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since 1922



Opportunity Day

IEC On The Fly

The Stock Exchange of Thailand

20th Aug 2015





This presentation was prepared to assist investment community to better understand the company's financial status and operation.

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For further information, please contact Investor Relations Section of the International Engineering PCL. (IEC) at Tel. (662) 6190199 or Email: iecgroup1922@gmail.com



Highlights

- **Overview**
- **Strategic Roadmap Update**
- **Financial Performance**
- **Market Outlook & Conclusion**

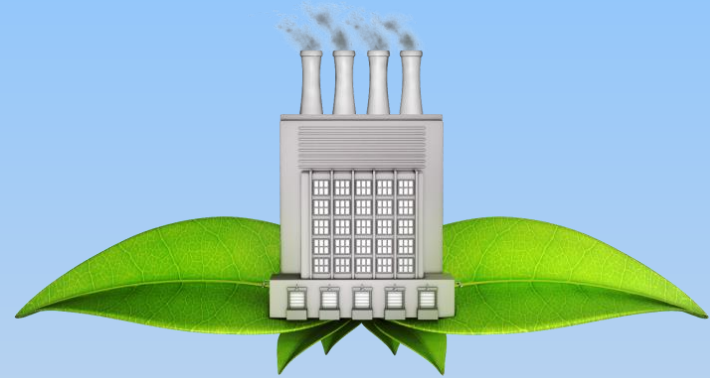




Business Focus (as of Q2,2015)

Energy 89%

MSW Power plant
Solar Power Plants
Biomass Power Plant



Information 11%

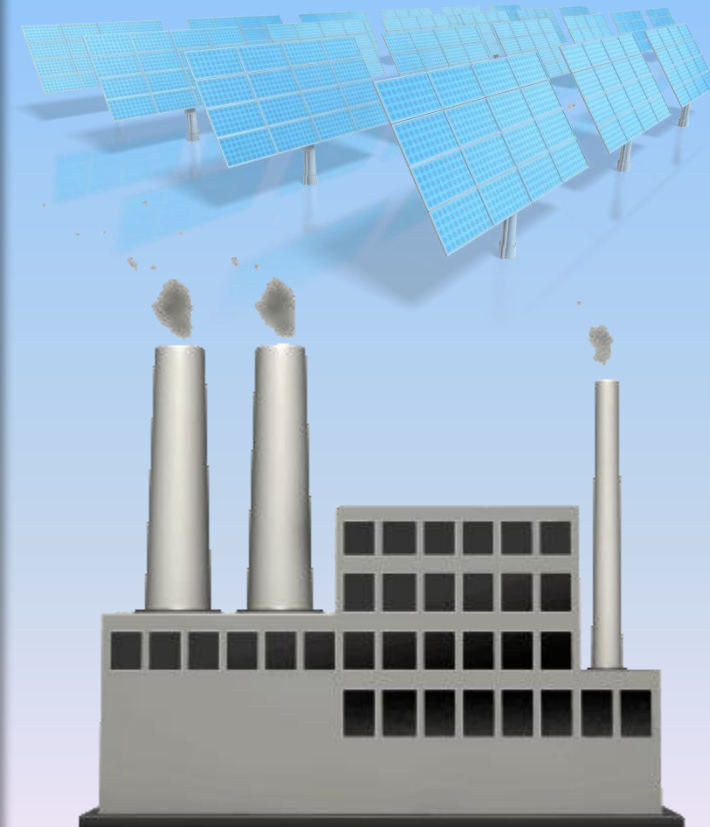
Hardware & Software Solutions
for CAT





IEC Power Plants

Power plant	COD	Location	Owned by IEC	Contracted capacity (MW)	Installed capacity
PV Solar					
Mae Ramat	Dec 2013	Tak	100%	5.25	6.3
Mae Tha	Sep 2013	Lumpoon	100%	1.92	2.6
Mae Malai	Jun 2014	Chiang mai	100%	1.92	2.3
Total (PV Solar Plants)				9.09	11.20
Biomass					
IEC Sakaeo 1	Apr 2013	Sakaeo	75%	8	9.9
MSW					
Gidec	Dec 2014	Songkhla	50%	6.5	6.78
Total (IEC Power Plants)				23.59	27.88





