



**Jaiprakash Power Ventures Limited  
Investor Presentation**

JANUARY 2010

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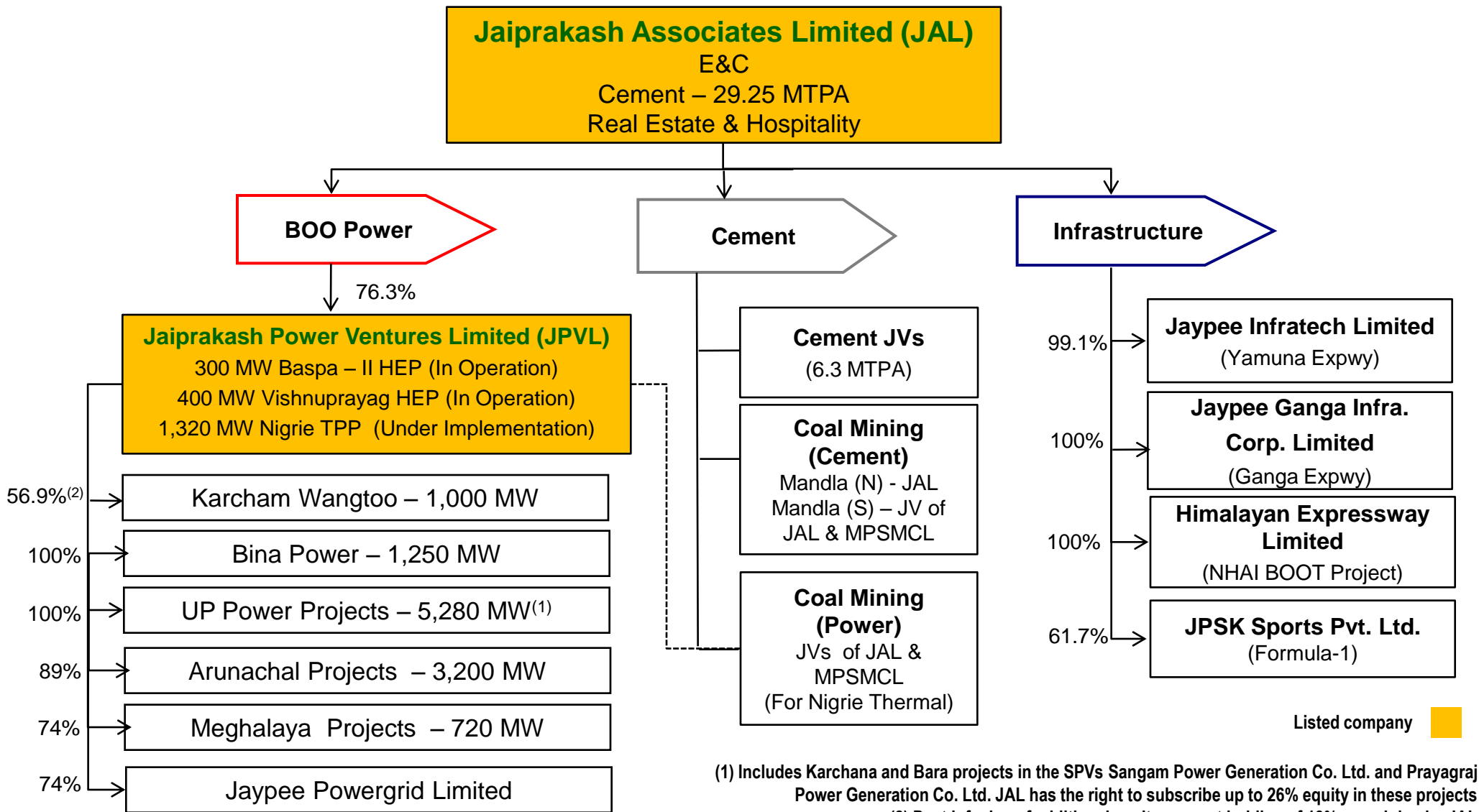
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# Overview of Jaypee Group

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# Corporate Structure



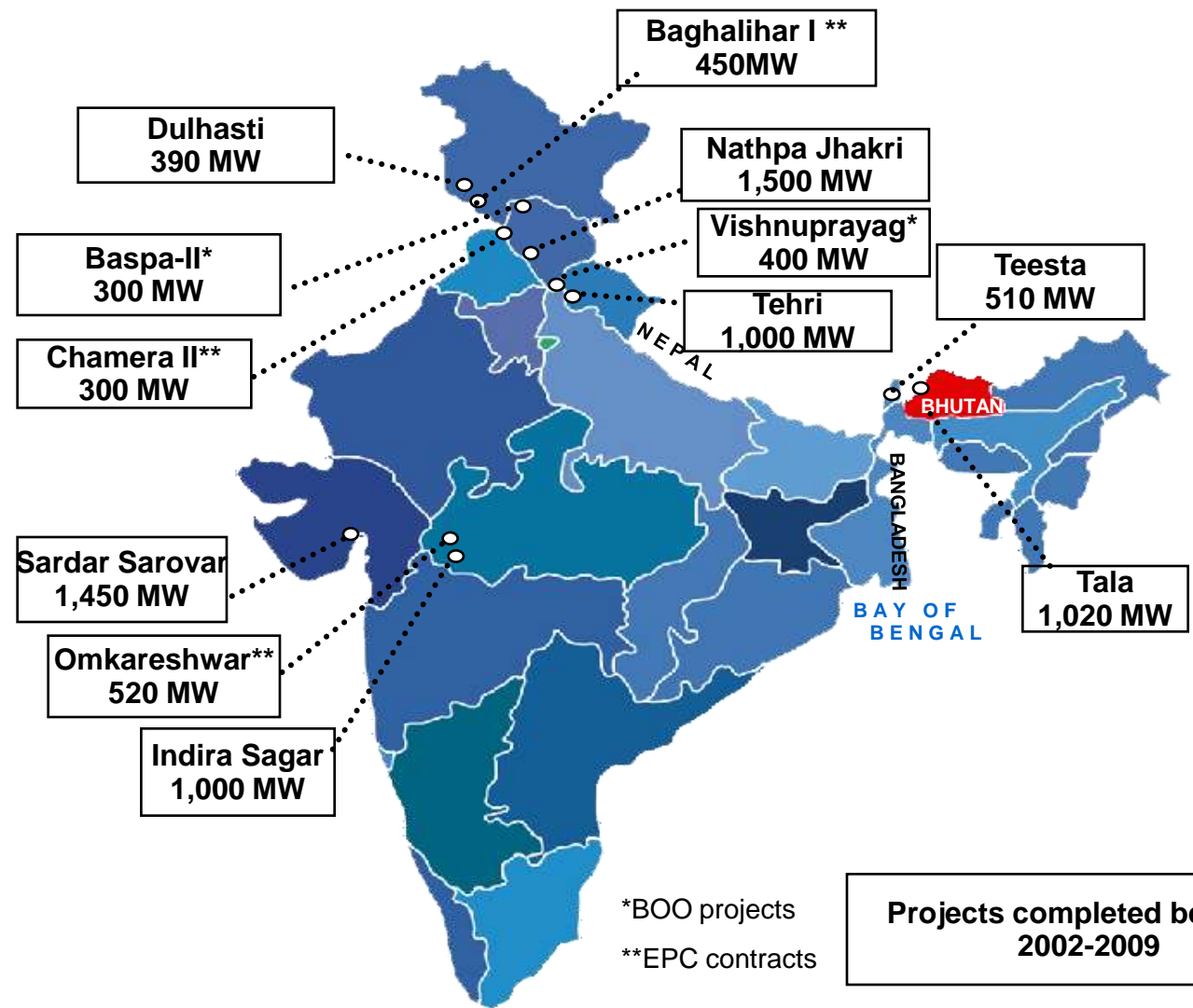
Listed company

(1) Includes Karchana and Bara projects in the SPVs Sangam Power Generation Co. Ltd. and Prayagraj Power Generation Co. Ltd. JAL has the right to subscribe up to 26% equity in these projects  
 (2) Post infusion of additional equity, current holding of 18%, remaining by JAL

