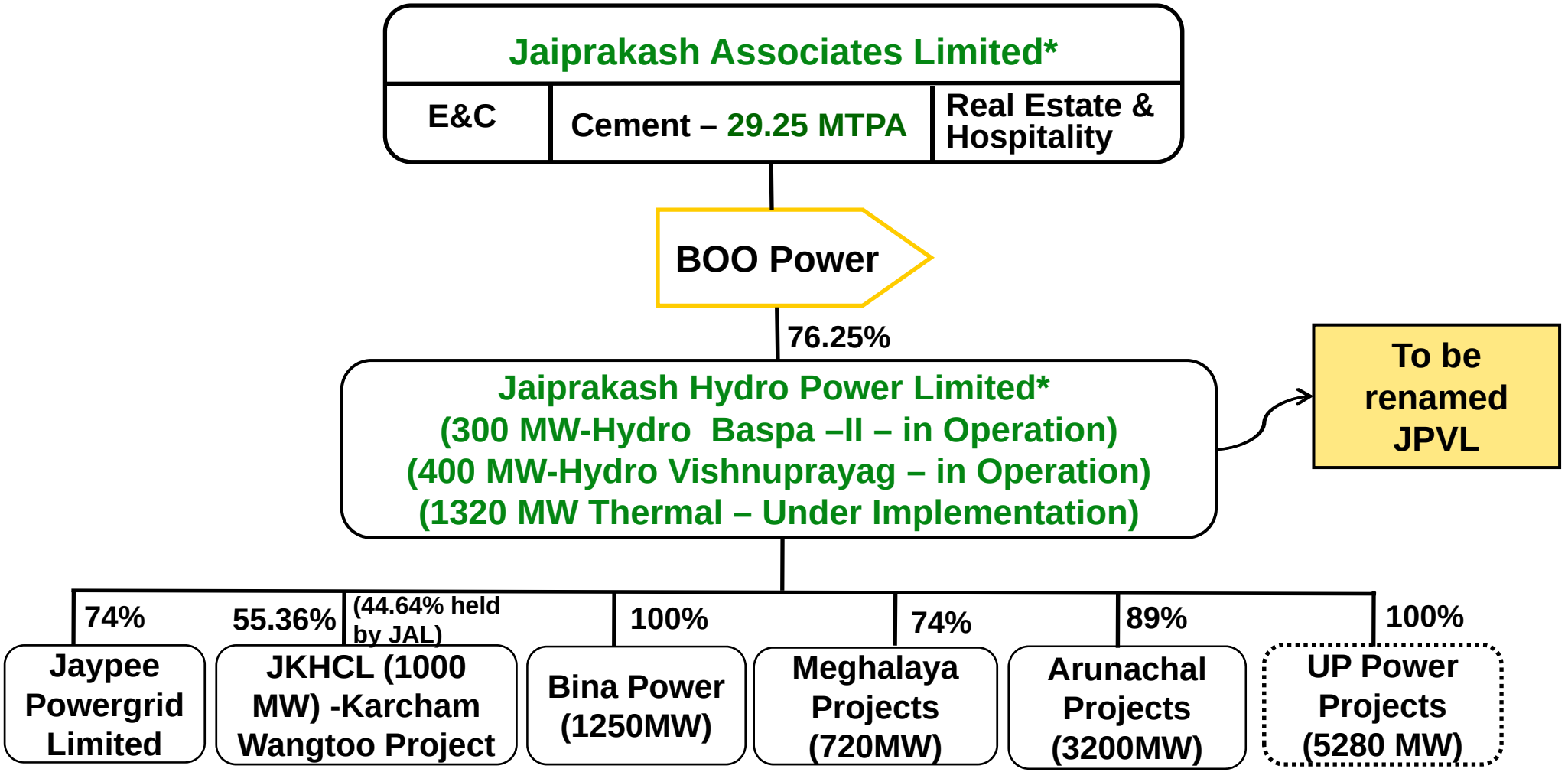
In terms of additions planned in the 11th plan, ~75GW out of the 79GW planned are in the Thermal and Hydro power sectors. Jaypee group will contribute 1,000 MW in the Hydro sector and 500 MW in the Thermal sector in the 11th plan*

* In addition Jaypee Group shall also add 700 MW of coal based Captive Power Plants during the 11th plan period