Hat Yai MSW Power Plant

Project Description

Location: Hat Yai, Songkla

Shareholder: IECGE 50%, EGCO 50%

SCOD: December 2014

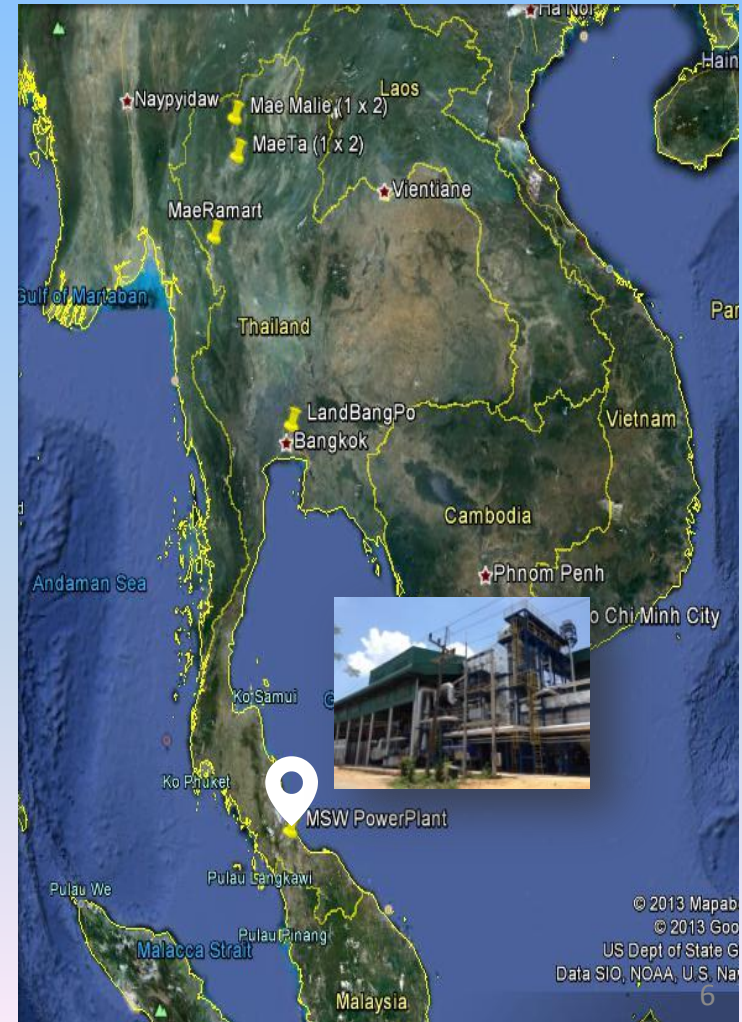
Contracted Capacity with PEA: 6.5 MW

Contract with Municipality : 25 years

Adder: 3.5 Baht **Tipping Fee:** 290 Baht/ton

Land: 10 rais (Rental)

Current capacity is 4-5 MW.