**Market Cap. (14 Jan'10) – JAL INR 34,660 Crs (USD 7.38 Bn); JPVL (Post-merger) INR 16,860 Crs (USD 3.59 Bn)**

# 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 – Nathpa-Jhakri
-  Second Largest Surface Powerhouse in India – Indira-Sagar

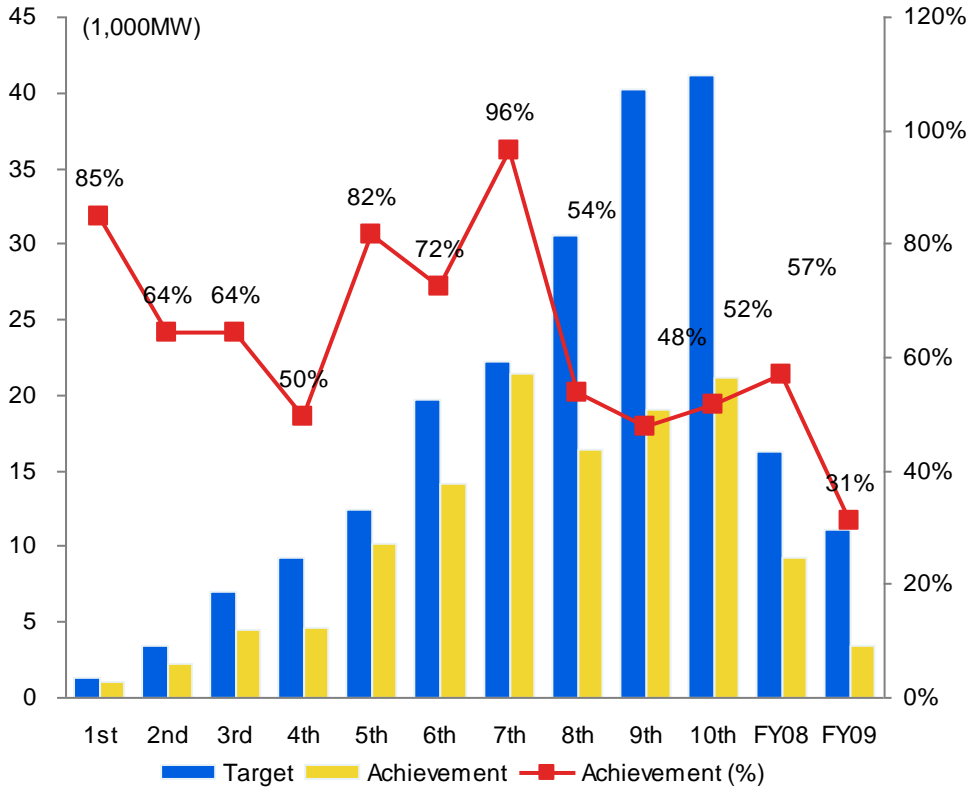


# Indian Power Sector

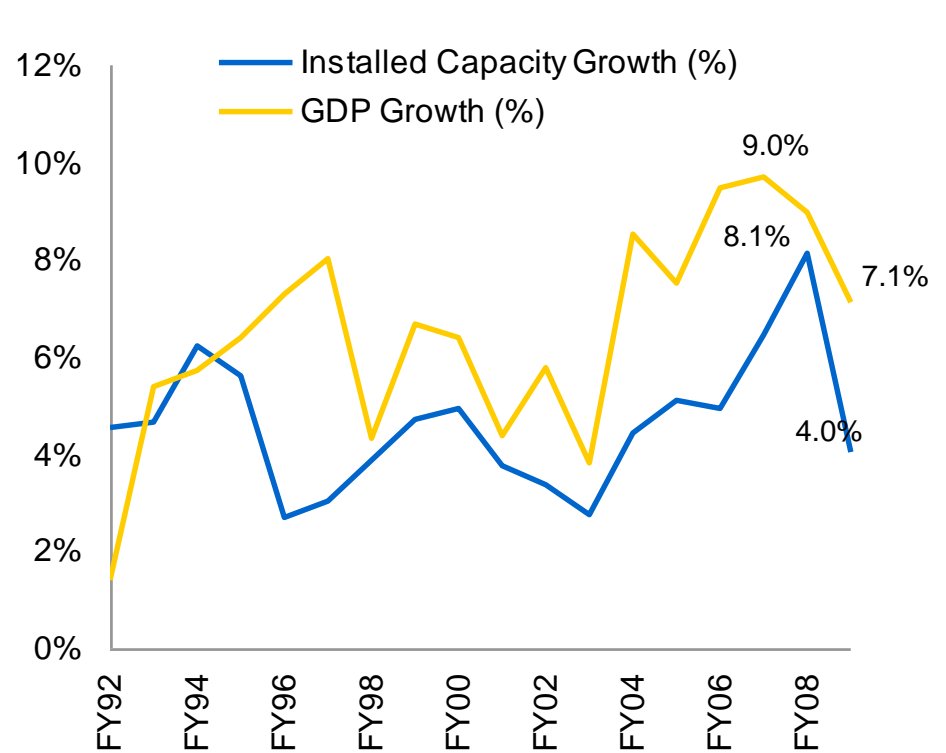
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# Capacity addition has underachieved the targets

## Capacity Addition Targets and Achievements



## Growth Lower than GDP Growth



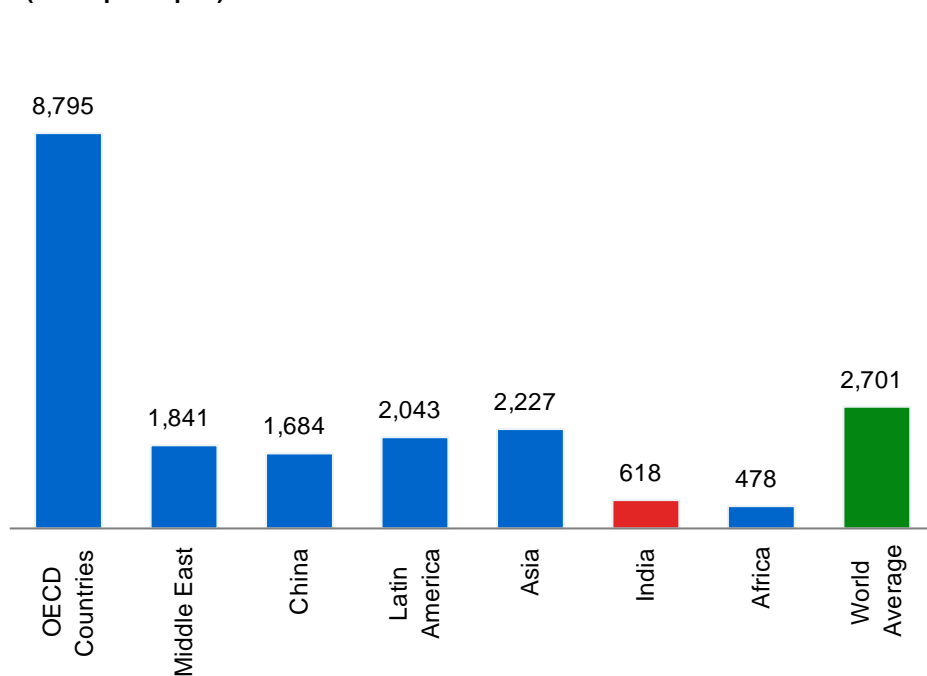
**Over the past 15 years, GDP growth has almost always been greater than the installed capacity growth**

