

Ratchaburi Electricity Generating Holding PCL.

DB Access Thailand Corporate Day

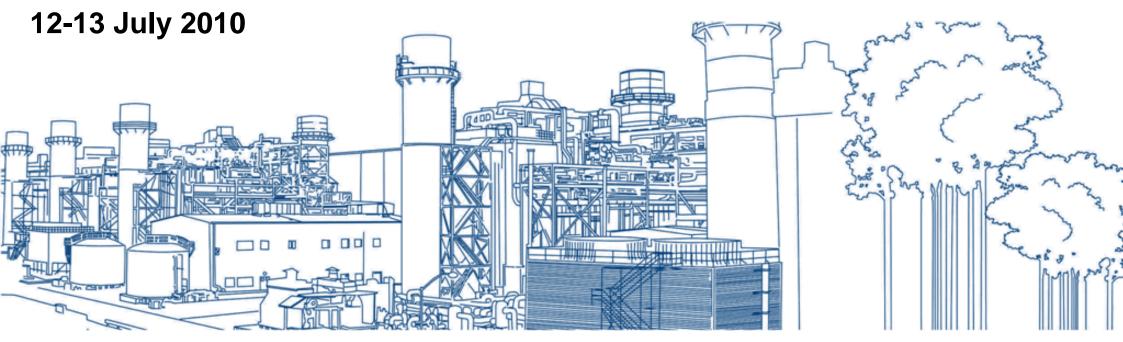


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Company History

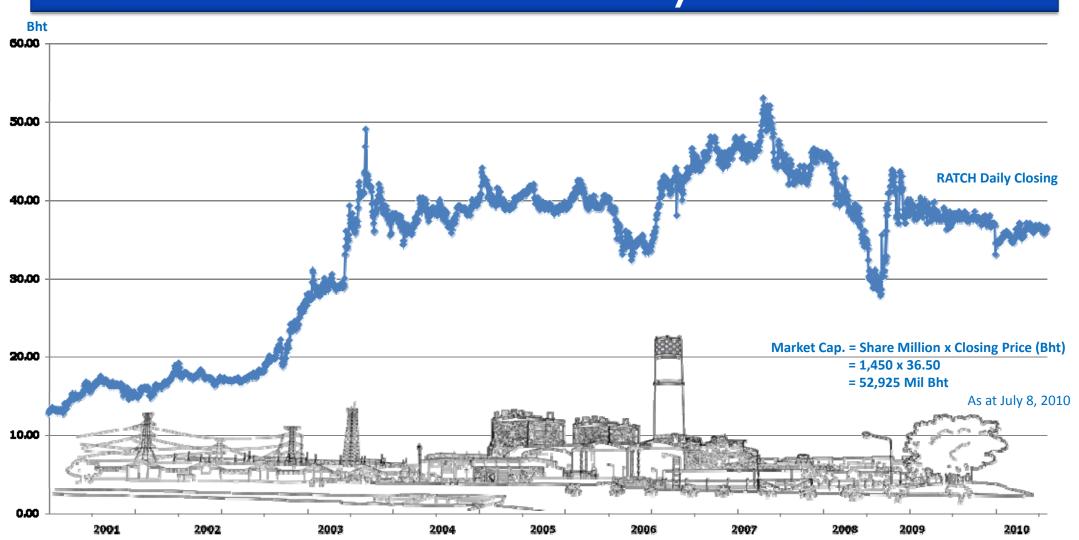


- In February 1999 the Thai Cabinet approved private participation on the EGAT Ratchaburi power plant with generating capacity of 3,645 MW, the single largest power plant in Thailand.
- The private participation plan involves the creation of the Ratchaburi Electricity Generating Holding Company Limited ("RATCH") and its wholly owned subsidiary, Ratchaburi Electricity Generating Company Limited, to own and operate Ratchaburi power plant.
- RATCH was established as a wholly owned subsidiary of Electricity
 Generating Authority of Thailand ("EGAT") in March 2000 and was listed on
 the Stock Exchange on Thailand ("SET") (symbol RATCH) in October
 2000.
- Following the IPO, EGAT remains the single largest shareholder (45%).
 RATCH is still to date, the largest IPP in Thailand.