IEC Sakaeo 1 Power Plant

Project Description

Location: Muang, Sakaeo

Shareholder: IEC 75%, Other 25%

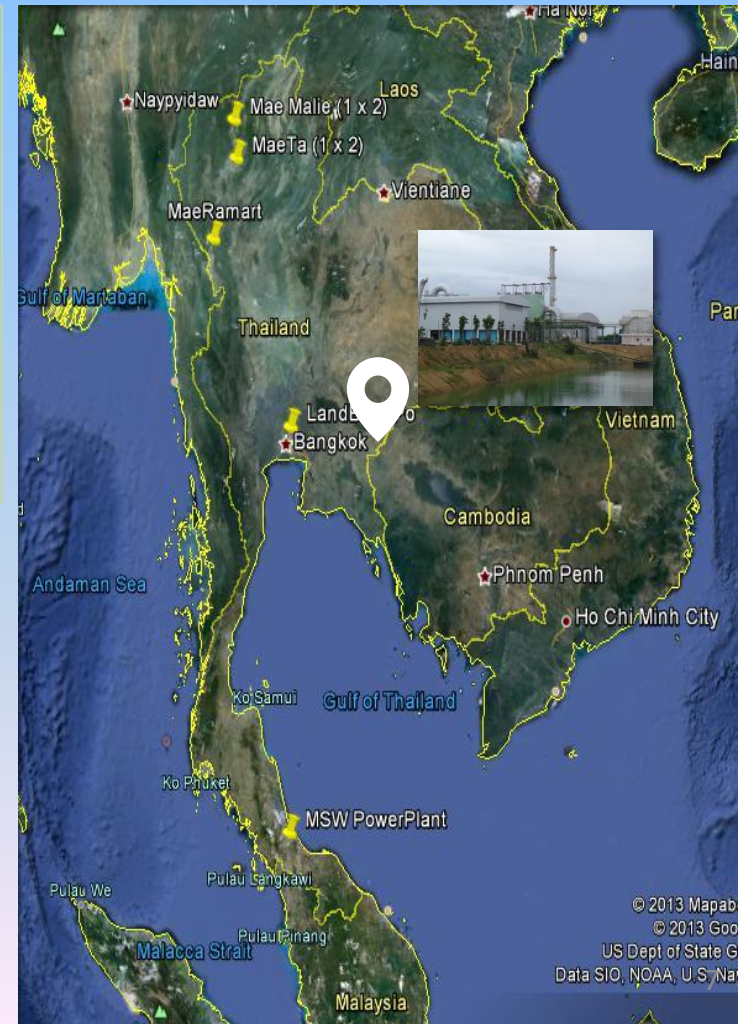
SCOD: April 2013

Contracted Capacity with PEA: 8 MW

Adder: 0.30 Baht

Feedstock: Wood chip, wood bark, palm fiber

Land: 67 rais





Mae Ramat Solar Power Plant

Project Description

Location: Mae Ramat, Tak

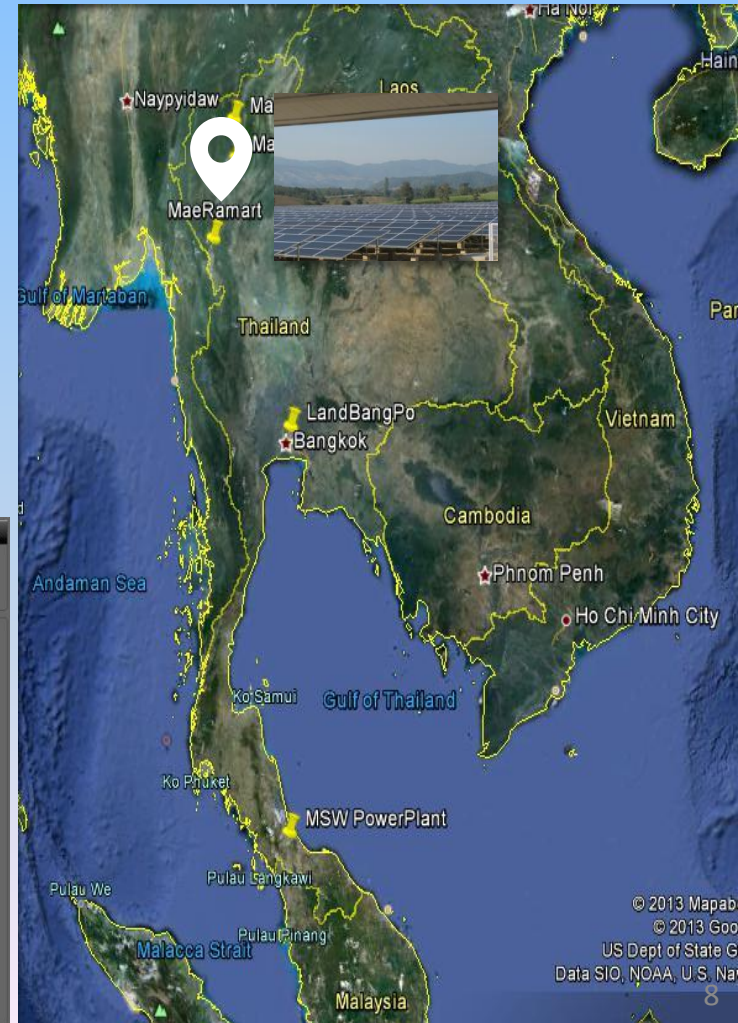
Shareholder: IEC 100%

SCOD: December 2013

Contracted Capacity with PEA: 5.25 MW

Adder: 6.5 Baht

Land: 150 rais (Rental)