\* Installed capacity growth annualised using June 09 installed capacity number  
 Source: Planning Commission website, Gol, & Ministry of Power

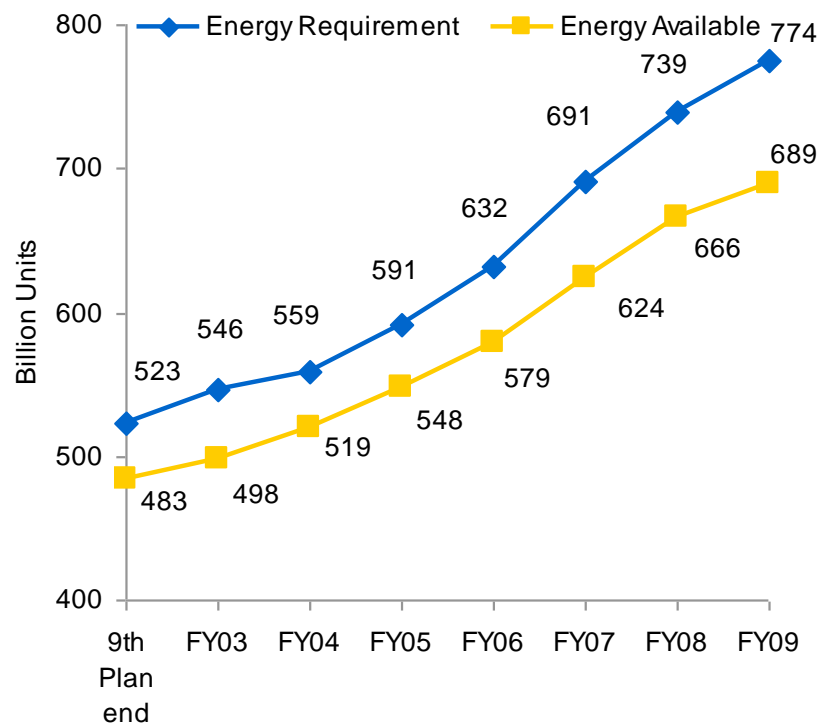
# Shortage of Power in India

## Low per capita consumption of Electric energy

(KWhr per capita)



## 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 2009**

**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, December 2009

Hydro Power Policy, MoP, 2008 and Monthly Review of the Power Sector (Executive Summary), May 2009

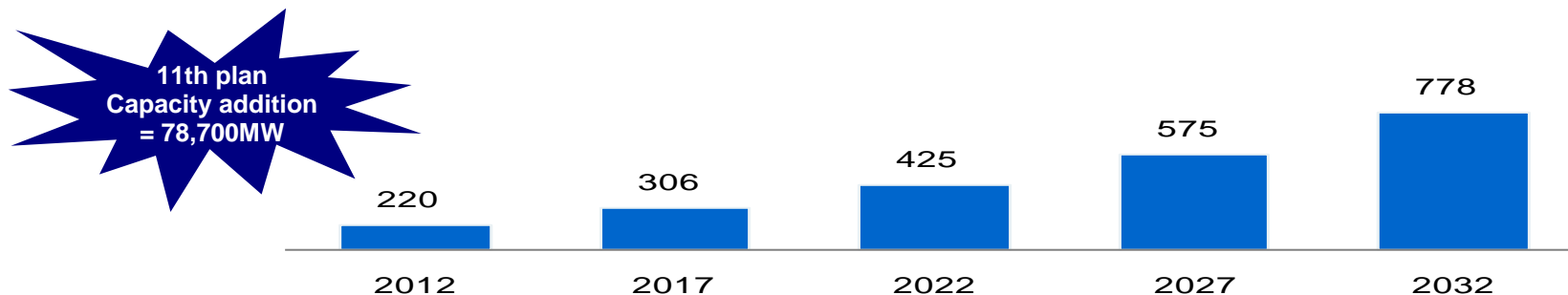
Human Development Report, 2007/2008



# Indian Power Sector: Driving significant investments

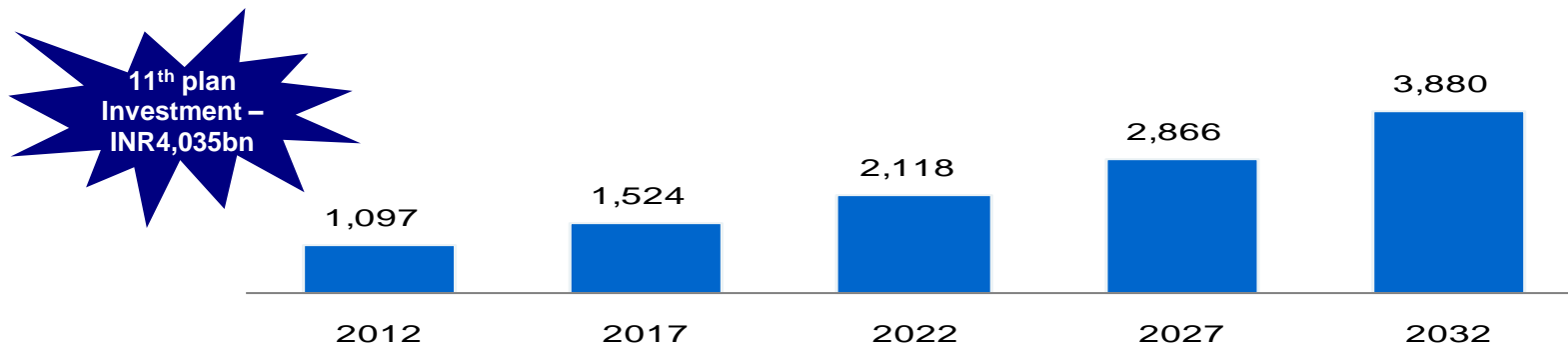
## Long-term outlook

Installed capacity (GW) required, at 8% GDP growth



Source: Government of India Integrated Energy Policy, Report of the Expert Committee (August 2006) available at [http://planningcommission.gov.in/reports/genrep/rep\\_intengy.pdf](http://planningcommission.gov.in/reports/genrep/rep_intengy.pdf)

Energy requirement (Billion kWh), at 8% GDP growth



**The Indian power sector requires significant achievements to meet the planned capacity addition in the 11<sup>th</sup> (78,700MW) and 12<sup>th</sup> (86,000MW) Five year plans**