Company History

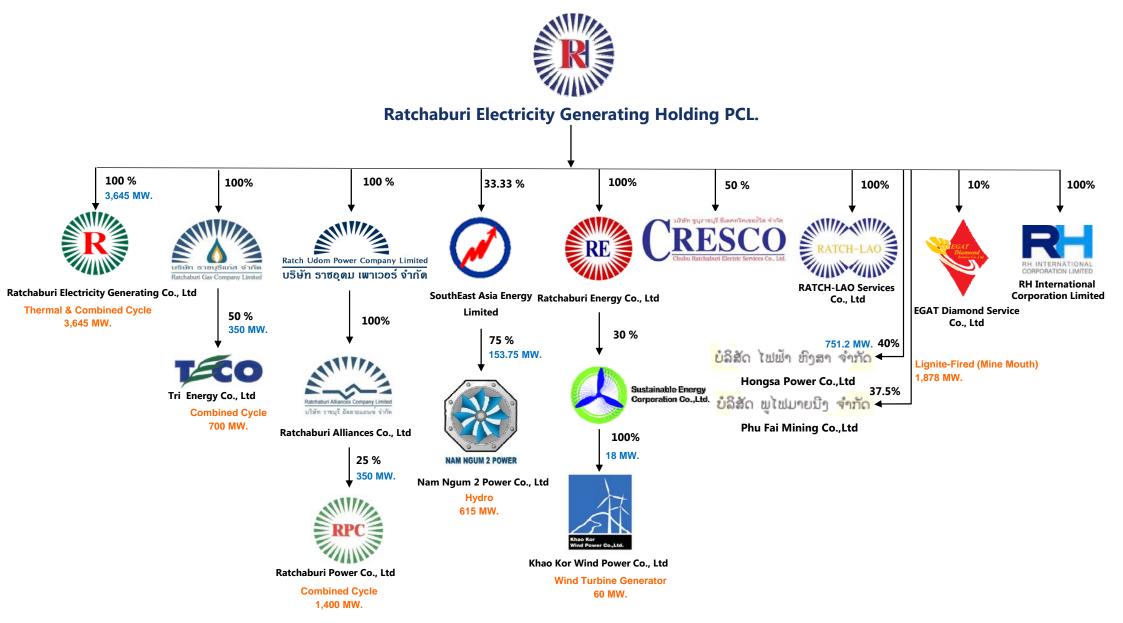






Company Structure

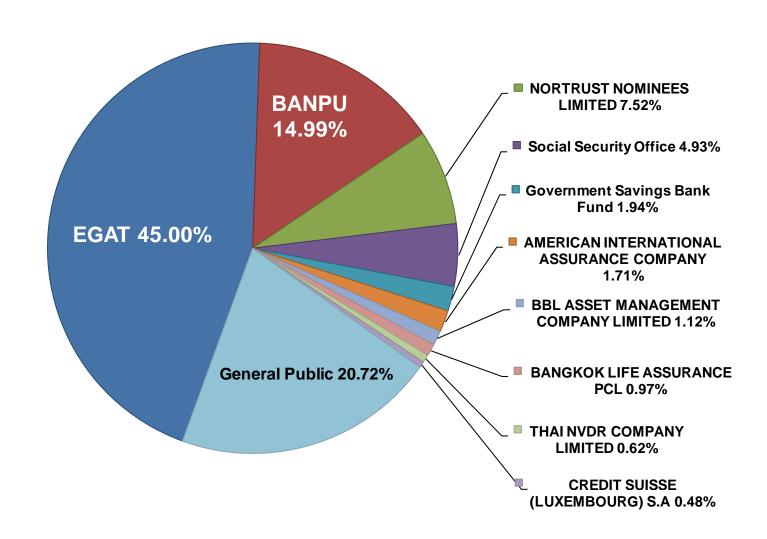




Shareholder's Structure



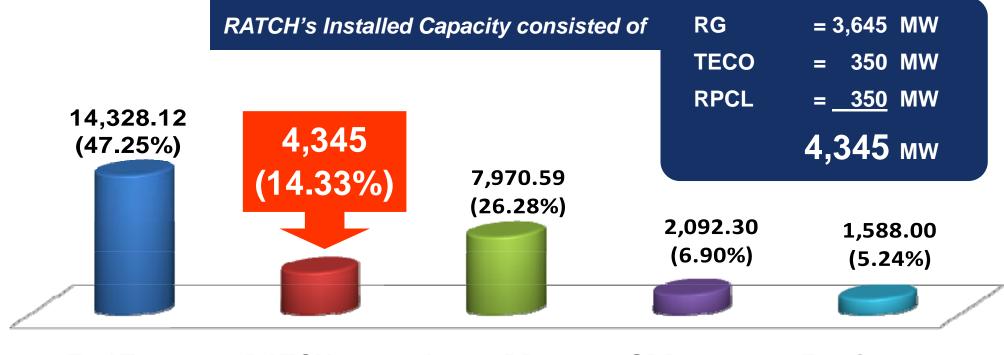
As at March 2, 2010



Total Installed Capacity of Thailand



Total Installed Capacity: 30,324.01 MW.



EGAT

RATCH

Other 8 IPPs

SPPs

Foreign Purchase

- . Electricity Generating PCL.
- 2. Independent Power (Thailand) Co., Ltd
- 3. Tri Energy Co., Ltd
- 4. Glow IPP Co., Ltd
- Eastern Power and Electric Co., Ltd
- 6. BLCP Power Limited
- 7. Gulf Power Generation Co., Ltd.
- . Ratchaburi Power Co., Ltd (Block 1)