Mae Tha Solar Power Plant

Project Description

Location: Mae Tha, Lumpoon

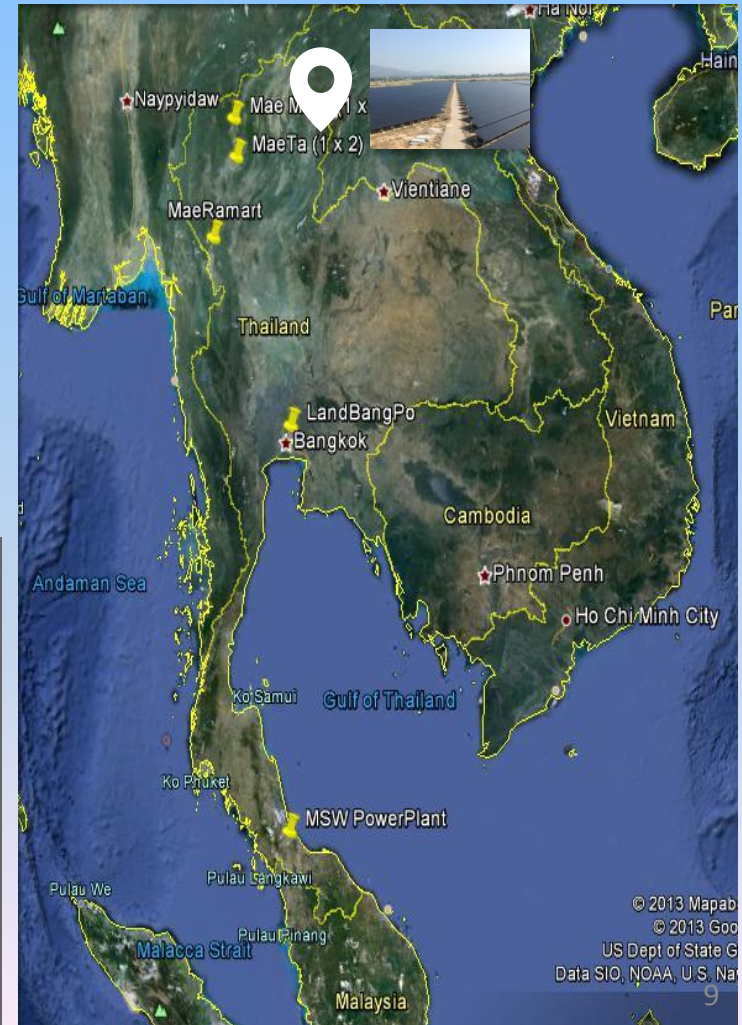
Shareholder: IECGE 100%

SCOD: September 2013

Contracted Capacity with PEA: 1.92 MW

Adder: 6.5 Baht

Land: 43 rais





Mae Malai Solar Power Plant

Project Description

Location: Mae Malai, Chiang Mai

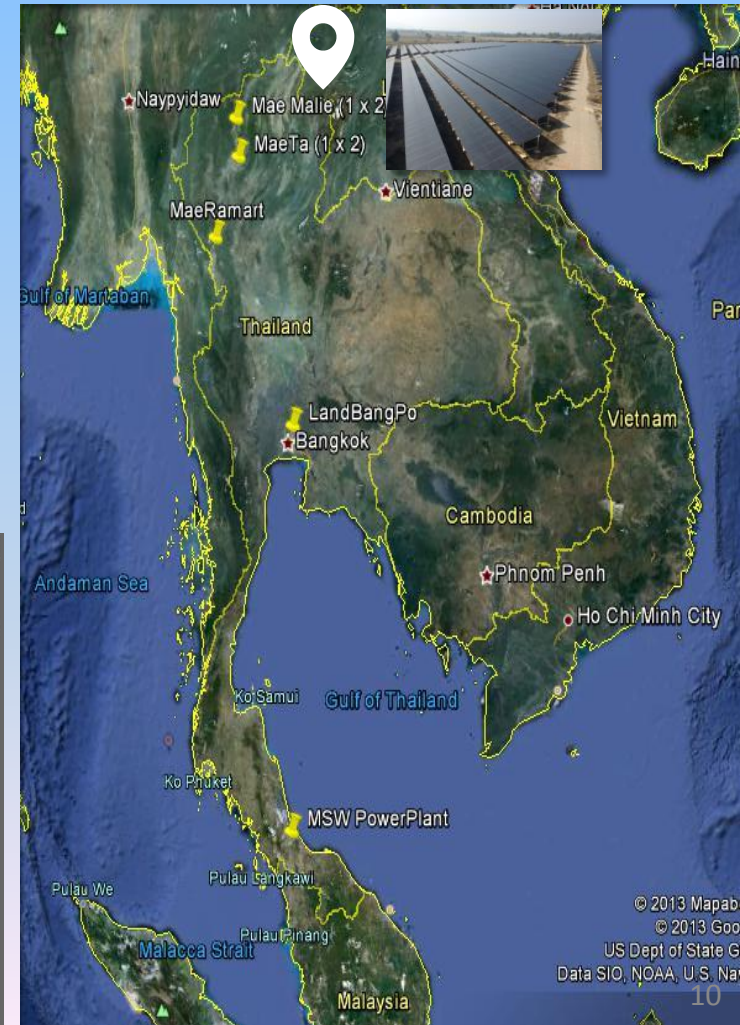
Shareholder: IECGE 100%

SCOD: June 2014

Contracted Capacity with PEA: 1.92 MW

Adder: 8 Baht

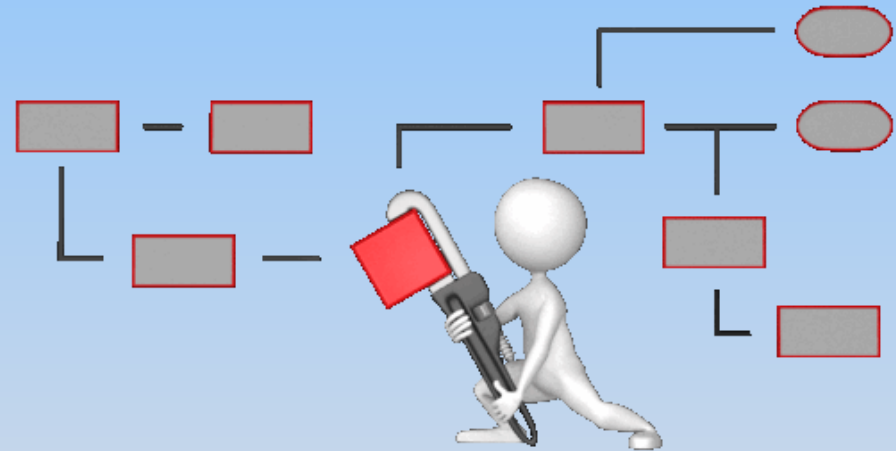
Land: 52 rais





Highlights

- Overview
- **Strategic Roadmap Update**
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- Market Outlook & Conclusion