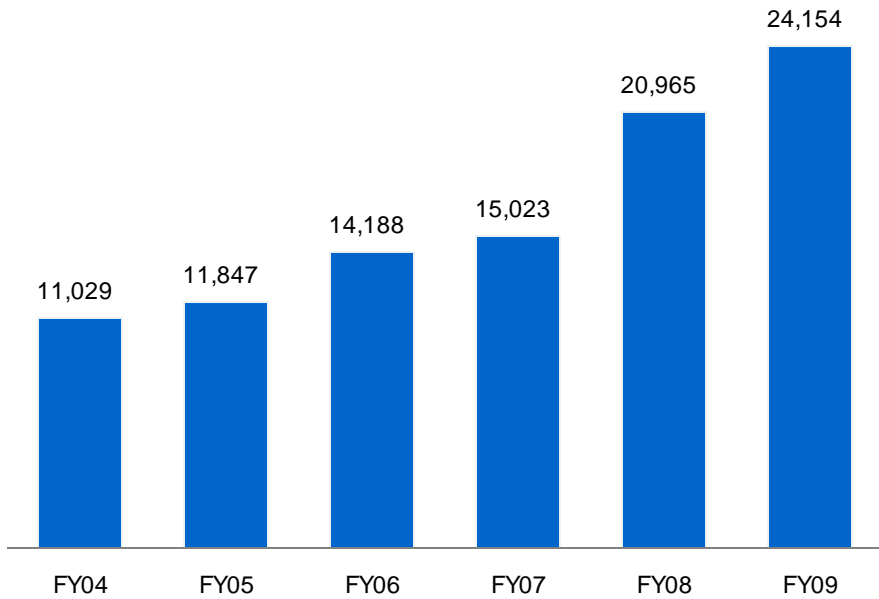
Source: Power Scenario at Glance Dec 09 (CEA); Projections of Investment in Infrastructure during the XI Oct 07 (Planning Commission) - [infrastructure.gov.in/pdf/Inv\\_Projection.pdf](http://infrastructure.gov.in/pdf/Inv_Projection.pdf);  
<sup>1&2</sup> Increase in capacity required over FY12-FY17 based on 8% and 9% GDP growth rate as per 'Government of India Integrated Energy Policy, Report of the Expert Committee' (August 2006) available at [http://planningcommission.gov.in/reports/genrep/rep\\_intengy.pdf](http://planningcommission.gov.in/reports/genrep/rep_intengy.pdf)

# Indian Power Sector – Merchant Power potential

*Trend Towards Rise in Traded Volumes & Tariffs*

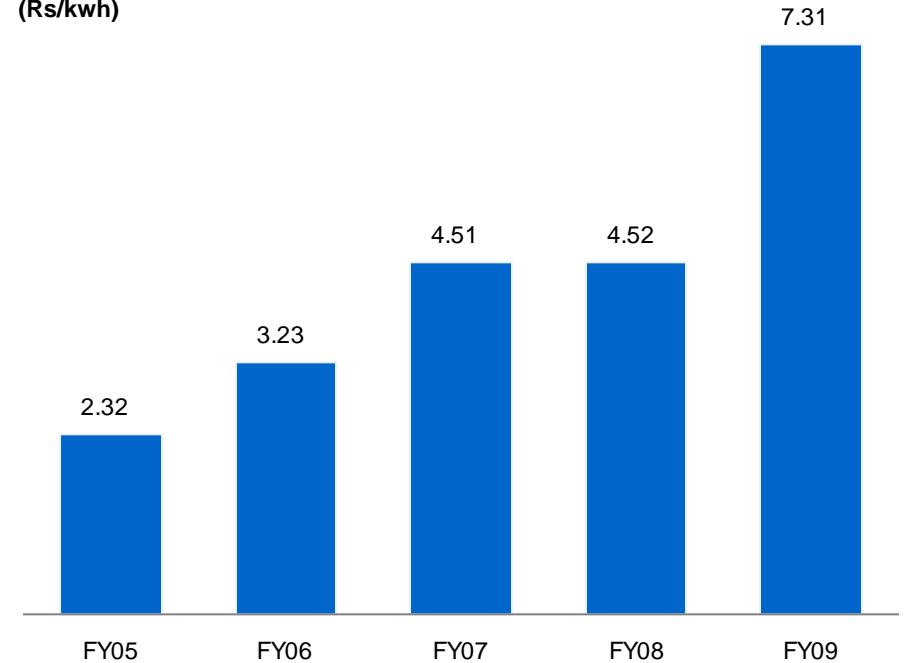
**Increasing Volumes of Power Traded<sup>1</sup>...**

(mm units)



**...Coupled with Rising Merchant Power Prices<sup>2</sup>**

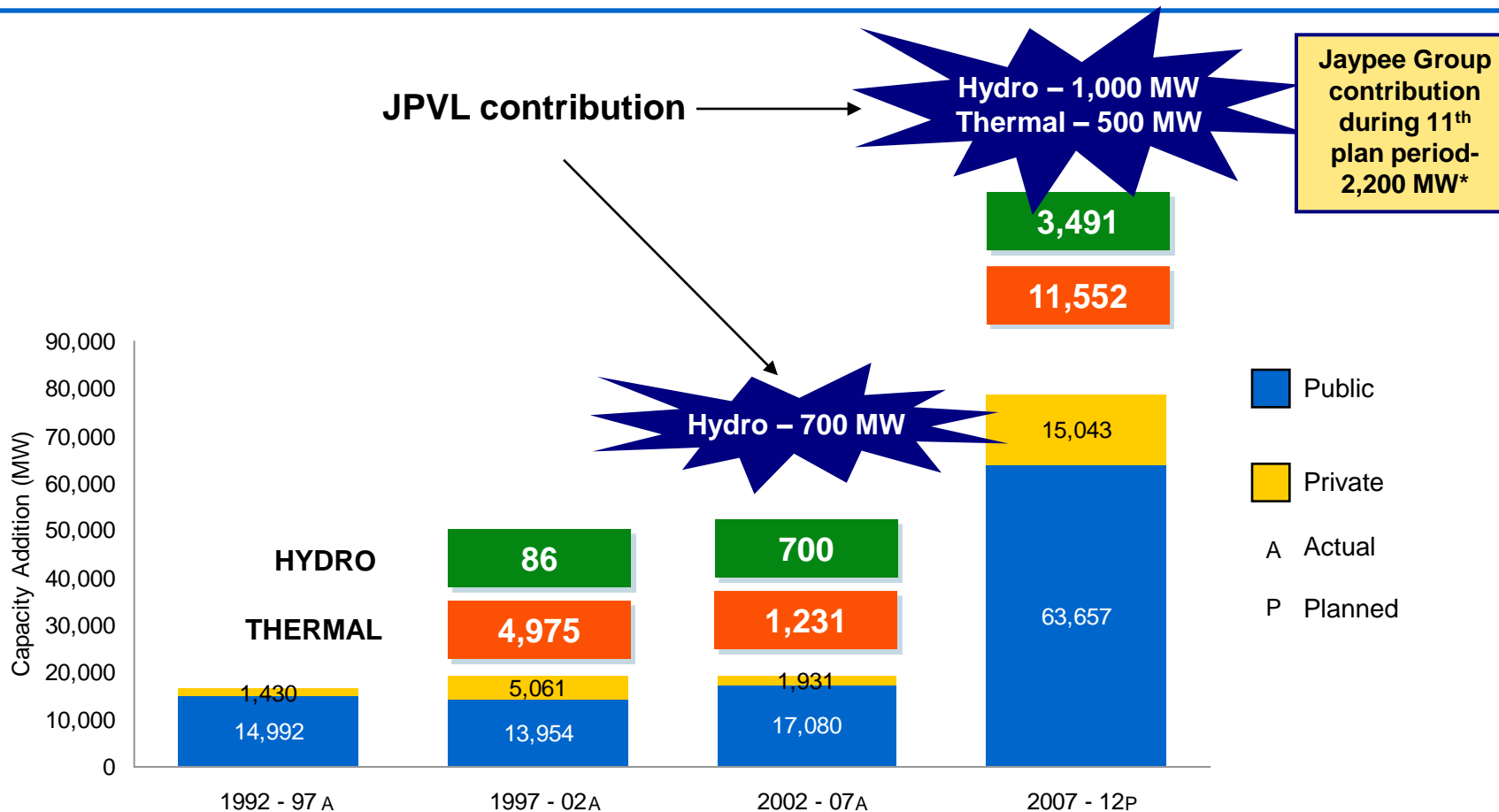
(Rs/kwh)