Source: EGAT, May 2010

RATCH Highlights



RATCH Highlights



Capital Structure as at March 31, 2010



Strong Balance Sheet

• Total Shareholders' Equity 44,314 MB

Total Debt

26,330 MB

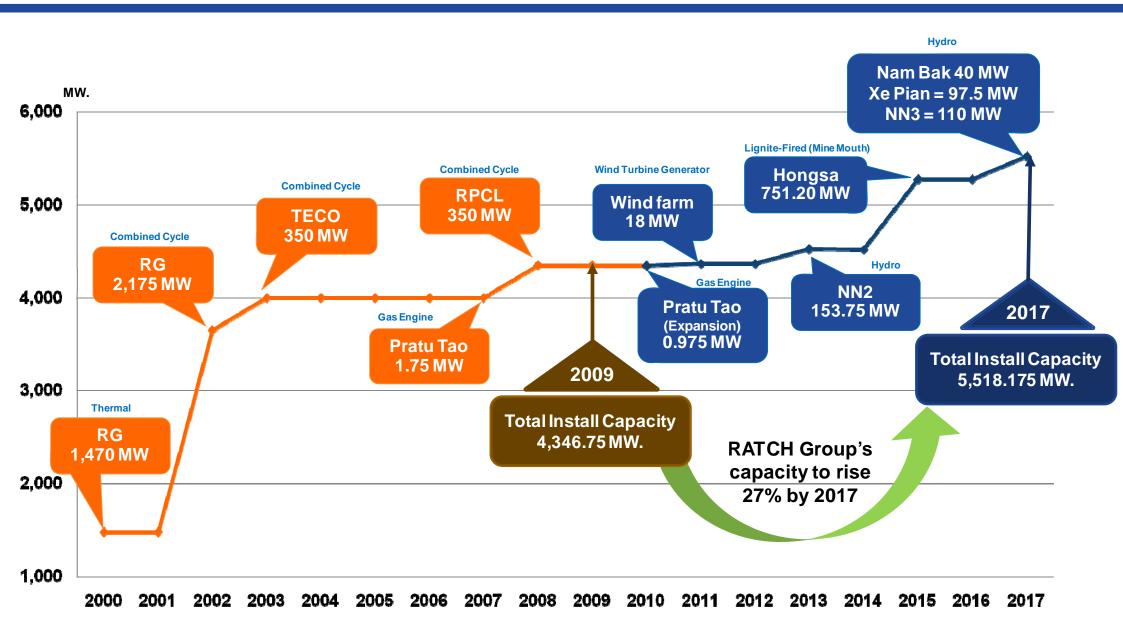
>> TOTAL CAPITAL

70,644 MB

D/E = 0.59 times

RATCH Highlights

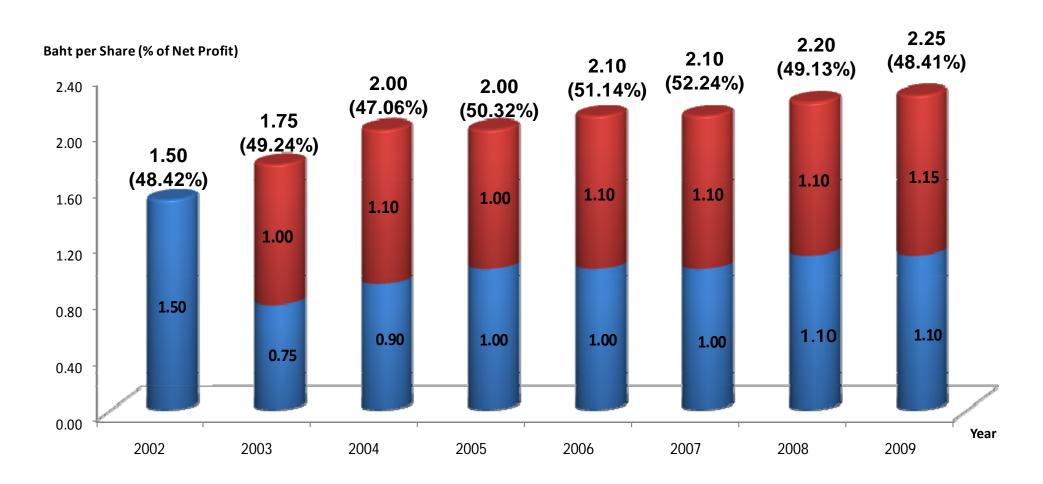




Dividends Paid



Stable dividends payment — RATCH has a dividend policy of no less than 40% of Net Profit



RATCH Growth Strategy



RATCH Growth Strategies



- Aiming to invest in renewable energy and biomass projects.
- Seeking investment opportunities abroad including Vietnam, Indonesia, Australia and the Philippines etc.
- Well prepared for the next bidding round since RATCH has in place at least 2 sites ready to accommodate the new power plants.
- Extending our investment to related business including operating and maintenance for power plants and coal mining.
- Continuing to strengthen the excellent relationships with existing business partners as well as seeking potential new business partners.

Appendix



Income Statement: 2008-Q1/2010



Unit: in Million Baht

	Q1/2010	2009	2008	2007	2006
Revenues	10,360.54	37,653.83	43,801.84	46,072.34	51,848.22
Expenses	<u>8,543.38</u>	<u>29,222.19</u>	35,798.22	<u>38,781.36</u>	44,223.34
EBIT	1,817.16	8,431.64	8,003.62	7,290.98	7,624.88
Interest Expense	169.48	861.10	1,293.37	1,364.54	1,443.75
Income Tax	<u>190.41</u>	<u>830.94</u>	<u>217.35</u>	<u>97.04</u>	<u>75.09</u>
Net Income	<u>1,457.27</u>	<u>6,739.60</u>	<u>6,492.90</u>	<u>5,829.40</u>	<u>6,106.04</u>
EPS (Baht)	1.01	4.65	4.48	4.02	4.21

