

TRT Business Overview



300 MVA 220 – 69 – 24 kV Metropolitan Electricity Authority Chidlom Terminal Station, Bangkok THAILAND







1	Company Profile, Business & Products
2	Business Goals
3	Electrical Demand Overview
4	Transformer Industry Overview
5	Structure of Income and Financial Highlight
6	Our Highlight Performance
7	Question & Answers

Characteristic of Business & Products











Company Profile

Registered Name: TIRATHAI PUBLIC COMPANY LIMITED

Established : August 27, 1987

Paid-up Capital : 202,462,500 Baht

TIRATHAI transformers

Employees : 510 persons

Ground area : $22,080 \text{ m}^2$

(13.8 rai)

Building area : $11,141 \text{ m}^2$













TRT & It's Subsidiary

TIRATHAI PUBLIC COMPANY LIMITED (Plant I)

Manufacture for Distribution transformer Capacity up to 3 MVA System voltage up to 36 kV





TIRATHAI PUBLIC COMPANY LIMITED (Plant II)

Manufacture for Power transformer
Capacity up to 300 MVA System voltage up to 230 kV



THAIFINS COMPANY LIMITED

Manufacture for Transformer's fins and Tank support to Tirathai public Company Limited



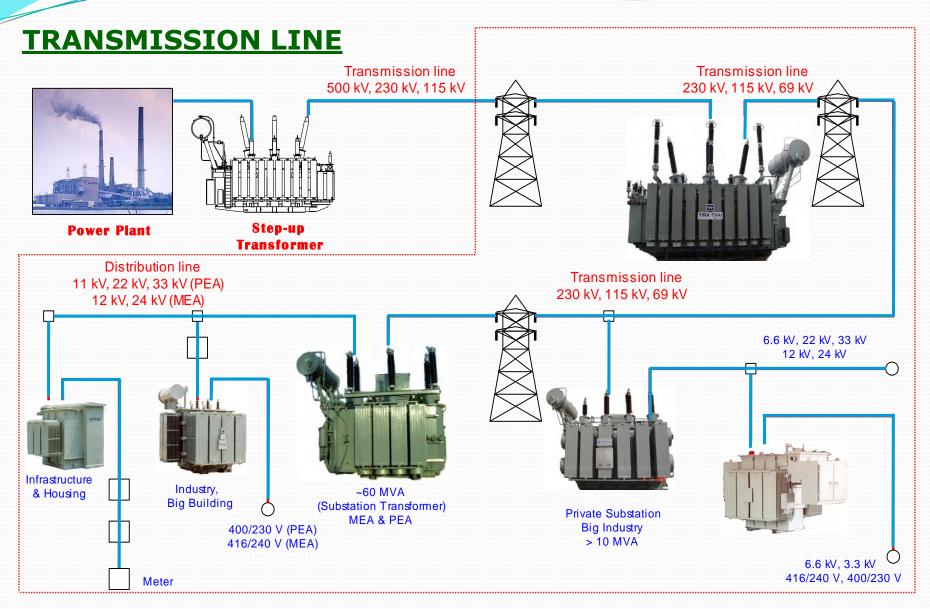
Technology License













Products of TRT

POWER TRANSFORMER

Under license of FUJI ELECTRIC, JAPAN Under license of VA TECH EBG Transformatoren GmbH / Austria Capacity 5 - 300 MVA Rated Voltage 230 kV



DISTRIBUTION TRANSFORMER

Under license of FUJI ELECTRIC / Japan Capacity 1 - 100 MVA Rated Voltage 36 kV



RECTIFIER & INDUCTION FURNACE

Under license of FUJI ELECTRIC, JAPAN Capacity 1 - 10 MVA Rated Voltage 36 kV

Business Goals



Mission & Visions

Visions

- To be a leading transformer manufacturer in South-East Asia
- To meet Customers' needs
- To maintain good image of the organization

Missions

- Determined to develop the technology and efficiency of its production for excellence of transformer manufacturing
- Develop personnel at all levels to obtain the required knowledge and abilities by means of Team work, Integrity, Quality and Customer Focus
- Create the added value to shareholders and social responsibilities, as well as fair treatment to all stakeholders

Company Goals

Being a leading transformer manufacturer in

South-East Asia Region

- TRT is a Thai manufacturer of transformer who produced variety of quality Transformer products with international standard upon customers' needs and satisfaction.
- > TRT also provides variety quality service to meet our customers' demands.
- Having production capacity to produce up to 300 MVA with Voltage 230 KV of Power Transformer in order to cope up with the incremental Electricity Demand both locally and regionally.