***Significant Potential from Merchant Power Plants due to Rising Tariffs***

<sup>1</sup> CERC; <sup>2</sup> <http://www.cercind.gov.in> – weighted average price of electricity transacted through Trading Licenses and Power Exchanges

# Increasing Role of Private Sector



**Thermal and Hydro account for ~89% of the current installed capacity**  
**In terms of additions planned in the 11<sup>th</sup> 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 11<sup>th</sup> plan\***

\* In addition Jaypee Group shall also add 700 MW of coal based Captive Power Plants during the 11<sup>th</sup> plan period  
 Source: Ministry of Power, Power Scenario at a Glance, CEA, Dec 2009

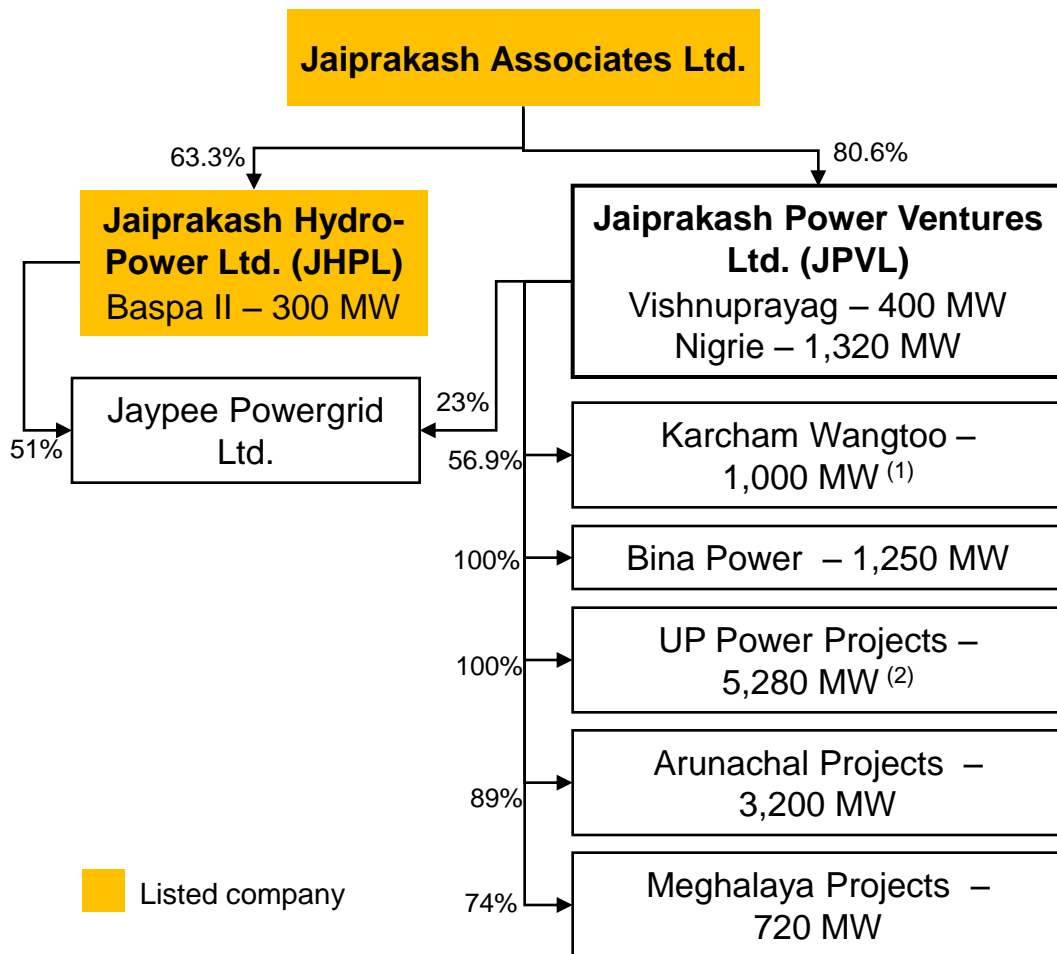


# JPVL's Business Overview

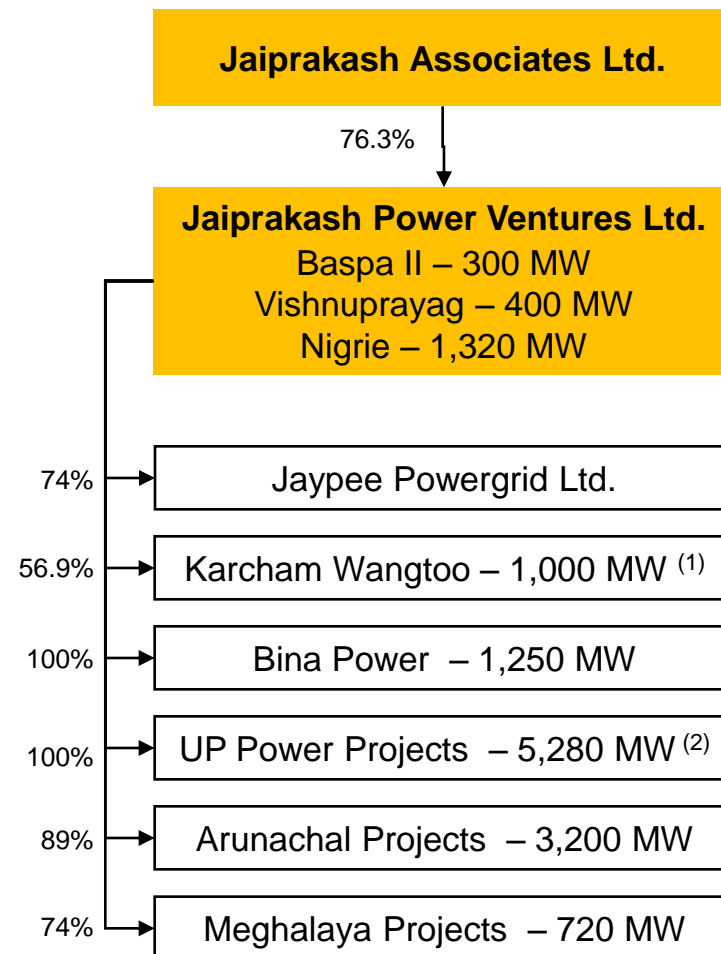
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# JHPL & erstwhile JPVL Merger