Under Construction Projects

Rayong Waste Plastic Recycling

Project Description

Location: Nikompattana, Rayong

Shareholder: IEC 100%

Installed Capacity: 300 tons per day

Production: Plastic Pellet (PE)

Investment: 663 millions Baht

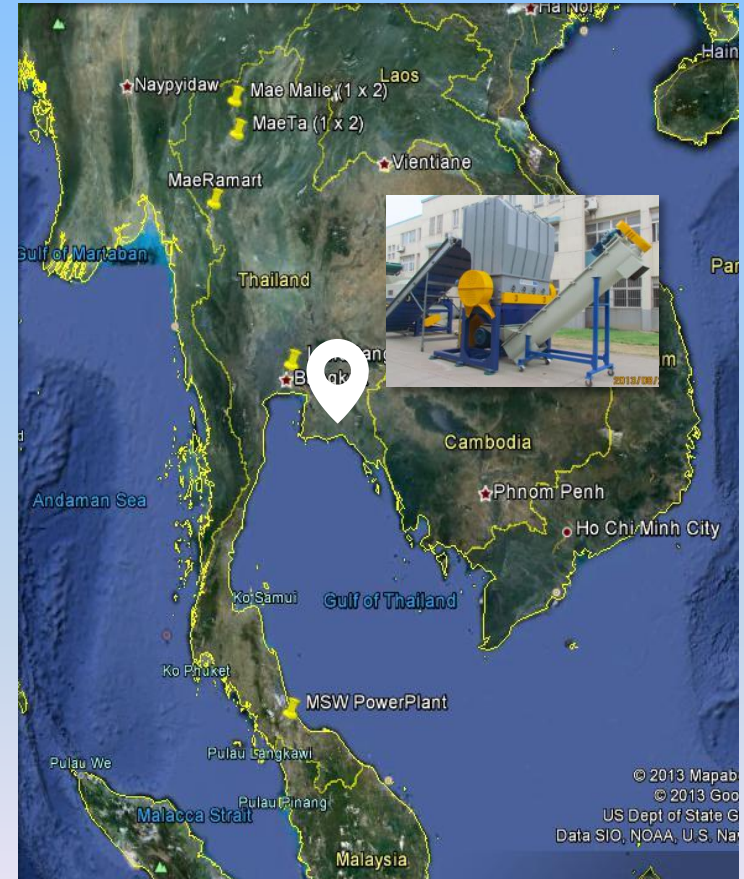
IRR: 18% p.a.

Land: 24 rais



Project Progress

- Under construction
- Expected to start commercial operation in September 2015 (first 100 tons/day capacity)





Under Construction Projects

Hat Yai Waste Plastic Recycling

Project Description

Location: Hat Yai, Songkla

Shareholder: IEC 100%

Installed Capacity: 100 tons per day

Production: Plastic Pellet (PE)