Source: Ministry of Power, Power Scenario at a Glance, CEA, July 2009

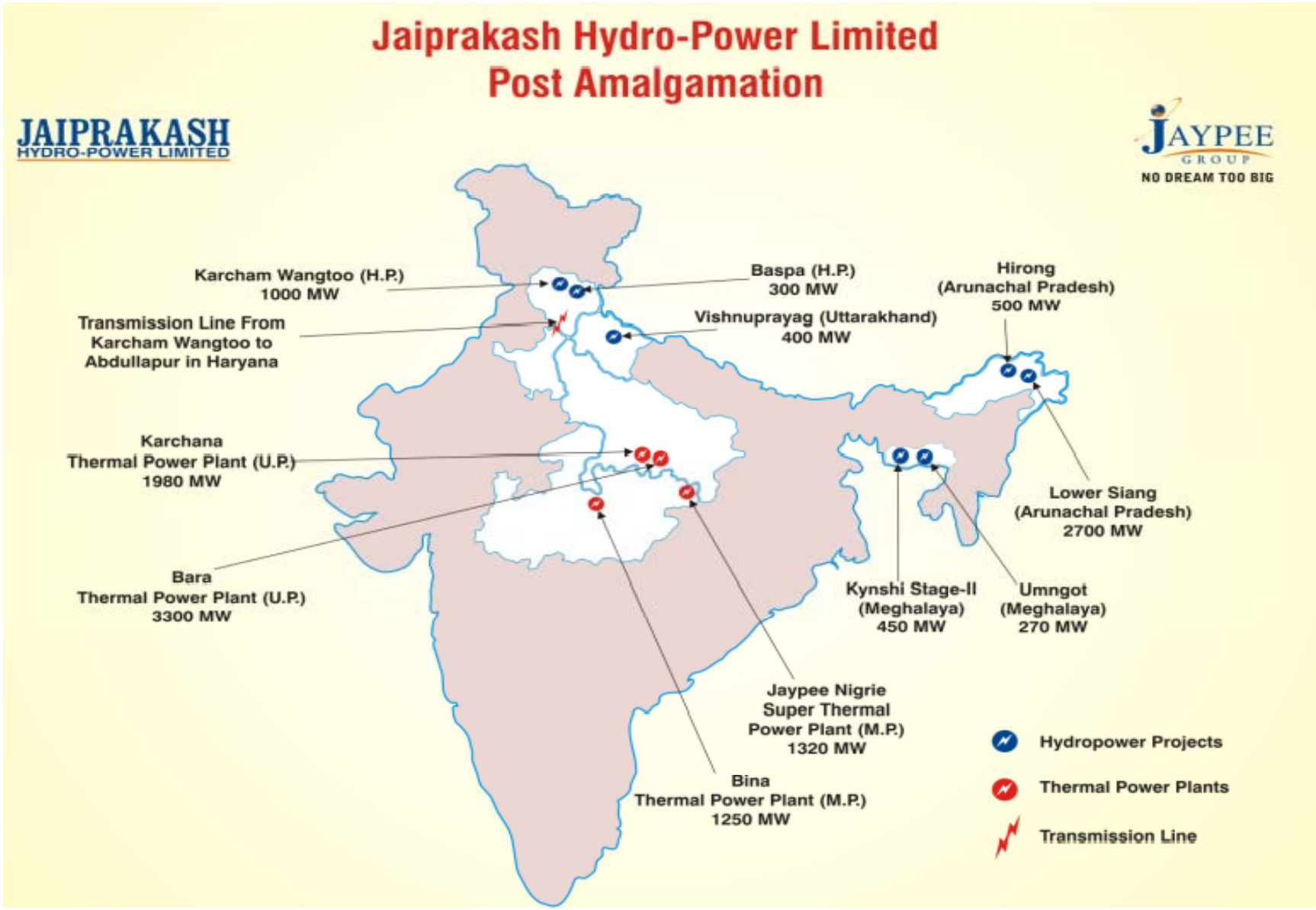
JPVL & JHPL's Business Overview

JHPL Corporate Structure – Post Amalgamation



Market Cap. (26 August '09) - JAL: *Rs 310,781 mn (US$ 6.13 Bn.); JHPL: Rs 41,121 mn (US$ 810.5 Mn.);*
** Listed Company*

Portfolio of 13,470 MW of Power Projects



Projects At A Glance

S.N.	Project	Fuel	Capacity (MW)	Regulated Tariff (MW)	Merchant Power (MW)	VERs/ CERs	COD
1.	Baspa-II	Hydro	300	300	-	1.00 Mn VERs	2003
2.	Vishnuprayag	Hydro	400	400	-	1.32 Mn.VERs	2006
3.	Karcham Wangtoo	Hydro	1000	800	200	3.35 Mn. CERs*	2011*
4.	Bina Power	Thermal	1,250	750*	500*	-	2011**
5.	Jaypee Nigrie	Thermal	1,320	660*	660*	0.8 Mn. CERs*	2013*
6.	Karchana	Thermal	1,980	1,320*	660*	1.5 Mn. CERs*	2014*
7.	Bara	Thermal	3,300	2,045*	1,255*	2.5 Mn. CERs*	2014*
8.	Lower Siang	Hydro	2,700	1,350*	1350*	TBD	2015***
9.	Hirong	Hydro	500	250*	250*	TBD	2018*
10.	Kynshi Stage -II	Hydro	450	225*	225*	TBD	2018*
11.	Umngot Stage -I	Hydro	270	135*	135*	TBD	2018*
	TOTAL		13,470	8,235	5,235		

* Expected
** 500 MW Phase-I by 2011, *** 1200 MW Phase-I by 2015
700 MW in Operation, 8820 MW Under Development of which 1500 MW will be operational by 2011, & 3950 MW Under Planning