Electricity Demand Overview

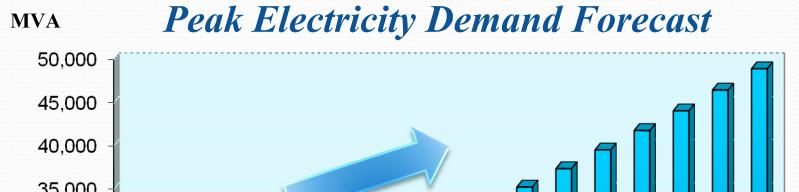


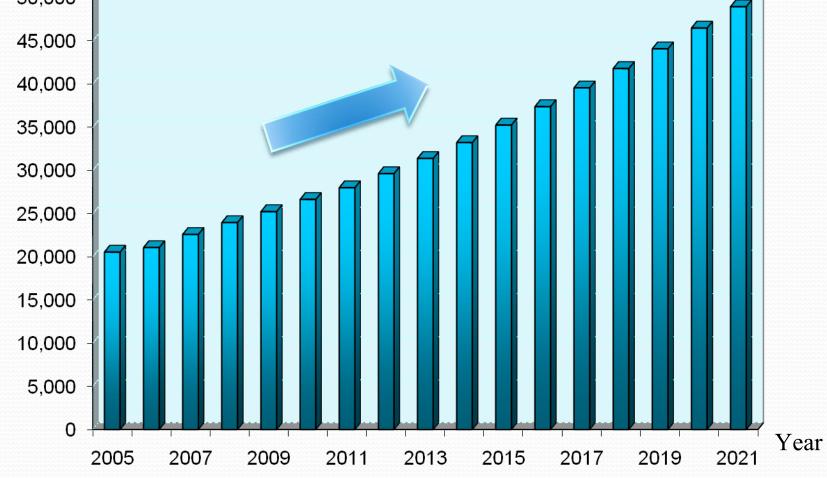
Peak Electricity Demand Forecast

Year	MW	PEAK Increase MW	0/0	GWH	ENERGY Increase GWH	%	Load Factor (%)	
2005	20,538	1,212	6.27	134,827	7,370	5.78	74.94	
2006	21,064	527	2.56	142,005	7,178	5.32	76.96	
2007	22,586	1,522	7.23	148,073	6,068	4.27	74.84	
2008	23,957	1,371	6.07	156,335	8,262	5.58	74.49	
2009	25,225	1,268	5.29	164,774	8,439	5.40	74.57	
2010	26,635	1,410	5.59	173,835	9,061	5.50	74.50	
2011	27,996	1,361	5.11	182,618	8,782	5.05	74.46	
2012	29,625	1,629	5.82	193,258	10,640	5.83	74.47	
2013	31,384	1,759	5.94	204,844	11,586	6.00	74.51	
2014	33,216	1,832	5.84	216,949	12,105	5.91	74.56	
2015	35,251	2,035	6.13	230,370	13,421	6.19	74.60	
2016	37,382	2,131	6.05	244,365	13,966	6.08	74.62	
2017	39,560	2,178	5.83	258,657	14,291	5.85	74.64	
2018	41,795	2,235	5.65	273,387	14,730	5.69	74.67	
2019	44,082	2,287	5.47	288,404	15,017	5.49	74.69	
2020	46,481	2,399	5.44	304,154	15,750	5.46	74.70	
2021	48,958	2,477	5.33	320,376	16,223	5.33	74.70	