Balance Sheet



Unit: in Million Baht

	Q1/2010	2009	2008	2007	2006
Asset					
Current Asset	20,942	19,196	19,520	21,071	21,923
Property, plant & equipments	37,091	37,762	40,383	42,876	45,233
Invest in Joint Ventures	9,467	9,494	7,362	5,676	3,986
Others Assets	3,144	2,890	2,407	678	963
Total Assets	70,644	69,342	69,672	70,301	72,105
Liabilities & Shareholders' Equity					
Current Liabilities	10,288	7,963	9,058	10,007	11,010
Long-term Liabilities	16,042	16,855	19,640	22,814	26,400
Shareholders' Equity	44,314	44,524	40,974	37,480	34,695
Total Liabilities & Shareholders' Equity	70,644	69,342	69,672	70,301	72,105

Outstanding Debt



Unit · in Million USD

As at March 2010

Unit: in Million Baht

RATCHGEN					
Q1/2010	19,022.77				
2009	19,756.85				
2008	22,989.16				
2007	26,604.40				
2006	29,743.14				
2005	32,585.89				
2004	35,764.51				

Maturity Year	
RATCHGEN	Debentures: 2010
	◆ Loans: 2015
TECO	◆ Loans: 2013
RPCL	◆ Loans: 2020

		Just : in Million USD
	TECO	
Q1/2010)	75.18
2009		91.73
2008		122.11
2007		135.93
2006		163.57
	RPCL	
	Million USD	Million Baht
Q1/2010	414.48	5,686.15
2009	438.81	6,085.35
2008	476.32	6,757.99



Project	MW	Location	Plant type	RATCH's holding	COD	Capacity contribution to RATCH
1. Ratchaburi Power Plant	3,645	Ratchaburi Province (Thailand)	Thermal & Combined Cycle	99.99%	TH: 2000 CCGT: 2001	3,645 MW
2. Tri Energy Power Plant	700	Ratchaburi Province (Thailand)	Combined Cycle	50%	2000	350 MW
3. Ratchaburi Power (RPCL)	1,400	Ratchaburi Province (Thailand)	Combined Cycle	25%	2008	350 MW
Total IPPs	5,745					4,345 MW
4. Pratu Tao-A (SPP)	1.75	Sukhothai Province (Thailand)	Associated Gas	100%	2007	1.75 MW
Total	5,746.75					4,346.75 MW

Projects under Construction



Project	MW	Location	Plant type	RATCH's holding	Status (%)	Expected COD	Capacity contribution to RATCH
1. Nam Ngum 2 Project	615	Lao PDR	Hydro	25%	96.83 (May 2010)	Jan 2013	153.75 MW
2. Pratu Tao-A (Expansion)	0.975	Sukhothai Province	Associated Gas	100%	70.00 (July 2010)	Aug 2010	0.975 MW
Total	615.975						154.725 MW





In Thailand

Project	MW	Location	Plant type	RATCH's holding	Status (%)	Expected COD	Capacity contribution to RATCH
1. Khao Kor Wind Farm	60	Phetchabun Province	Wind	30%	 Negotiating PPA Preparing RFP for lenders Turbine Supply and Balance of Plant Agreement signed on 18 March 2010 	2011	18 MW
Total	60						18 MW.



In Lao PDR

Project	MW	Location	Plant type	RATCH's holding	Status (%)	Expected COD	Capacity contribution to RATCH
1. Hongsa Thermal Project	1,878	Lao PDR	Lignite-Fired	40%	• PPA , CA & EPC signed	2015	751.2 MW
2. Nam Ngum 3 Project	440	Lao PDR	Hydro	25%	Tariff MOU signedNegotiating PPA& CA with EGAT	2017	110 MW
3. Xe-Pian Xe-Namnoy Project	390	Lao PDR	Hydro	25%	Tariff MOU endorsed by Energy Policy and Planning Office (EPPO)	2017	97.5 MW
4. Nam Bak Project	160	Lao PDR	Hydro	25%	Tariff proposal sent to EGAT	2017	40 MW
Total	2,868						998.70 MW





Ratchaburi Power Plant (RG)

Project Summary	
Location :	Ratchaburi Province
Technology :	Thermal & Combined Cycle
Total Capacity :	3,645 MW.
Contributed capacity to RATCH:	3,645 MW. (100%)
PPA:	25 Years (Remaining:15 Years)
COD:	TH#1-2 - Oct 2000, CCGT #1-2 – Apr 2002 and CCGT#3 – Nov 2002
Outstanding Loan:	THB 18,648 Million (as at March 2010)
Outstanding Debenture:	THB 375 Million (as at March 2010)
Debt to Equity :	1.27 times
Lender:	KTB, KBANK, BAY, GSB, BT & TMB
Investment Amount (for RATCH) :	THB 18,275 Million