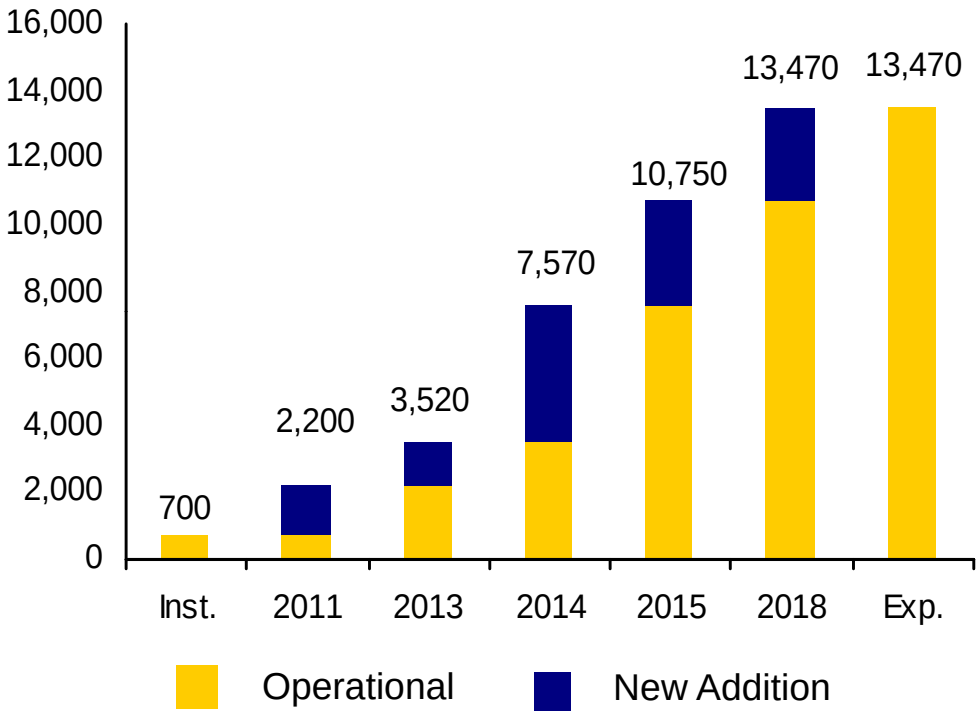
Power Capacity in Operation/ Under Advanced Stages of Implementation

S.N.	Project	Location	Capacity (MW)	Fuel	Financial Closure
As on 31.07.2009					
1.	Baspa-II	H.P.	300	Hydro	✓ (Operational)
2.	Vishnuprayag	U.K.	400	Hydro	✓ (Operational)
	Cumulative Total		*700*		
By October 2011					
3.	Karcham Wangtoo	H.P.	1,000	Hydro	✓
4.	Bina Phase-I	M.P.	500	Thermal	✓ *
	Cumulative Total		*2,200*		
By 2013					
5.	Nigrie	M.P.	1,320	Thermal	✓ *
	Cumulative Total		*3,520*		
By 2014					
6.	Bina Phase – II	M.P.	750	Thermal	TBD
7.	Karchana Phase – I	U.P.	1,320	Thermal	Mandated
8.	Bara Phase – I	U.P.	1,980	Thermal	Mandated
	Cumulative Total		*7,570*		

* Entire Financial tie up achieved – documentation in progress

Optimal Hydro – Thermal Mix

Power capacity addition (MW)



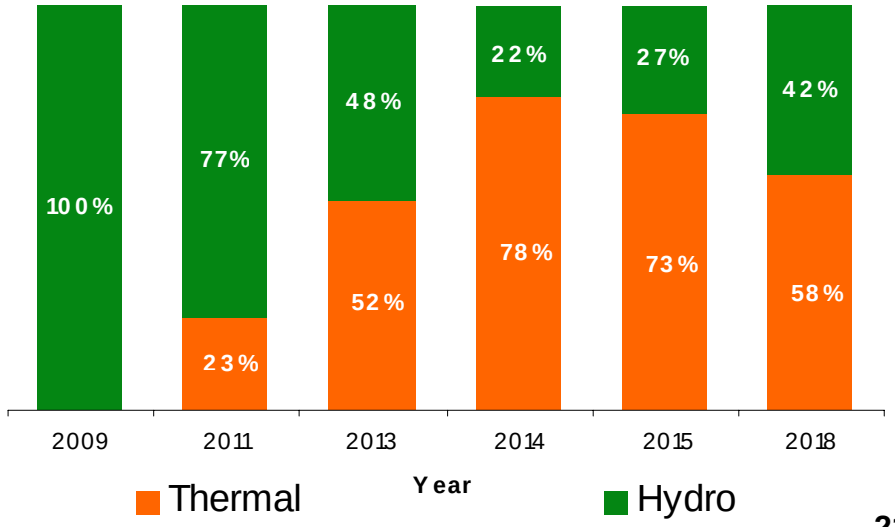
Diversifying its fuel mix for power plants in line with the GoI objective of 60:40 Thermal : Hydro mix, by 2018