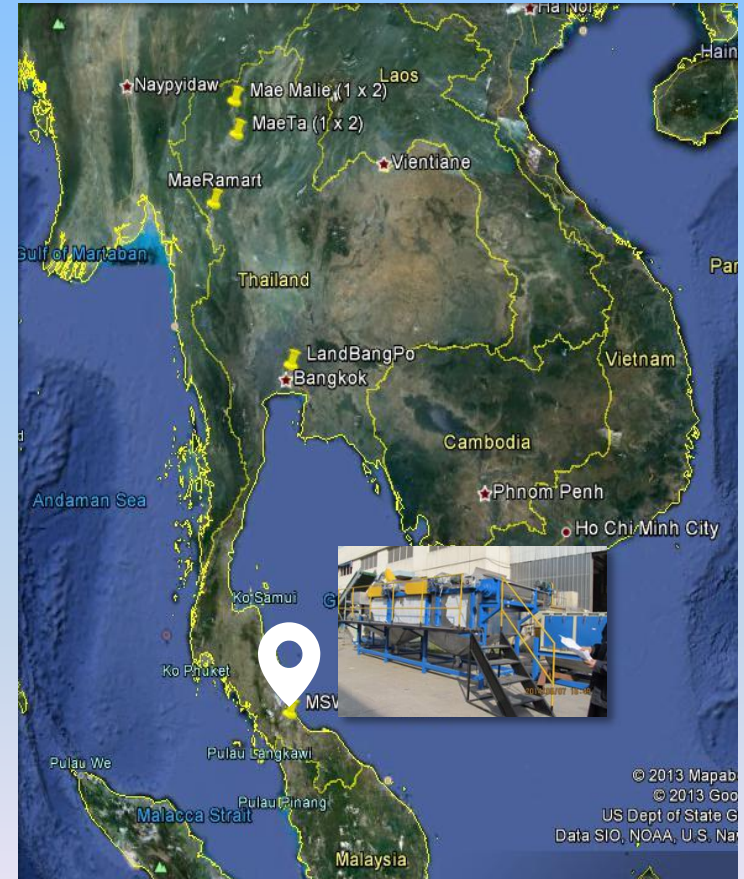
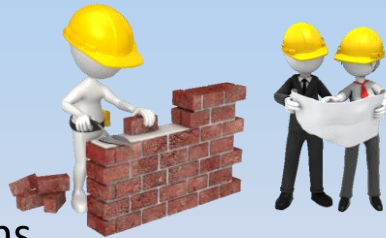
Investment: approx.157 millions Baht

IRR: 19% p.a.

Land: 20 rais

Project Progress

- Under constructions
- Expected to start commercial operation in January 2016





Under Development Projects

The Second Biomass Power Plant Project

Project Description

Location: Muang, Sakaeo

Shareholder: IEC 100%

Capacity: 8 MW

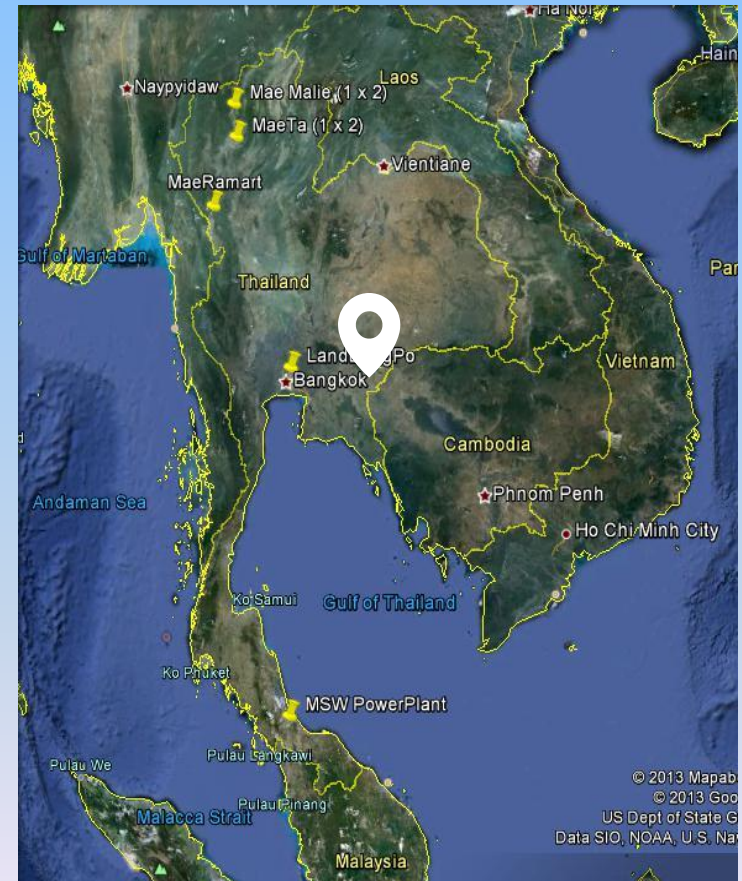
Adder: n.a.