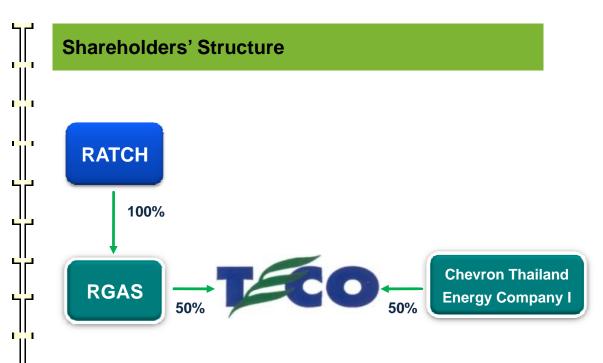






Tri Energy Power Plant (TECO)

Project Summary	
Location :	Ratchaburi Province
Technology :	Combined Cycle
Total Capacity :	700 MW.
Contributed capacity to RATCH:	350 MW. (50%)
PPA:	20 Years (Remaining:10 Years)
COD:	July 2000
Outstanding Loan:	THB 2,568.76 Million
(as at March 2010)	(USD 75.18 Million)
Debt to Equity :	0.46 times
Lender :	BTMU, Mizuho & SMBC
Investment Amount (for RATCH) :	THB 1,809 Million

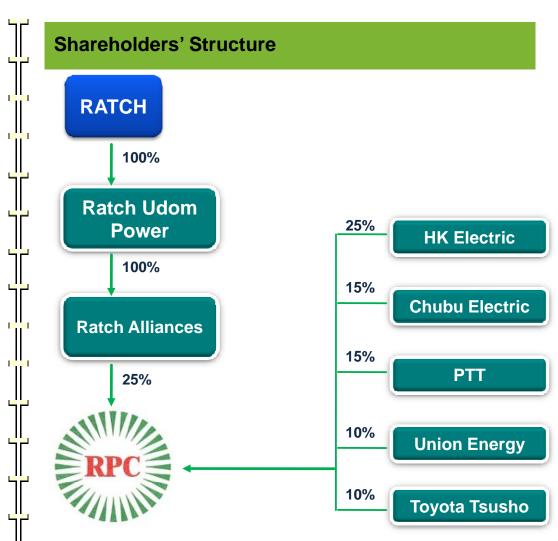






Ratchaburi Power Plant (RPCL)

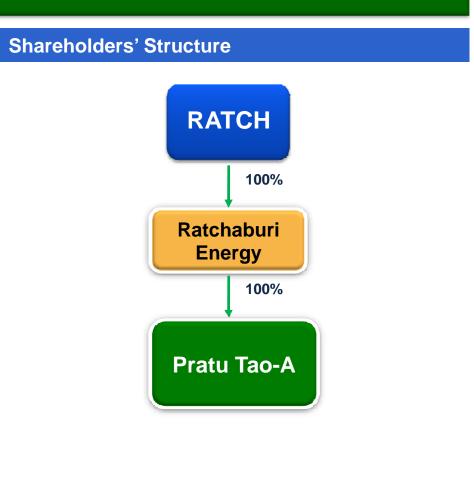
Project Summary	
Location :	Ratchaburi Province
Technology :	Combined Cycle
Total Capacity :	1,400 MW.
Contributed capacity to RATCH:	350 MW. (25%)
PPA:	25 Years (Remaining: 23Year)
COD:	CCGT #1 -March 2008
	CCGT #2 –June 2008
Outstanding Loan:	THB 5,686 Million
(as at March 2010)	USD 414 Million
Debt to Equity :	2.17 times
Lender :	USD: JBIC, Calyon, HSBC & SMBC
	THB: BBL & KTB
Investment Amount	USD 53.25 Million
(for RATCH) :	THB 1,831 Million





Pratu Tao-A

Project Summary					
Location :	Sukhothai Province in Thailand				
Technology:	Gas Engine				
Total Capacity :	1.75 MW.				
Contributed capacity to RATCH:	1.75 MW. (100%)				
PPA:	5 Years (Automatic Renewal)				
COD:	June 2007				
Investment Amount (for RATCH):	THB 62 Million				



Projects under Construction





Num Ngum 2 Project

Projects Summary	
Location:	Lao PDR
Technology:	Hydro Power Plant
Total Capacity :	615 MW. (3x205 MW.)
Contributed capacity to RATCH:	153.75 MW. (25%)
PPA:	27 Years
IOD:	December 2010
COD:	January 2013
Project Cost :	THB 30,832 Million
Total Debt :	THB 15,003 Million
	USD 180 Million
Debt to Equity :	2.5:1 times
Lender:	KTB, TMB & SCIB
Investment Amount (for RATCH):	THB 2,202.25 Million

Project Progress

Shareholders' Structure

- RATCH-Lao Service Co., Ltd has signed O&M Agreement with Num Ngum 2 Power co., Ltd on June 25, 2009
- Construction completed of 97.2% as at June 2010
 - ✓ Reservoir level reach to 311 masl* (Operating water level 345-375 masl)

 * masl: Meters Above Sea Level

33.3% **RATCH** 38% **C.H Karnchang** 16.7% **Bangkok** 75% **SouthEast Expressway Asia Energy** 5.3% **Shalapak** 5.3% **P.T Construction** Lao PDR Irrigation 25%

1.4%

Team Consulting

Projects under Construction



Pratu Tao-A (Expansion)