Largest Private Sector Hydro Power generator in the country

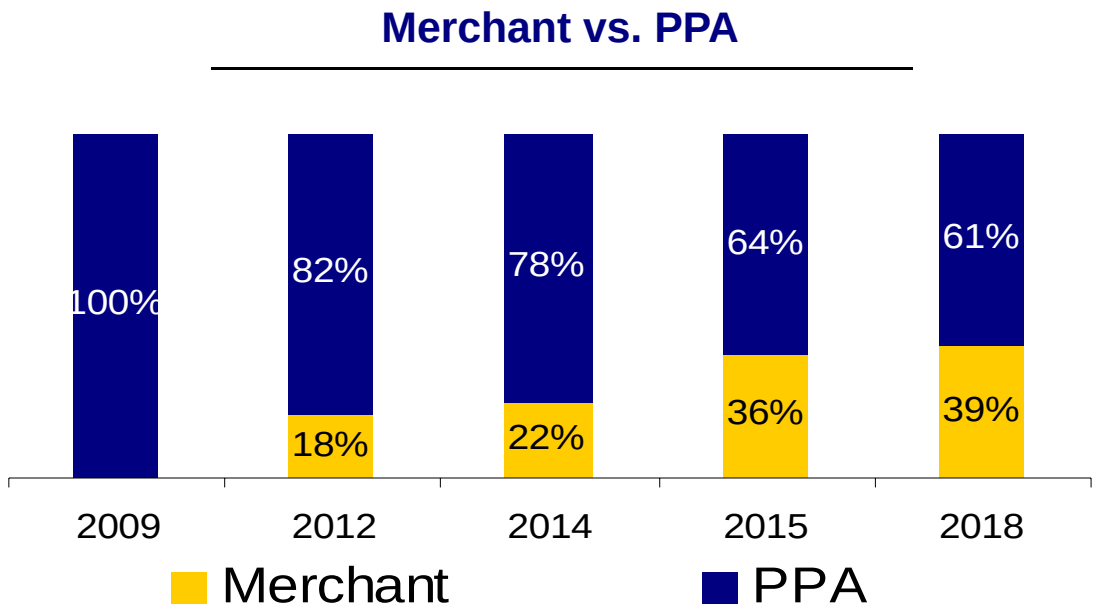
Hydro projects are glacier fed and not dependent on monsoons – generating substantial secondary energy

Strong growth path and expected to grow from the current 700 MW to 2200MW by 2011, 7570MW by 2014 and 13,470 MW by 2018

Thermal : Hydro Mix of Power Capacity



Optimal Off-take Arrangements



Merchant Power Units (MU)*	
2011	2,260
2013	6,850
2014	9,100

Optimal off-take arrangements to ensure balance between steady locked-in cash flows (PPA) and upside from merchant tariffs.

Substantial cash flow expected from carbon credit sales. Current operating assets are already generating cash flow by selling VERs. On aggregate basis VERs stand at 2.32 million currently

* Based on the Generation figures as per CERC norms

Power Business – Summary of Project Status: Hydro

Project	Land	Water	Environment Clearance	DPR/EPC Order	Fuel	PPA	Equity Investments till date (Rs mn)
Baspa II – 300 MW	PROJECT IN OPERATION						4,910
Vishnuprayag – 400MW	PROJECT IN OPERATION						5,090
Karcham Wangtoo – 1000 MW	✓	✓	✓	✓	✓	✓ 20% Merchant	10,750
Lower Siang – 2700 MW	-	✓	Approval for pre-construction activities	DPR submitted to CEA	✓	50% Merchant	1,200
Hirong – 500 MW	-	✓	Same as above	*Acres* of Canada	✓	50% Merchant	

Power Business – Summary of Project Status: Thermal

Project	Land	Water	Environment Clearance	DPR/EPC Order	Fuel	PPA	Equity Investments till Date (Rs mn)
Bina Power – 1250 MW	✓	✓	✓	✓	✓	GoMP-42% 40 % Merchant	2,990
Nigrie Thermal – 1320 MW	90% Acquired(1)	✓	Final presentation made to MOEF. Approval expected shortly	✓	✓	GoMP – 37.5% 50% Merchant	3,390
Karchana Thermal – 1980 MW	63% acquired(2)	✓	✓	DPR prepared	✓	33% Merchant	1,520
Bara Thermal – 3300 MW	✓ (2)	✓	✓	DPR prepared	✓	38% Merchant	1,430

Total equity investments made across the projects as on 26th August 2009 – Rs 31,280 million (US$ 617 million)

Note: (1) Entire Plant land for Nigrie in posession
(2) For Phase I

Stages of Power Assets

STAGE 9	O & M	***Baspa,Vishnuprayag***
STAGE 8	Commissioning	
STAGE 7	Erection, Testing	***Karcham Wangtoo***
STAGE 6	Construction	***Bina ,Nigrie***
STAGE 5	Project Funding	***Bara, Karchana***
STAGE 4	Design & Engineering	***Lower Siang***
STAGE 3	Environment Clearance	
STAGE 2	Detailed Project Report	***Hirong***
STAGE 1	Feasibility Study	***Meghalaya Projects***