## Pre-Amalgamation



## Post-Amalgamation

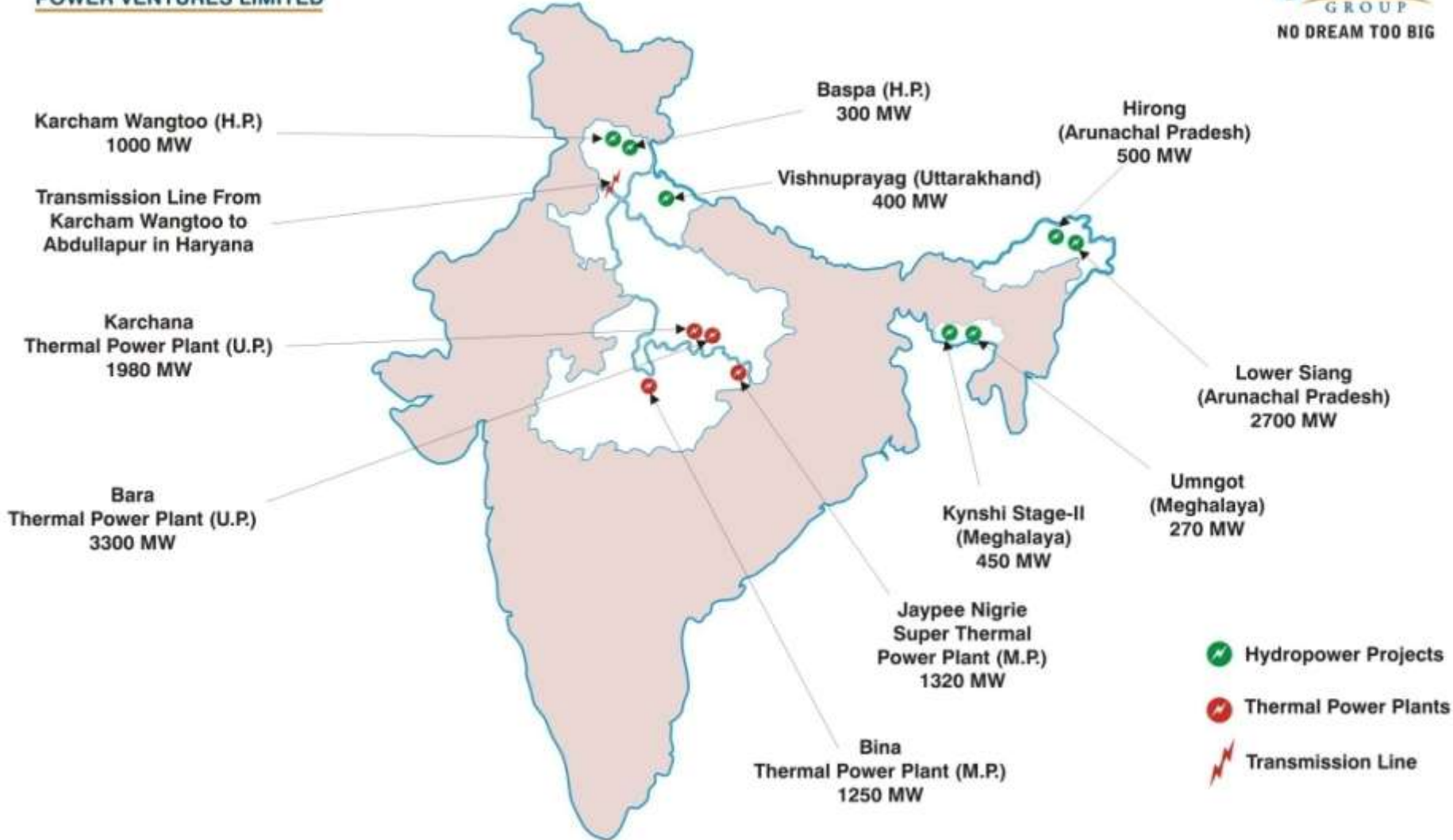


(1) Post infusion of additional equity, JPVL current holding of 18%, remaining by JAL  
 (2) Includes Karchana and Bara projects in the SPVs Sangam Power Generation Co. Ltd. and Prayagraj Power Generation Co. Ltd.  
 Jaiprakash Associates Ltd. has the right to subscribe up to 26% equity in each of these projects

# Portfolio of 13,470 MW of Power Projects

**JAIPRAKASH**  
POWER VENTURES LIMITED

**JAYPEE**  
GROUP  
NO DREAM TOO BIG



# 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	1,000	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*	1,350*	TBD	2017**#
9.	Hirong	Hydro	500	250*	250*	TBD	2018*
10.	Kynshi Stage -II	Hydro	450	225*	225*	TBD	2019*
11.	Umngot Stage -I	Hydro	270	135*	135*	TBD	2019*
	<b>TOTAL</b>		<b>13,470</b>	<b>8,235</b>	<b>5,235</b>		

\* Management Estimates

\*\* 500 MW Phase I by 2011, ^1320 MW of Karchana Phase I & 1980 MW of Bara Phase I, # 1500 MW Phase I by 2017

@ Based on legal advise received, the Company believes the said PPA to be void

# Power Capacity in Operation/ Under Advanced Stages of Implementation

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

\* Entire Financial tie up achieved – documentation in progress

\*\* Entire Debt has been underwritten – documentation in progress

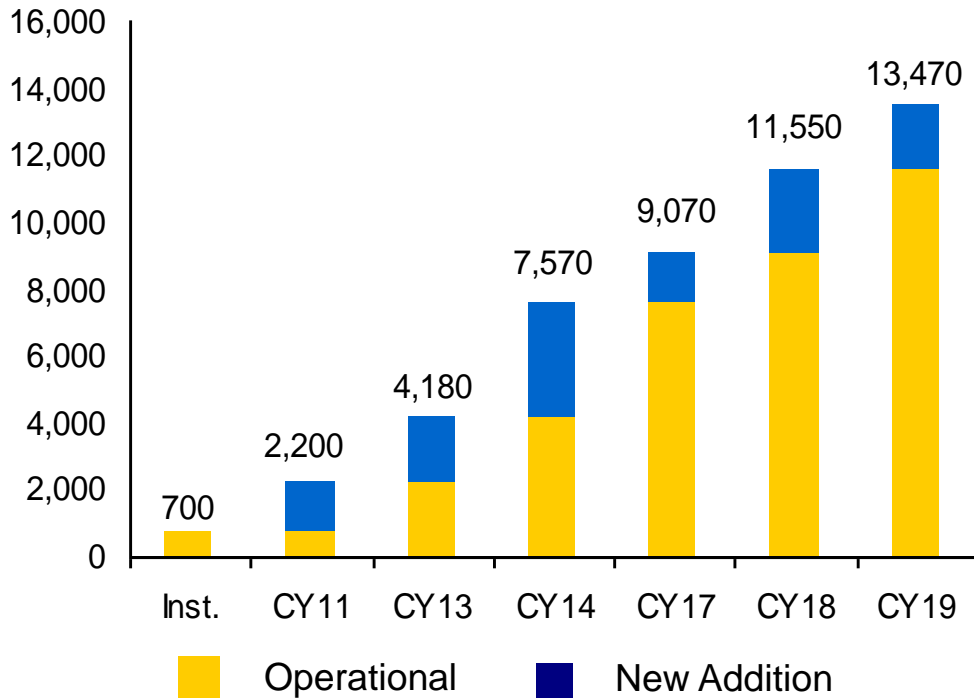


# Stages of Power Assets

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

# Optimal Hydro – Thermal Mix

Power capacity addition (MW)