Project Summary					
Location:	Sukhothai Province in Thailand				
Technology:	Gas Engine				
Total Capacity :	1.75 MW.				
Contributed capacity to RATCH:	1.75 MW. (100%)				
PPA:	5 Years (Automatic Renewal)				
COD:	June 2007				
Investment Amount (for RATCH):	THB 62 Million				

Ptatu Tao-A (Expansion)	
Total Capacity :	0.975 MW.
Contributed capacity to RATCH:	0.975 MW. (100%)
PPA:	5 Years (Automatic Renewal)
COD:	Aug 2010
Investment Amount (for RATCH):	THB 32 Million

RATCH 100% Ratchaburi Energy 100% Pratu Tao-A Pratu Tao-A

(Expansion)



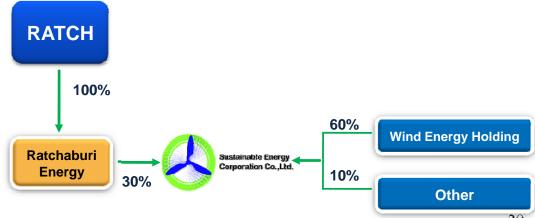


Khao Kor Wind Farm Project

Project Summary	
Location:	Phetchabun Province in Thailand
Technology:	Wind Turbine Generator
Total Capacity :	60 MW.
Contributed capacity to RATCH:	18 MW. (30%)
PPA:	n.a.
IOD:	n.a.
COD:	In 2011
Project Cost :	USD 120 Million
Debt to Equity :	70:30 times
Lender:	n.a.
Investment Amount (for RATCH):	USD 10.8 Million

Project Progress

- MOU signed on December 3, 2008
- Share Purchase Agreement & Shareholder Agreement signed on February 18, 2009
- RATCH has purchased another 4 % stake in the Project on June 30,2009
- Preparing RFP for lenders
- Turbine Supply and Balance of Plant Agreement signed on March 18, 2010



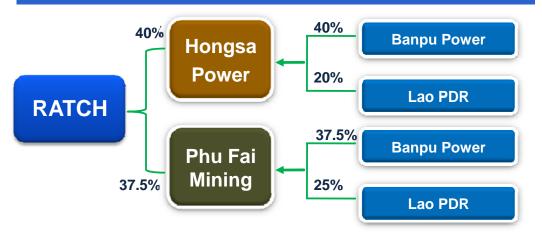


Hongsa Thermal Project

Projects Summary					
Location:	Lao PDR				
Technology:	Lignite-Fired Power Plant				
Total installed Capacity :	1,878 MW.				
Contributed capacity to RATCH:	751.2 MW. (40%)				
Fuel:	Lignite				
PPA:	25 Years				
IOD:	n.a.				
COD:	In 2015				
Project Cost :	USD 3,710 Million				
Debt to Equity :	3:1 times				
Lender:	n.a.				
Investment Amount (for RATCH):	USD 371 Million				

Project Progress

- Signed the Shareholder Agreement on February 5, 2009 for the establishment of Hongsa Power Co., Ltd. and Phu Fai Mining to operate Hongsa Power Plant Project
- Signed Tariff MOU with EGAT on May 13,2009
- Signed Concession Agreement with the Government of Lao PDR on November 30, 2009
- Signed EPC on December 24, 2009
- Signed PPA with EGAT on April 2, 2010
- Signed EPC (Transmission Line Contractor) on June 2, 2010



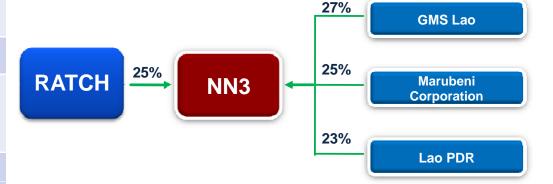


Num Ngum 3 Project

Projects Summary					
Location :	Lao PDR				
Technology:	Hydro Power Plant				
Total Capacity :	440 MW. (2x220 MW.)				
Contributed capacity to RATCH:	110 MW. (25%)				
PPA:	27 Years				
IOD:	n.a.				
COD:	In 2017				
Project Cost :	USD 905 Million				
Debt to Equity :	70:30 times				
Potential Lender :	- USD Loan :ADB, JBIC & PROPARCO - THB Loan: n.a.				
Investment Amount (for RATCH):	USD 71.25 Million				

Project Progress

- Shareholder Agreement signed with GMS Lao Co.,Ltd., Marubeni Corporation and Lao Holding State Enterprise on May 13, 2008
- Signed Tariff MOU with EGAT on March 11, 2010
- Negotiating PPA with EGAT & CA with GOL



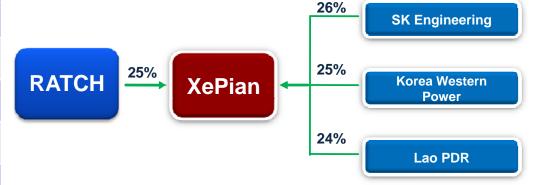


Xe Pian - Xe Namnoy Project

Projects Summary	
Location :	Lao PDR
Technology:	Hydro Power Plant
Total Capacity :	390 MW.
Contributed capacity to RATCH:	97.5 MW. (25%)
PPA:	n.a.
IOD:	n.a.
COD:	In 2017
Project Cost :	USD 830 Million
Debt to Equity :	70:30 times
Lender:	n.a.
Investment Amount (for RATCH):	USD 63 Million