Quality Equipment from Reputed Manufacturers

S.No	Name of Item	Country of Origin/Company
Baspa-II Hydro		
1.	Turbine and Generating System	VA Tech (Austria), Voith (Germany)
2.	GIS	Alstom (France)
Vishnuprayag Hydro		
1.	Turbine and Generating System	Alstom (France)
2.	GIS	Alstom (France)
Karcham Wangtoo Hydro		
1.	Turbine and Generating System	VA Tech (Austria), Voith (Germany)
2.	GIS	Areva (France)
Nigrie Thermal		
1.	Boiler	L&T-MHI (India/Japan)
2.	Turbine Generator	L&T-MHI (India/Japan)
Bina Thermal		
1.	Boiler	BHEL (India)
2.	Turbine Generator	BHEL (India)
Bara Thermal		
1.	Boiler	BHEL (India), Alstom (France)
2.	Turbine Generator	BHEL (India), Siemens (Germany)

High Quality Equipments and Strong Maintenance track record ensure high plant availability

Summary

Hydro Projects Delivering Sustained Returns

Particulars	JHPL		JPVL	
Rs mn *(US$ mn)*	FY 2009	Q1 FY2010^	FY 2009	Q1 FY2010*
Revenue	3,179 *(63)*	826 *(16)*	4,300 *(85)*	899 *(18)*
EBIDTA	2,945 *(58)*	752 *(15)*	3,901 *(77)*	807 *(16)*
PAT	1,429 *(28)*	365 *(7)*	1,865 *(37)*	427 *(8)*
Dividend Declared	15%		20%	

^ Un-Audited results subjected to limited review * Un-Audited

- ✓ **JHPL – Baspa–II** HEP Awarded the **Gold Shield** by the Ministry of Power for **outstanding performance in 2007-08.**
- ✓ **JHPL – Baspa** – II HEP Accredited for **1 million VER's per annum**.
- ✓ **JPVL – Vishnuprayag** HEP awarded **1st Prize in "*Excellence in Fast Track Power Project Execution – Hydro*"** in the Indian Electrical and Electronics Manufacturers Association (IEEMA) Power Awards 2008.
- ✓ **JPVL – securitized receivables** from Vishnuprayag HEP **for Rs. 1,650 crs (US$ 325 mn)**
- ✓ **JHPL – securitized receivables** from Baspa - II HEP **for Rs. 1,100 crs (US$ 217 mn)**

Integrated Solution Provider to Control Key Aspects of Project Execution

JAL has the unique ability to undertake the most challenging projects successfully given its abilities as the only Integrated Solution Provider for Hydropower Projects in the country

JAL's Lineage	▪ **Expected to derive substantial synergies from the parent JAL**
	  ▪ 40 years of experience in the E&C business. Since 2002 till date, JAL has been involved in projects with 8,840 MW of hydroelectric generation capacity
	  ▪ The company has built plants for several quasi government entities
	▪ **Vast experience and strong project management skills enable JAL a closer control over all aspects of projects**
	▪ **JAL is expected to be the EPC contractors for all of JPVL's hydro projects and execute civil works for thermal projects**
	▪ **Equipment from most reliable suppliers having proven track record**

In – House Expertise	▪ **Internationally competent design team provides captive support for efficient implementation** ▪ **In-house heavy machinery engineering workshop , fabricating hydro-mechanical equipment and BOP for thermal power plants, to significantly reduce the capital expenditure requirements** ▪ **In-house Workshop to provide specialized coating for runners and under water parts of turbines**
Deep Involvement of Senior Management	▪ **Typical to JAL's culture, senior director's presence on-site in the projects would strengthen the quality of execution** ▪ **Recent induction of highly experienced personnel from across the globe and having vast experience in Super Critical technologies**

Appendix 1: JHPL & JPVL's Key Management

Highly Experienced Management

Shri Manoj Gaur, **Chairman** **JHPL** **(Also Chairman of JPVL)**	▪ Aged 45 years ▪ Holds a Degree in Civil Engineering from Birla Institute of Technology and Science, Pilani ▪ Has 22 years experience of various business of the Jaypee Group i.e. Engineering Construction, Hydro-Power, Cement, Real Estate, Information Technology, Hospitality and Education initiatives ▪ He is Executive Chairman of Jaiprakash Associates Limited, Chairman of Jaypee Infratech Limited, Jaiprakash Power Ventures Limited and Jaypee Arunachal Limited, Vice-Chairman of Jaypee Karcham Hydro Corporation Limited , Jaypee Powergrid Limited, MP Jaypee Coal Limited & Madhya Pradesh Jaypee Minerals Limited, Managing Director of Bhilai Jaypee Cement Limited and Director of various group companies
Shri Sunil Kumar Sharma, **Vice-Chairman** **JHPL**	▪ Aged 50 years ▪ He is a Science Graduate with over 20 years of experience in Planning, Procurement, Execution and Management of projects ▪ He has been responsible for completion of several Engineering and Construction projects and has also been Director In Charge for the underground Power House at Jhakri, Rockfill Dam and Chute and Shaft Spillway works of Tehri Hydro Project besides works at the Chamera-II Hydro Project
Shri J N Gaur, **Whole-time Director** **JHPL**	▪ Aged 76 years ▪ Holds a B.E. (Electrical) degree from University of Roorkee (now Indian Institute of Technology, Roorkee ▪ He has over 44 years' of experience in design, coordination, implementation and operation, and maintenance of Hydro-Electric Projects. He is Director-in-charge & CEO of the Company.
Shri R K Narang, **Whole-time Director & CFO** **JHPL**	▪ Aged 60 years ▪ Holds a degree in Mechanical Engineering from Jiwaji University, Gwalior and holds Diploma in Management from YMCA, New Delhi ▪ Has over 38 years of experience – 10 years in manufacturing and 25 years in finance including project financing at senior management levels
Shri Suresh Chandra, **Whole-time Director** **JHPL**	▪ Aged 65 years ▪ He is an Electrical Engineer ▪ Has vast experience of over 44 years in planning, implementation, operation and maintenance of Hydro Power Projects