Source: Energy Policy and Planning office, Ministry of Energy, Thailand







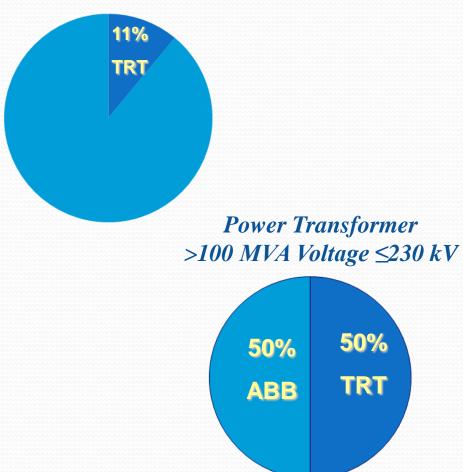
Transformer Industry Overview

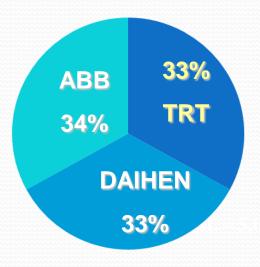


TRT Local Market Share

Distribution Transformer $\leq 3000 \ kV - 10,000 \ kV \ Voltage \leq 33 \ kV$







Structure of Incomes

&

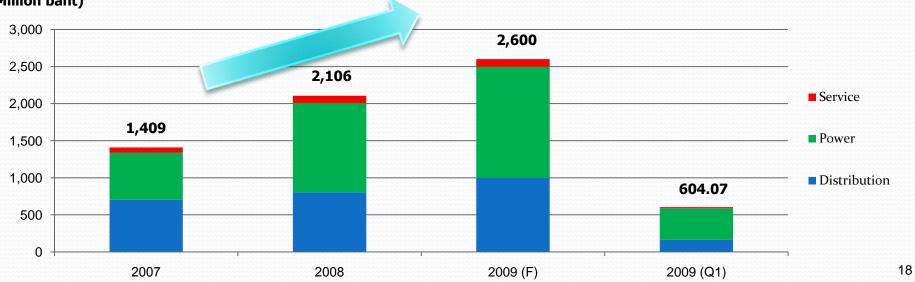
Structure of Incomes

(by type of Transformer & Service)

(Million Baht)

	2007	2008	2009 (F)	2009 (Q1)
- Distribution	704	804	1,000	163.25
- Power	637	1,205	1,500	425.82
- Service	68	97	100	15.00



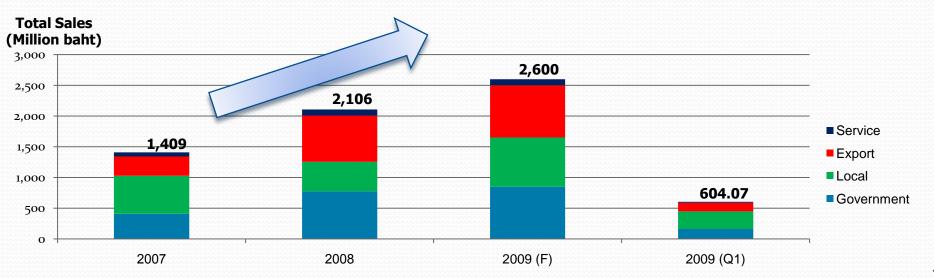


Structure of Incomes

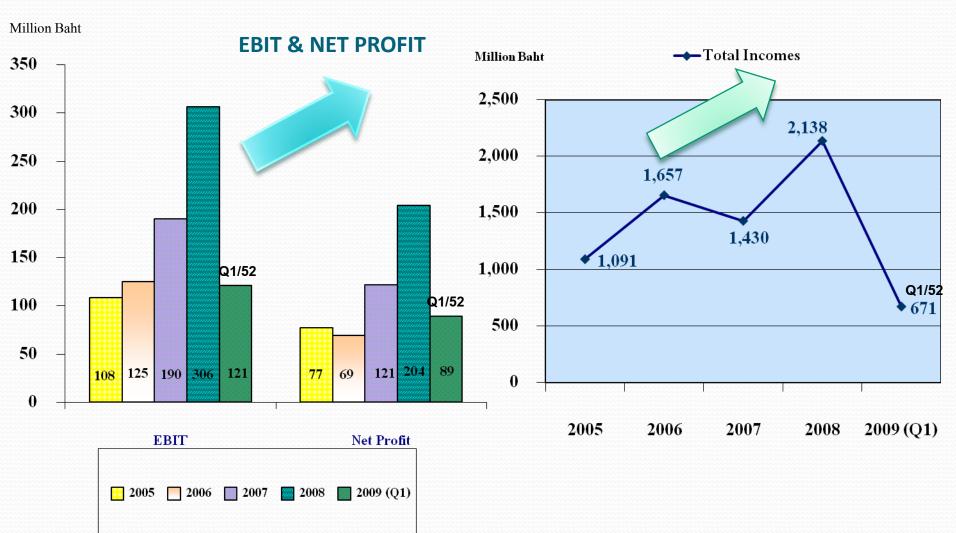
(by Type of Customers)