Expected SCOD: Q2/2017

Land: 16 rais

Project Progress

- Pending PPA granted by PEA





Under Development Projects

Kampangpet Biogas Power Plant

Project Description

Location: Muang, Kampangpet

Shareholder: IEC 100%

Capacity: 6 MW

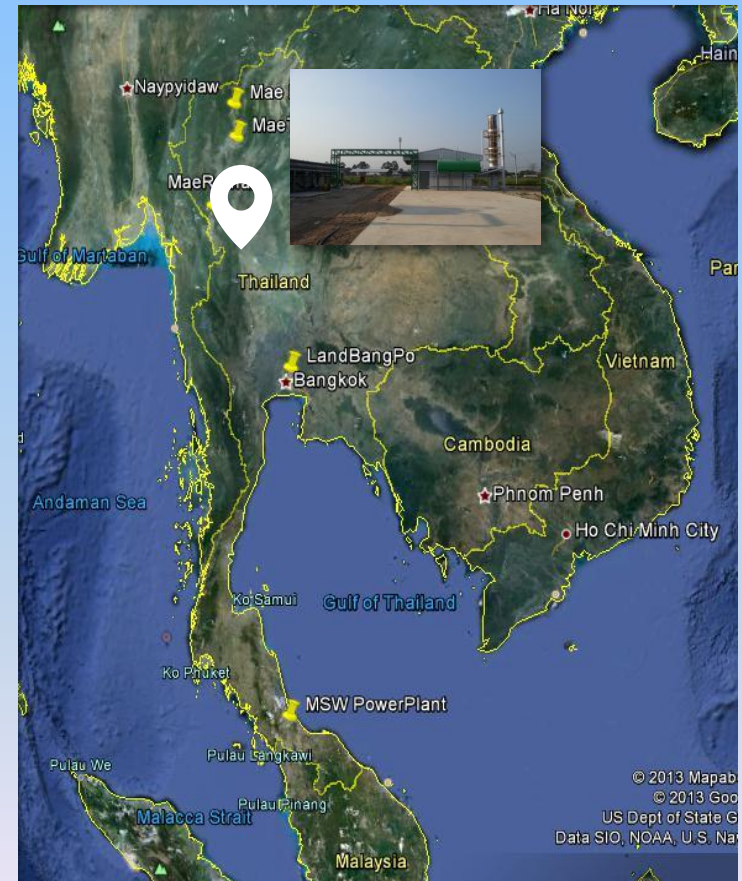
Expected SCOD: 2017

Feedstock: Sugar cane and molasses

Land: 40 rais

Project Progress

- Waiting regulator to call for PPA bidding



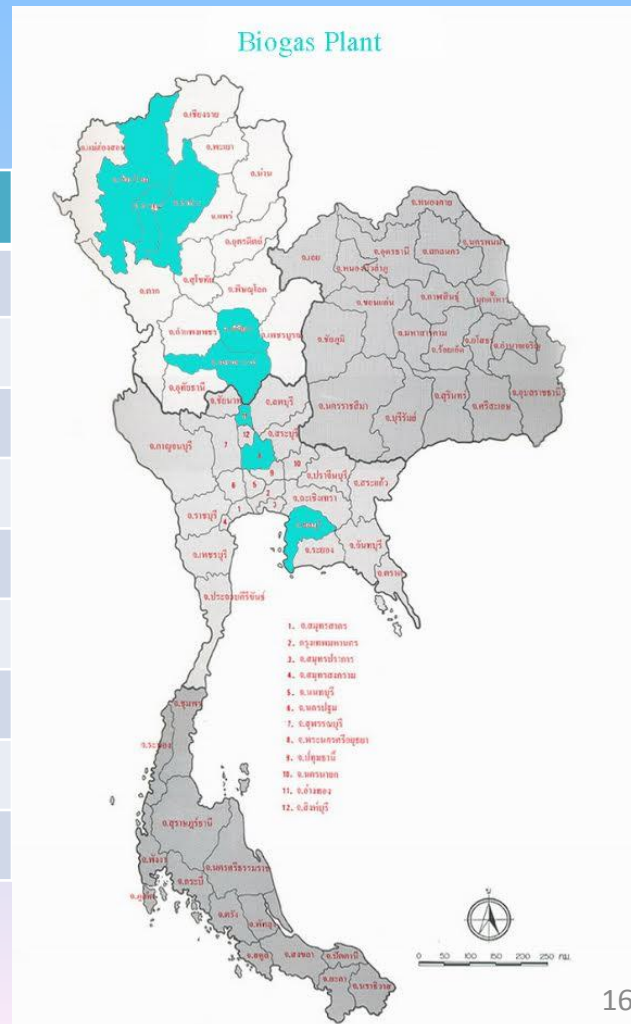


Strategic Roadmap Update

Under Development Projects

Biogas (CBG)

Province	MW	Province	CH4 (Kg/Day)
Kampaengphet	6	Chiang Mai	24,844
Suphanburi	4	Lampoon	24,844
Total	10	Lampang	24,844
		Nakhornsawan	24,844
		Pichit	24,844
		Ayutthaya	24,844
		Ang Thong	124,220
		Chon Buri	49,688
		Total	322,972