Highly Experienced Management

Suren Jain
Managing Director
JPVL

- Aged 39 years
- Holds a Bachelor's Degree in Production Engineering from Marathwada University, Aurangabad
- Has over 16years of experience in corporate planning and management
- Mr. Jain started his career with the construction division of JAL in 1992
- Thereafter, over a span of 16 years he has worked in various capacities across varied businesses of the Jaypee group. He worked for the prestigious Indra Sagar and Sardar Sarovar dams during his tenure with the construction division. He was responsible for commissioning of the group's hotel projects in Mussoorie and Agra while he was with the hotels division of JAL. He has also been associated with the group's foray in the development of expressways on BOOT basis.

Arun Gupta
Director
JPVL

- Aged 67 years
- Holds a Bachelor's Degree in Technology with Honours in Civil engineering from the Indian Institute of Technology, Kharagpur
- Has significant experience in project management, co-ordination, planning, scheduling, monitoring and review of thermal and hydro power projects including transmission systems
- He was the Chairman and Managing Director of Nathpa Jhakri Power Corporation (a joint venture between the Government of Himachal Pradesh and the Government of India) from 1995 to 2001
- Mr. Arun Gupta had also held additional charge as the Chairman and Managing Director of Power Grid Corporation of India Limited in the year 1996

S. Sen
President (Thermal Power)
JPVL

- Aged 65 years
- Holds a Bachelor of Engineering (B.E.) in Electrical Engineering from Bengal Engineering College, Shibpur (Calcutta University) in year
- Has close to 45 years of experience in different divisions of Engineering and Thermal Power Projects including WBSEB, BHEL, NTPC
- He was the Executive Director, National Capital Region (NCR) looking after operation and maintenance of Badarpur Thermal Power Station, Dadri Thermal Power Station and Gas Power Stations at Anta, Auraiya and Dadri.
- Held the position of President (Thermal Power) looking after execution of Captive Power Plants of different capacities, Bina Thermal Power Project (2x250 MW) and Jaypee Nigrie Super Thermal Power Project (2x660 MW).

V. K. Jawada
President (Thermal Power)
JPVL

- Aged 60 years
- Holds a Graduate Degree in Electrical Engineering from Maulana Azad National Institute of Technology, Bhopal
- has broad experience of 39 years in thermal power stations design, O&M and erection & commissioning. Initially he served in M.P. Electricity Board for a duration of 9 years and there after joined NTPC in January' 1980
- Has worked in various departments in thermal power plants during his stay at NTPC and Sipat Super Thermal Power Project
- He has joined with Jaiprakash Associates Limited in December 2006 as President (Thermal).

Appendix 2: Project Details

Baspa-II HEP - 3x100 MW

Project Detail	Description
Location & size	300 MW Hydro Power Project in Himachal Pradesh
Concession Period	40 + 20 Years
Total project cost	Rs. 1,667 Crores
Means of finance	Debt – Rs. 1,089 Crores Equity – 491 Rs. Crores Internal Accruals – Rs. 87 Crores
Current status	In operation since June 2003
Offtake arrangement	Free Power – 12% (all through the concession period) PPA – 100% of the saleable power to HPSEB

- *Commissioned in June 2003*
- *FY-09 generation: 1131 Mn saleable Units at 99.65% plant availability*
- *Dividend declared*
  I) Maiden dividend of 7.5% in its first year of operation
  II) 15% dividend for FY-08
  III) 15% dividend for FY-09
- *Accredited for Carbon Credits – 1.00 Mn. Annual VERs*

Vishnuprayag HEP - 4x100 MW

Project Detail	Description
Location & size	400 MW Hydro Power Project in Uttrakhand
Concession Period	30 + 20 Years
Total project cost	Rs. 1,694 Crores
Means of finance	Debt – Rs. 1,185 Crores Equity – Rs. 509 Crores
Current status	In operation since June 2006
Offtake arrangement	Free Power – 12% (all through the concession period) PPA – 100% of the saleable power to UPPCL

- *Commissioned six months ahead of schedule -Savings of Rs 150 Crs*
- *FY-09 generation: 1767 Mn Saleable Units at 98.63% plant availability*
- *Dividend declared*
  I) Maiden dividend of 7.0% in its first year of operation
  II) 20% dividend for FY-08
  II) 20% dividend for FY-09
- *Accredited for Carbon Credits – 1.32 Mn. Annual VERs*