Project Progress

- Joint Development Agreement signed with SK Engineering & Construction and Korean Western Power on August 6, 2007
- Project Development Agreement signed with the government of Lao PDR on November 14, 2008
- Tariff MOU endorsed by Energy Policy and Planning Office (EPPO)





Nam Bak Project

Projects Summary					
Location:	Lao PDR				
Technology:	Hydro Power Plant				
Total Capacity :	160 MW.				
Contributed capacity to RATCH:	40 MW. (25%)				
PPA:	n.a.				
IOD:	n.a.				
COD:	In 2017				
Project Cost :	n.a.				
Debt to Equity :	70:30 times				
Lender:	n.a.				
Investment Amount (for RATCH):	n.a.				

Project Progress

Tariff proposal sent to EGAT



RATCHGEN Generation Information: Dispatch Factor



	Q1/2	2010	20	09	20	80	20	07	20	06
	DF.	EAF	DF.	EAF	DF.	EAF	DF.	EAF	DF.	EAF
	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
TP#1	44.65	85.98	48.82	86.03	51.36	99.41	62.05	80.99	75.79	90.34
TP#2	7.96	100.00	52.33	87.38	52.12	90.40	64.18	81.83	76.10	98.52
CCGT #1	72.33	98.52	76.69	81.04	74.12	88.95	81.62	85.88	75.85	80.11
CCGT #2	74.72	97.27	80.34	90.84	80.31	93.44	79.76	80.15	86.08	94.80
CCGT #3	77.11	88.88	61.24	90.53	70.55	78.47	84.55	91.42	79.13	90.86

RATCHGEN Generation Information: By Type of Power Plant

	Q1/2010	2009	2008	2007	2006
Total Net Generation (GWh)	3,799.47	12,324.21	16,468.39	19,841.64	23,585.21
Net Generation (TP#1-2) (GWh)	728.12	1,787.77	3,465.10	6,329.18	9,166.72
- By Gas	557.41	1,631.84	3,094.53	5,789.47	8,688.97
- By Oil	170.71	155.93	370.57	539.71	477.75
Net Generation (CCGT#1-3) (GWh)	3,071.35	10,536.44	13,003.29	13,512.46	14,418.49
- By Gas	3,049.09	10,536.44	12,976.22	13,512.46	14,413.21

22.26

27.07

- By Oil

5.28

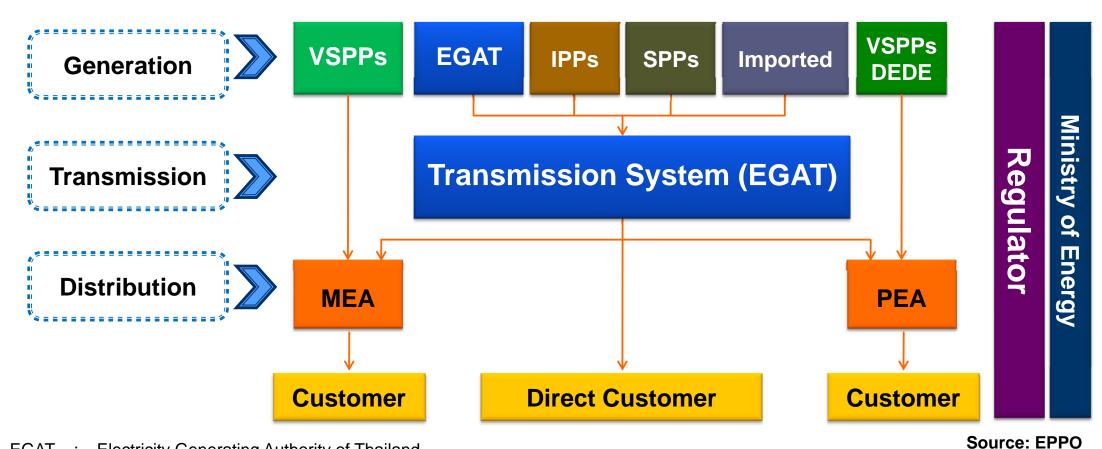




		Q1/2009	2009	2008	2007	2006
Fuel Consump	otion (TH#1-2)					
- Gas	Million MMBTU	5.71	16.45	31.34	56.53	83.16
- Heavy Oil	Million Liters	39.85	38.18	92.07	131.89	115.59
Fuel Consump	otion (CCGT#1-3)					
- Gas	Million MMBTU	21.90	76.02	93.94	96.70	102.36
- Diesel	Million Liters	4.96	0.48	6.39	0.96	1.65
Gas Price (Ave	erage) Baht/MMBTU	227.57	240.88	224.78	198.07	195.29
Heavy Oil Price	e (Average) Baht/Liters	16.58	16.09	17.82	14.22	13.53