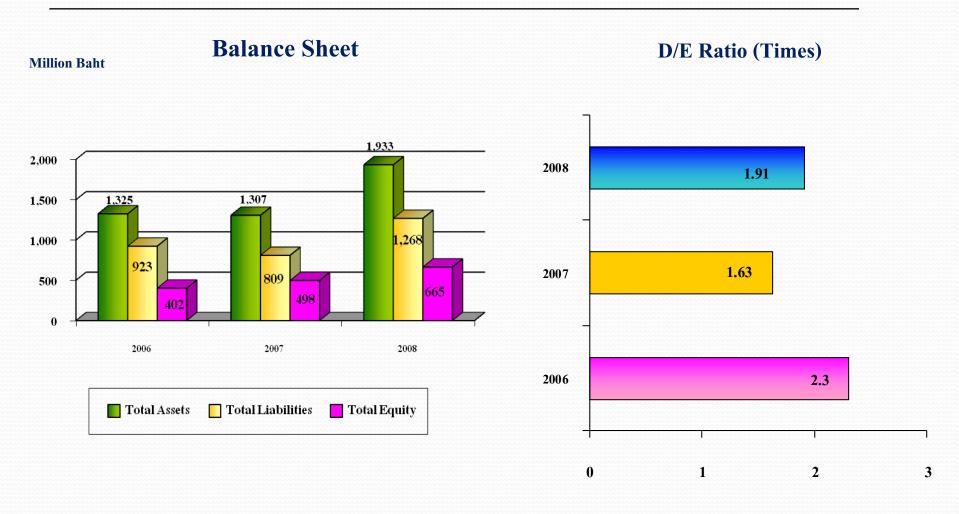
(Million Baht)

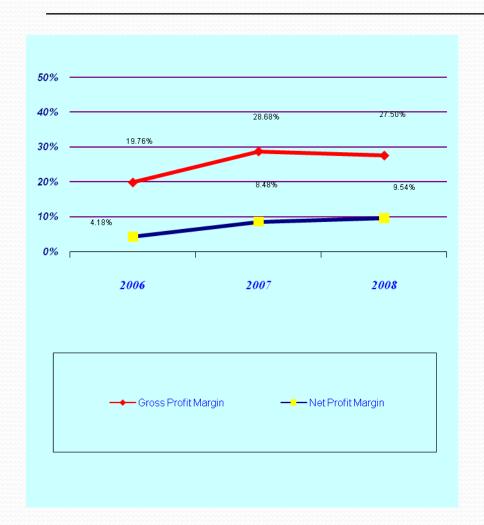
	2007	2008	2009 (F)	2009 (Q1)
- Government	409	775	850	161.87
- Local	619	479	800	285.36
- Export	313	755	850	141.84
- Service	68	97	100	15.00