Karcham Wangtoo HEP - 4x250 MW

Project Detail	Description
Location & size	1,000 MW Hydro Power project in Himachal Pradesh
Concession Period	40+20 Years
Total project cost	Rs. 7,080 Crores
Means of finance	Debt – Rs. 4,956 Crores Equity – Rs. 2,124 Crores
Equity holding	JAL – 44.64% JPVL – 55.36%
Expected commissioning	To be commissioned in 2011
Offtake arrangement	Free power – 12% (first 12 years) & 18% (after 12 years) PPA – 80% of power signed with PTC *Merchant Power – 20% of power*

- *Entire debt for the project tied up on non-recourse basis.*
- *PPA with PTC for 704MW of power signed on 21st March 2006*
- *Eligible for CDM Benefits. Application in advanced stages of validation. 3.35 Mn CERs expected.*
- *Poised to be completed six months ahead of schedule with the 1st unit to be ready by March 2011.*

Jaypee Powergrid Limited - 230 KM Power Transmission Project

Project Detail	Description
Location & size	230 km transmission project to evacuate power from 1,000 MW Karcham-Wangtoo project
Concession Period	Owned
Total project cost	Rs. 1,000 Crores
Means of finance	Debt – Rs. 700 Crores Equity – Rs. 300 Crores
Equity holding	JHPL – 51%, JPVL – 23% POWERGRID – 26%
Expected Commissioning	Scheduled for completion by June 2010

- *First 400 KV Quad Conductor Double Circuit Transmission Line in hilly terrain in India*
- *This transmission line will consist of about 150 km stretch of hilly terrain with snowfall of up to eight feet in some stretches*
- *Transmission License issued by CERC*
- *Current Status – Project awarded in 5 packages (3 for construction, 2 for supplies) to L&T and ATSL (Towers), Sterlite, Apar (Conductors), & AB group (Insulators).*

Bina TPP – 1,250 MW

Project Detail	Description
Location & size	1250 MW (In 2 phases) Thermal Power Plant in Dist. Bina in Madhya Pradesh, Phase-I consisting of 2x250 MW
Concession Period	Owned
Total project cost	Rs. 2,754 Crores for Phase – I
Means of finance	Debt – Rs. 1,928 Crores (Phase -1) Equity – Rs. 826 Crores (Phase -1)
Expected Commissioning	Expected commissioning by 2011 (Phase -1)
Offtake arrangement	GoMP- 42% (including 5% at variable cost) Merchant Power – 40%

- *Land – 697 hectares in possession. Property Fenced.*
- *Water- From River Betwa (100 cusecs).*
- *LoA by CIL for capacity of 2x250 MW received. Bank guarantees to that effect submitted.*
- *Order for BTG package for Phase-I placed on BHEL.*
- *Civil works on site commenced, Boiler Erection for Unit-I started*

Nigrie TPP - 2X660 MW

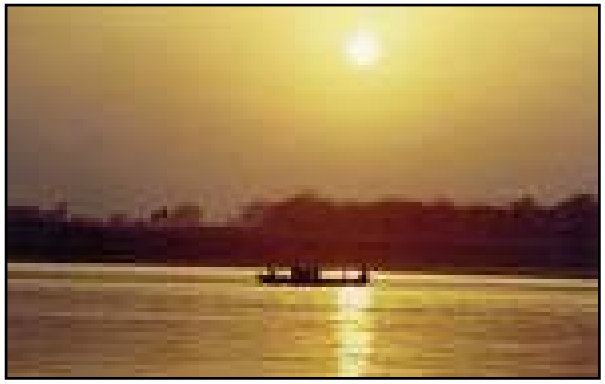
Project Detail	Description
Location & size	1320 MW super critical technology boiler, pit head based Thermal Power Plant at Dist Sidhi in Madhya Pradesh
Coal Blocks	Coal from Mines at Amelia (North) & Dongri Tal-II
Total project cost	Rs. 8,000 Crores
Means of finance	Debt – Rs. 5,600 Crores Equity – Rs. 2,400 Crores
Expected Commissioning	2013
Offtake arrangement	GoMP - 37.5% (including 7.5% at variable cost) Merchant Power – 50%

- *Pithead Located Captive Coal Block Based Plant - Joint Venture of JAL with MP State Mining Corporation for coal block mining to meet entire coal requirement for 25 years*
- *50% Power to be sold on Merchant Power basis.*
- *Water- From River Gopad – 65.3 Cusec allocated.*
- *Land Acquisition nearing completion, entire plant land acquisition completed.*
- *Order for BTG package placed with L&T-MHI. Scheduled commissioning is Apr. 2013 & Sept. 2013 for Unit-I & Unit-II respectively.*