Thailand Electricity Market Structure





EGAT: Electricity Generating Authority of Thailand

PEA : Provincial Electricity Authority

MEA : Metropolitan Electricity Authority

IPPs : Independent Power Producer

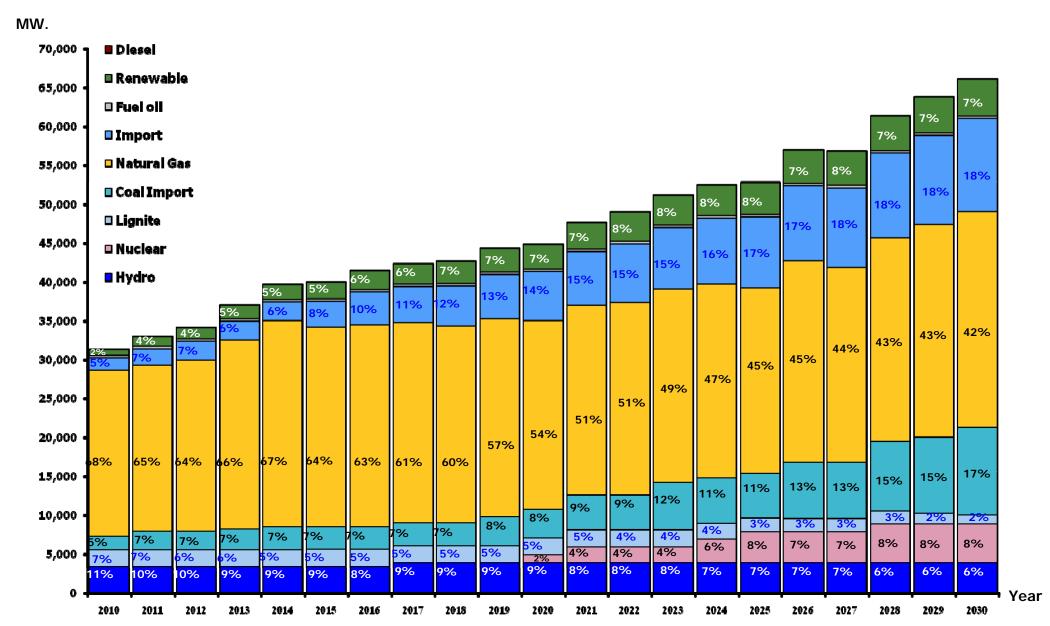
SPPs : Small Power Producer

VSPPs: Very Small Power Producer

DEDE: Department of Alternative Energy Development and Efficiency

PDP 2010 : Electricity Capacity by Type of fuel

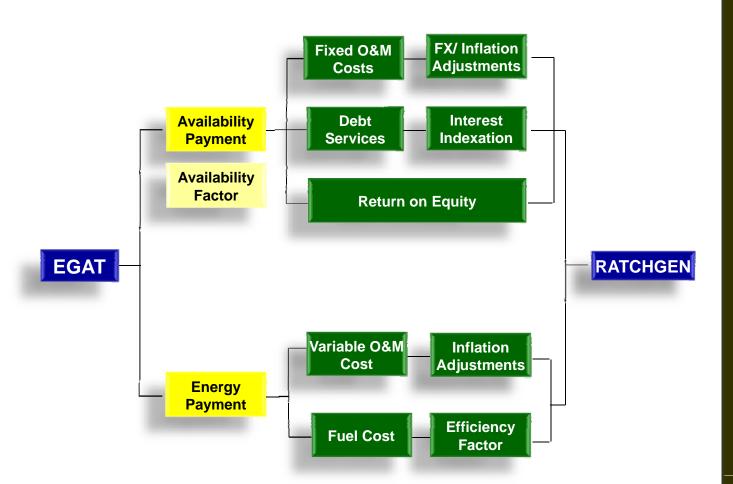




Power Purchase Agreement (PPA)



RATCHGEN: PPA Tariff Structure



- Thermal Units and Combined Cycle Units have separate 25 year PPAs.
- Tariff is designed to cover all operating and financing costs and yield IRR of 19%.
- Revenues are from Availability Payments ("AP") and Energy Payments ("EP").
- AP (Baht/MW/month) includes fixed operation and maintenance expenses, debt servicing, and return on equity.
- AP is payable irrespective of whether electricity is dispatched or not as long as plants are available as agreed capacity.
- EP (Baht/MWh) includes fuel costs and variable operation and maintenance costs with inflation indexation and pass through mechanism.

Monthly Peak Generation





	Peak Generation		
Year	MW.	Increase (Decrease)	
		MW.	%
2010	24,010	1,965	8.91
2009	22,045	(523)	(2.32)
2008	22,568	(18)	(80.0)
2007	22,586	1,522	7.23
2006	21,064	526	2.56
2005	20,538	1,212	6.27

- o In 2009, the highest peak generation was 22,045 MW on April -2.32% decrease yoy.
- o In 2010 (1st Half), the highest peak generation was 24,010 MW on May 8.91% increase yoy.

Monthly Energy Generation





	Energy Generation			
Year	MW.	Increase (Decrease)		
		MW.	%	
2010 (1st Half)	80,942	12,174	17.70	
2009 (1st Half)	68,768			
2009	143,456	(4,980)	(3.35)	
2008	148,436	1,552	1.06	
2007	146,884	4,797	3.38	
2006	142,088	7,234	5.36	
2005	134,854	7,364	5.78	

- In 2009, average monthly energy generation growth was -3.35%
- o In 2010, average monthly energy generation growth was 17.70%