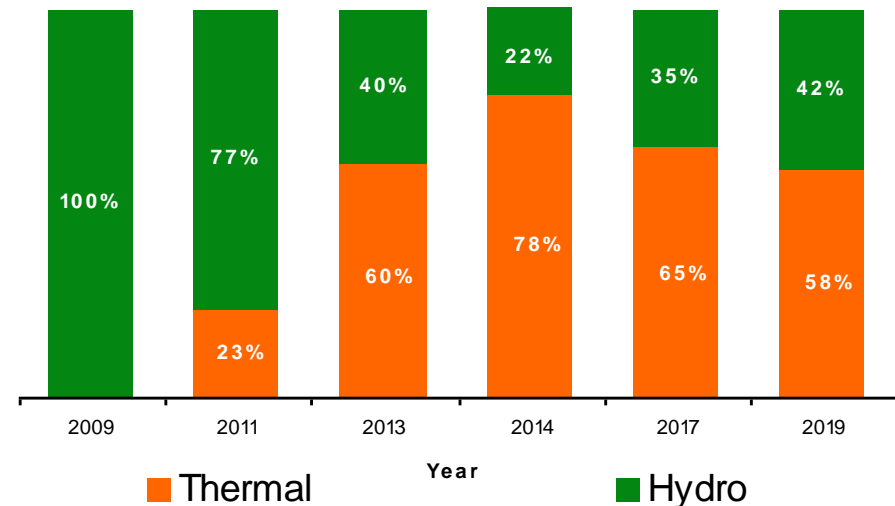
*Diversifying its fuel mix for power plants in line with the Gov objective of 60:40 Thermal : Hydro mix, by 2019*

*Largest Private Sector Hydro Power generator in the country*

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

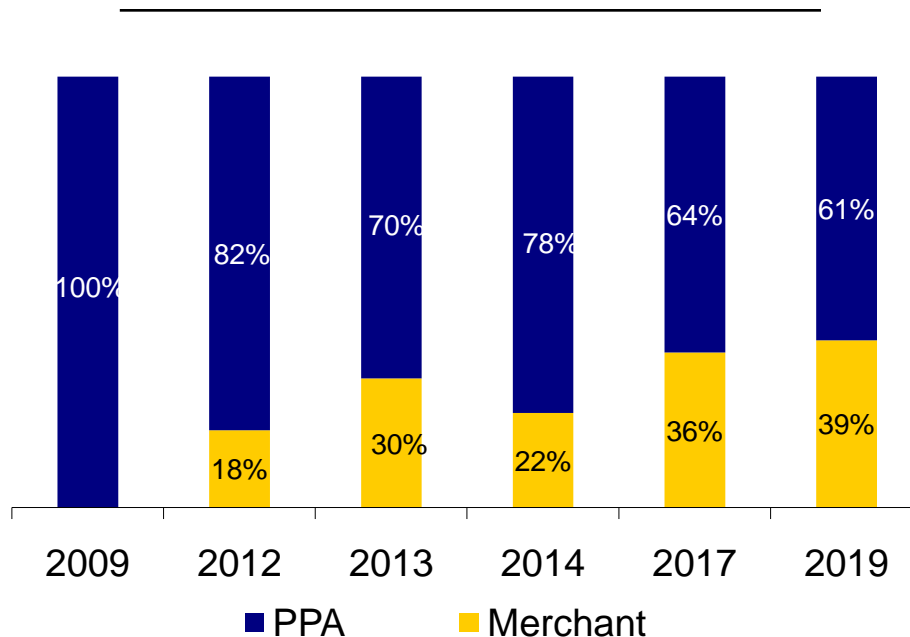
*Strong growth path and expected to grow from the current 700 MW to 2200MW by 2011, 7570MW by 2014 and 13,470 MW by 2019*

Thermal : Hydro Mix of Power Capacity



# Optimal Off-take Arrangements

Merchant vs. PPA



Merchant Power Units (MU)*	
2012	2,104
2013	4,297
2014	9,916
2015	11,201

*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*

\* Management Estimates

# Quality Equipment from Reputed Manufacturers

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

# Power Business – Summary of Project Status: Hydro

Project	Land	Water	Environment Clearance	DPR/EPC Order	Fuel	PPA	Equity Investments till date (Rs mn)
<b>Baspa II – 300 MW</b>	<b>PROJECT IN OPERATION</b>						<b>4,910</b>
<b>Vishnuprayag – 400MW</b>	<b>PROJECT IN OPERATION</b>						<b>5,090</b>
<b>Karcham Wangtoo – 1000 MW</b>	✓	✓	✓	✓	✓	<b>20% Merchant</b>	<b>11,250</b>
<b>Lower Siang – 2700 MW</b>	-	✓	Approval for pre-construction activities	DPR Approval Expected Shortly	✓	<b>50% Merchant</b>	<b>1,271</b>
<b>Hirong – 500 MW</b>	-	✓	Same as above	Appointed Acres of Canada for DPR prep.	✓	<b>50% Merchant</b>	

# Power Business – Summary of Project Status: Thermal

Project	Land	Water	Environment Clearance	DPR/EPC Order	Fuel	PPA as of 'Dec 09	Equity Investments till Date (Rs mn)
<b>Bina Power – 1250 MW</b>	✓	✓	✓	✓	✓	GoMP-42% 40 % Merchant	2,991
<b>Nigrie Thermal – 1320 MW</b>	92% Acquired <sup>(1)</sup>	✓	✓*	✓	✓	GoMP – 37.5% 50% Merchant	5,790
<b>Karchana Thermal – 1980 MW</b>	71% acquired <sup>(2)</sup>	✓	✓	DPR prepared	✓	33% Merchant <sup>(3)</sup>	1,520
<b>Bara Thermal – 3300 MW</b>	✓ <sup>(2)</sup>	✓	✓	✓	✓	38% Merchant <sup>(3)</sup>	3,433

**Total equity investments made across the projects as on 31<sup>st</sup> December 2009 –  
INR 36billion (US\$ 771 million)**

Note: (1) Entire Plant land for Nigrie in possession

(2) For Phase I

(3) 10% Merchant in Phase I

\*Letter awaited. Website says recommended for clearance



# Summary

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# Hydro Projects Delivering Sustained Returns

Particulars	Rs mn (US\$ mn)		
	JHPL	Erstwhile JPVL	JPVL (post merger)
	FY 2009	FY 2009	9 mth FY2010
Revenue	3,179 (68)	4,187 (89)	5,334 (113)
EBIDTA	2,945 (63)	3,790 (81)	4,833 (103)
PAT	1,429 (30)	1,865 (40)	1,854 (39)
Dividend Declared	15%	20%	-

Fx: 1 US\$ = INR47

- ✓ **Baspa-II HEP** Awarded the **Gold Shield** by the Ministry of Power for **outstanding performance in 2007-08**.
- ✓ **Baspa – II HEP** Accredited for **1million VER's per annum & Vishnuprayag for 1.32million VER's**
- ✓ **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.
- ✓ **Securitized receivables** from Vishnuprayag HEP **for Rs. 1,650 crs (US\$ 351 mn)** and in the process of securitizing receivables from Baspa - II HEP **for Rs. 1,000 crs (US\$ 213 mn)**



# Selected financial information

## Balance Sheet

Rs mn (US\$ mn)