Karchana TPP – 3x660 MW

Project Detail	Description
Location & size	1,980 MW (in 2 Phases) super critical technology boiler based Project in Karchana, Allahabad, Uttar Pradesh; Phase-I consisting of 2x660 MW
Concession Period	Owned
Total project cost	Rs. 8,000 Crores for Phase-I *
Means of finance	Debt – Rs. 5,600 Crores Equity – Rs. 2,400 Crores
Expected Commissioning	2014
Offtake arrangement	1320 MW Phase-I : GoUP - 90%, Merchant Power – 10% 660 MW Phase-II : GoUP - 20%, Merchant Power – 80%

- *Project was awarded on Case-II bidding.*
- *Tariff : Rs. 2.97/unit. Coal cost/ GCV/ Min. guaranteed quantity pass through in tariff.*
- *LoI issued on 21st February 2009, SPA executed on 23rd July 2009.*

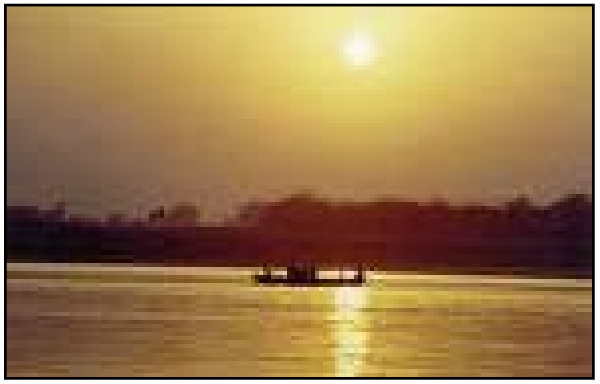


* Estimated

Bara TPP – 5x660 MW

Project Detail	Description
Location & size	3,300 MW (in 2 Phases) super critical technology boiler based Project in Bara, Allahabad, Uttar Pradesh; Phase-I consisting of 3x660 MW
Concession Period	Owned
Total project cost	Rs. 12,000 Crores for Phase-I *
Means of finance	Debt – Rs. 8,400 Crores Equity – Rs. 3,600 Crores
Expected Commissioning	2014
Offtake arrangement	1980 MW Phase-I : GoUP - 90%, Merchant Power – 10% 1320 MW Phase-II : GoUP - 20%, Merchant Power – 80%

- *Project was awarded on Case-II bidding.*
- *Tariff : Rs. 3.02 /unit. Coal cost/ GCV/ Min. guaranteed quantity pass through in tariff.*
- *LoI issued on 2nd March, 2009, SPA executed on 23rd July 2009.*



*Estimated

Lower Siang HEP - 2,700 MW

Project Detail	Description
Location & size	2,700 MW Hydro Power project in Arunachal Pradesh
Concession Period	40 Years
Equity holding	JPVL - 89% Government of Arunachal Pradesh - 11%
Expected commissioning	Expected commissioning by 2015*
Offtake arrangement	Free Power – 12% (First 10 years) & 15% (11th Yr onwards) Merchant Power – 50% of the saleable power

- *MOA for Lower Siang Hydro-Electric-Project (HEP) on river Siang in Arunachal Pradesh on BOOT basis was signed on 22nd Feb 06.*
- *DPR for 2000MW was purchased from NHPC. Revised DPR submitted to CEA in Jun-08.*
- *TEC expected by Dec- 09.*
- *Environmental Clearance – EIA/EMP reports being prepared by consultants. Clearance expected by Mar-10.*
- *Site Mobilisation has commenced.*

**1200 MW Phase-I*

Hirong HEP- 500 MW

Project Detail	Description
Location & size	500 MW Hydro Power project in Arunachal Pradesh
Concession Period	40 Years
Equity holding	JPVL – 89% Government of Arunachal Pradesh - 11%
Expected commissioning	Expected commissioning by 2018
Offtake arrangement	Free Power – 12% (First 10 years) & 18% (11th Yr onwards) Merchant Power – 50% of the saleable power

- *MOA for 500 MW Hirong HEP on river Siyom in Arunachal Pradesh on BOOT basis has been signed on 22nd Feb 06.*
- *Acres International of Canada is preparing the DPR. Expected to be submitted to CEA by Dec 09.*

Kynshi Stage – II HEP - 450 MW

Project Detail	Description
Location & size	450 MW Hydro Power project in Meghalaya
Concession Period	40 Years
Equity holding	JPVL – 74% Government of Meghalaya - 26%
Expected commissioning	Expected commissioning by 2018
Offtake arrangement	Free Power – 12% + 1% additional for social development by State Govt. Merchant Power – 50% of the saleable power

- *MOA for 450 MW Kynshi HEP on river Kynshi in Meghalaya on BOOT basis has been signed on 11th Dec. 07.*

Umngot Stage – I HEP - 270 MW

Project Detail	Description
Location & size	270 MW Hydro Power project in Meghalaya
Concession Period	40 Years
Equity holding	JPVL – 74% Government of Meghalaya - 26%
Expected commissioning	Expected commissioning by 2018
Offtake arrangement	Free Power – 12% + 1% additional for social development by State Govt. Merchant Power – 50% of the saleable power

- *MOA for 270 MW Umngot HEP in Umngot River Basin, Meghalaya on BOO basis has been signed on 11th Dec. 07.*