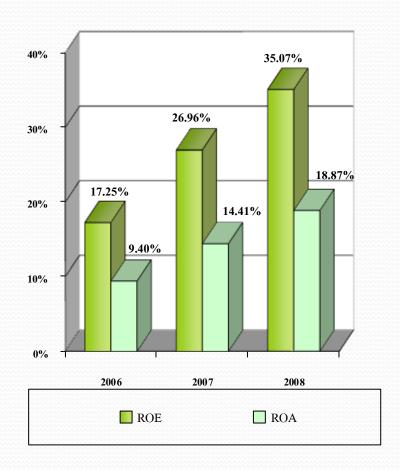


Unit: Million Baht	2007	2008	Q1' 2009
Total Revenue	1,430.17	2,138.46	671.49
Revenue from Sales & Service	1,409.44	2,106.18	661.11
Gross Profit	404.19	579.21	173.69
EBITDA	230.96	335.97	129.86
EBIT	189.62	305.66	120.76
Net Profit	121.26	203.94	88.70
Total Assets	1,307.17	1,932.73	2,123.25
Total Liabilities	809.43	1,267.52	1,369.34
Shareholders' Equity	497.74	665.21	753.91
Financial Ratio			
Gross Profit Margin (%)	28.68%	27.50%	26.27%
Net Profit Margin (%)	8.48%	9.54%	N/A
Return on Asset (%)	14.41%	18.87%	N/A
Return on Equity (%)	26.96%	35.07%	N/A
Debt Equity Ratio (times)	1.63	1.91	1.82
Unit: Baht/share			
Book Value Per Share	4.91	6.57	6.57
Earning Per Share	1.20	2.01	0.88
Dividend Per Share	0.61	1.01	-



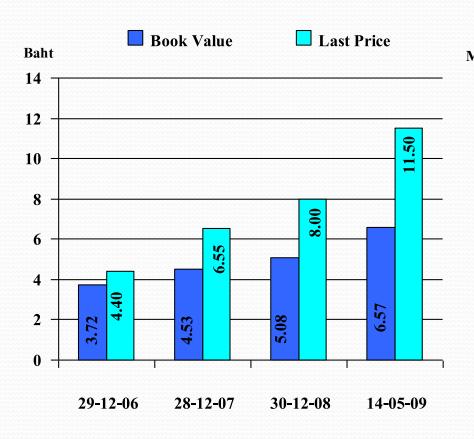


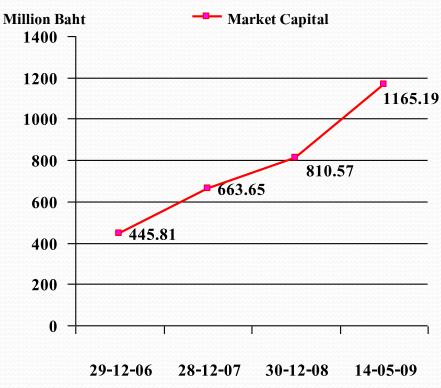




As of	28/12/2007	30/12/2008	14/05/2009
P/E	8.03	6.90	5.71
P/BV	1.45	1.57	1.75
Book Value per share (Baht/share)	4.53	5.08	6.57
Dividend Yield (%)	-	7.62	8.78
Last Price (Baht)	6.55	8.00	11.50
Market Capital	663.65	810.57	1,165.19









Our Highlight Performance



Example of Backlog Orders as of 30 March 2009 > 30 Million Baht

Client	Project	Values
		(Million Baht)
EGAT.	The Greater Bangkok Area	196
PEA.	PEA-M(BU)073	118
A.I. Engineering	PEA's Substation	152
Stone & Webster	Singapore's Project	108
Loxley	PEA's Substation	81
Japan AE	Korea's Project	38
	Canada's Project	38

ELECTRICITY GENERATING AUTHORITY of THAILAND

180/200/300 MVA 3 Ø 230/121 - 11 kV Qty. 2 units

Project : The Greater Bangkok Area

Within Feb. 2010







JULY 2008

60/70 MVA 3 Ø 220 – 15 KV QTY. 4 UNITS **SIEMENS PAKISTAN ENGINEERING CO., LTD.**

PROJECT: ATLAS POWER PLANT, SHEIKHUPURA, PAKISTAN







NOVEMBER 2008

125 MVA 3 Ø 225 – 115 – 23 KV QTY. 3 UNITS THE SOUTHERN VIETNAM POWER PROJECT

PROJECT: 220 KV, LONG AN SUBSTATION, VIETNAM







DECEMBER 2008

300 MVA 3 Ø 220 – 69 – 24 KV QTY. 2 UNITS **METROPOLITAN ELECTRICITY AUTHORITY**

PROJECT: CHIDLOM TERMINAL STATION, BANGKOK / THAILAND









Question & Answers