Particulars	JHPL	Erstwhile JPVL	JPVL (post merger)
	FY 2009	FY 2009	9 mth FY2010
Networth	10,752 (229)	10,883 (232)	33,384 (710)
Secured & Unsecured Debt	9,113 (194)	11,449 (244)	39,104 (832)
Net Fixed Assets (including WIP)	18,360 (391)	16,601 (353)	57,220 (1,217)
Current Assets	4,320 (92)	2,696 (57)	12,771 (272)
Current Liabilities	1,560 (33)	524 (11)	1,867 (40)

Fx: 1 US\$ = INR47

# 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**

<p><b>JAL's Lineage</b></p>	<ul style="list-style-type: none"> <li>▪ <b>Expected to derive substantial synergies from the parent JAL</b> <ul style="list-style-type: none"> <li>▪ 40 years of experience in the E&amp;C business. Since 2002 till date, JAL has been involved in projects with 8,840 MW of hydroelectric generation capacity</li> <li>▪ The company has built plants for several quasi government entities</li> </ul> </li> <li>▪ <b>Vast experience and strong project management skills enable JAL a closer control over all aspects of projects</b></li> <li>▪ <b>JAL is expected to be the EPC contractors for all of JPVL's hydro projects and execute civil works for thermal projects</b></li> <li>▪ <b>Equipment from most reliable suppliers having proven track record</b></li> </ul>
<p><b>In – House Expertise</b></p>	<ul style="list-style-type: none"> <li>▪ <b>Internationally competent design team provides captive support for efficient implementation</b></li> <li>▪ <b>In-house heavy machinery engineering workshop , fabricating hydro-mechanical equipment and BOP for thermal power plants, to significantly reduce the capital expenditure requirements</b></li> <li>▪ <b>In-house Workshop to provide specialized coating for runners and under water parts of turbines</b></li> </ul>
<p><b>Deep Involvement of Senior Management</b></p>	<ul style="list-style-type: none"> <li>▪ <b>Typical to JAL's culture, senior director's presence on-site in the projects would strengthen the quality of execution</b></li> <li>▪ <b>Recent induction of highly experienced personnel from across the globe and having vast experience in Super Critical technologies</b></li> </ul>



## Appendix 2: Project Details

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# 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 – Rs. 491 Crores Internal Accruals – Rs. 87 Crores
Current status	In operation since <b>June 2003</b>
Offtake arrangement	Free Power – 12% (through out 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 by JHPL to Shareholders**
  - 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 Uttarakhand
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 <b>Oct 2006</b>
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 by erstwhile JPVL to shareholders**
  - 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	35+20 Years
Total project cost	Rs. 7,150 Crores
Means of finance	Debt – Rs. 5,005 Crores Equity – Rs. 2,145 Crores
Equity holding	JAL – 43.13% JPVL – 56.87% (Currently JPVL holds 17.8% which is expected to increase post additional equity infusion)
Expected commissioning	<b>2011</b>
Offtake arrangement	Free power – 12% (first 12 years) & 18% (after 12 years) <i>Merchant Power – 20% of power</i>

- ▶ *Entire debt for the project tied up on non-recourse basis.*
- ▶ *Eligible for CDM Benefits. Application in advanced stages of validation. 3.35 Mn CERs expected.*



# Jaypee Powergrid Limited - 217 KM Power Transmission Project



Project Detail	Description
Location & size	217 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	JPVL – 74% PTCIL – 26%
Expected Commissioning	Scheduled for completion by <b>December 2010</b>

- ▶ *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 GAMMON (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 <b>2011 (Phase -1)</b>
Offtake arrangement	GoMP- 42% (including 5% at variable cost) <b>Merchant Power – 40%</b>

- ▶ *Land – 694 hectares in possession. Property Fenced.*
- ▶ *Water- From River Betwa (100 cusecs).*
- ▶ *LoA by CIL for capacity of 2x250 MW received.*
- ▶ *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 <b>super critical technology boiler</b> , 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. 8,100 Crores
Means of finance	Debt – Rs. 5,670 Crores Equity – Rs. 2,430 Crores
Expected Commissioning	<b>2013</b>
Offtake arrangement	GoMP - 37.5% (including 7.5% at variable cost) <b>Merchant Power – 50%</b>

- ▶ **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. Total estimated reserves ~ 300 Mn tonnes. Mining to begin 1QCY10**
- ▶ **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) <b>super critical technology boiler</b> based Project in Karchana, Allahabad, Uttar Pradesh; Phase-I consisting of 2x660 MW
Concession Period	Owned
Total project cost	Rs. 7,600 Crores for Phase - I *
Means of finance	Debt – Rs. 5,700 Crores Equity – Rs. 1,900 Crores
Expected Commissioning	<b>2014</b>
Offtake arrangement	1320 MW Phase-I : GoUP - 90%, <b>Merchant Power – 10%</b> 660 MW Phase-II : GoUP - 20%, <b>Merchant Power – 80%</b>

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



\* Estimated

# Bara TPP – 5x660 MW

Project Detail	Description
Location & size	3,300 MW (in 2 Phases) <b>super critical technology boiler</b> based Project in Bara, Allahabad, Uttar Pradesh; Phase-I consisting of 3x660 MW
Concession Period	Owned
Total project cost	Rs. 11,500 Crores for Phase - I *
Means of finance	Debt – Rs. 8,625 Crores Equity – Rs. 2,875 Crores
Expected Commissioning	<b>2014 (Phase – I)</b>
Offtake arrangement	1980 MW Phase-I : GoUP - 90%, <b>Merchant Power – 10%</b> 1320 MW Phase-II : GoUP - 20%, <b>Merchant Power – 80%</b>

- ▶ **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 2<sup>nd</sup> March, 2009, SPA executed on 23<sup>rd</sup> July 2009.**
- ▶ **Order for BTG package for Phase – I placed with BHEL (in technical collaboration with Siemens & Alstom. Scheduled commissioning is Oct. 2013, Mar. 2014 & Aug. 2014 for Unit I, Unit II & Unit III respectively.**



\*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
Expected Equity holding	JPVL - 89% Government of Arunachal Pradesh - 11%
Expected commissioning	Expected commissioning by <b>2017*</b>
Offtake arrangement	Free Power – 12% (First 10 years) & 15% (11th Yr onwards)  <b>Merchant Power – 50% of the saleable power</b>

- ▶ *Tripartite agreement for Lower Siang HEP on river Siang in Arunachal Pradesh on BOOT basis was signed on 13<sup>th</sup> Dec 07*
- ▶ *DPR for 2000MW was purchased from NHPC. Revised DPR submitted to CEA in Jun-08*
- ▶ *TEC from CEA expected*
- ▶ *Environmental Clearance – EIA/EMP reports being prepared by consultants*
- ▶ *Site Mobilisation has commenced*



*\*1500 MW Phase-I*

# Hirong HEP- 500 MW

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

- ▶ *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*



# Kynshi Stage – II HEP - 450 MW

Project Detail	Description
Location & size	450 MW Hydro Power project in Meghalaya
Concession Period	40 Years
Expected Equity holding	JPVL – 74% Government of Meghalaya - 26%
Expected commissioning	Expected commissioning by <b>2019</b>
Offtake arrangement	Free Power – 12% + 1% additional for social development by State Govt. <b>Merchant Power – 50% of the saleable power</b>

- ▶ *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
Expected Equity holding	JPVL – 74% Government of Meghalaya - 26%
Expected commissioning	Expected commissioning by <b>2019</b>
Offtake arrangement	Free Power – 12% + 1% additional for social development by State Govt. <b>Merchant Power – 50% of the saleable power</b>

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





**THANK YOU**

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