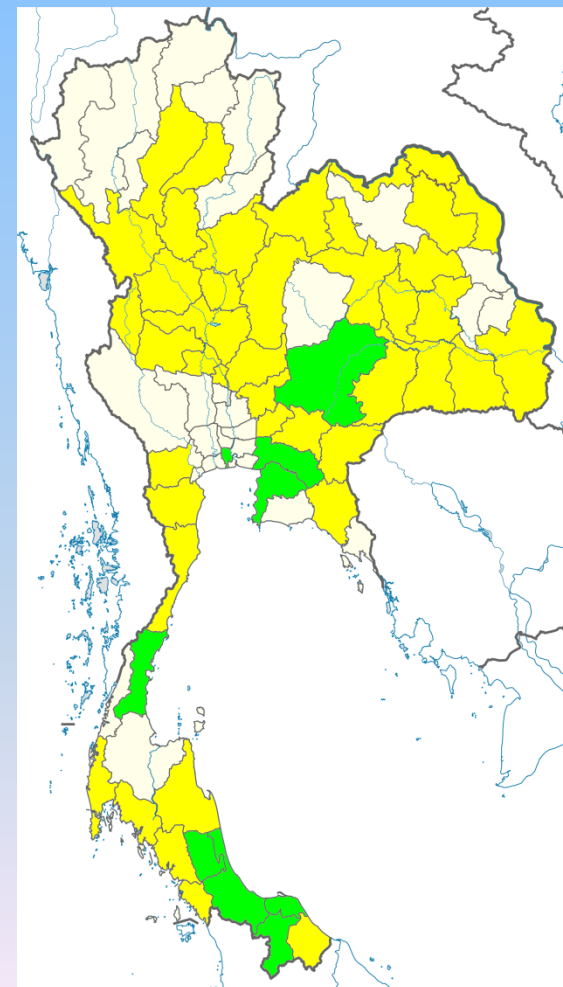


Strategic Roadmap Update

Under Development Projects

Gasifier and Bio-dry Plants

ภาคเหนือ	ปริมาณขยะสะสม (ตัน)	ปริมาณขยะที่เกิดขึ้นต่อปี (ตัน)	ภาคกลาง	ปริมาณขยะสะสม (ตัน)	ปริมาณขยะที่เกิดขึ้นต่อปี (ตัน)
อุทัยธานี	115,501	4,293	อ่างทอง	98,551	102,228
แพร่	159,844	5,727	นครนายก	134,834	91,958
อุดรดิตถ์	170,630	23,218	สุพรรณบุรี	144,923	315,437
พิจิตร	197,986	36,957	สระบุรี	191,156	227,875
สโขทัย	210,195	93,606	เพชรบูรณ์	206,863	361,301
ตาก	245,142	126,196	ชัยนาท	226,765	131,791
กำแพงเพชร	259,756	10,940	ลพบุรี	356,608	290,174
ลำปาง	307,629	70,206	ประจวบคีรีขันธ์	440,792	215,953
พิษณุโลก	316,605	10,636	ราชบุรี	464,064	306,756
นครสวรรค์	404,318	27,590	ปราจีนบุรี	552,679	159,665
ภาคตะวันออกเฉียงเหนือ	ปริมาณขยะสะสม (ตัน)	ปริมาณขยะที่เกิดขึ้นต่อปี (ตัน)	เพชรบุรี	682,938	193,669
สระแก้ว	191,534	92,320	สมุทรปราการ	2,001,960	739,231
จันทบุรี	215,450	80,475	ภาคตะวันออกเฉียงเหนือ	ปริมาณขยะสะสม (ตัน)	ปริมาณขยะที่เกิดขึ้นต่อปี (ตัน)
ฉะเชิงเทรา	305,066	655,033	บึงกาฬ	124,595	12,446
ชลบุรี (รวม เมืองพัทยา)	875,191	591,386	หนองบัวลำภู	875,191	36,025
ภาคใต้	ปริมาณขยะสะสม (ตัน)	ปริมาณขยะที่เกิดขึ้นต่อปี (ตัน)	หนองคาย	181,823	17,237
สตูล	109,744	24,894	เลย	210,601	11,910
พังงา	116,417	179,363	นครพนม	234,072	51,589
ชุมพร	135,083	116,491	มหาสารคาม	326,130	92,843
พัทลุง	189,099	35,377	ร้อยเอ็ด	333,300	217,656
ปัตตานี	197,591	11,964	กาฬสินธุ์	349,172	56,600
กระบี่	201,244	245,820	ชัยภูมิ	391,308	64,966
นราธิวาส	230,266	31,809	สกลนคร	393,370	24,774
ภูเก็ต	260,420	-	อุบลราชธานี	433,798	106,066
ตรัง	261,358	212,719	สุรินทร์	476,096	50,219
ยะลา	268,553	46,645	ศรีสะเกษ	496,490	117,784
นครศรีธรรมราช	395,945	1,047,358	บุรีรัมย์	566,988	58,324
สงขลา	585,451	100,945	นครราชสีมา	826,451	760,825





Strategic Roadmap Update

Under Development Projects

Plastic Recycling and Pelleting Systems

Province	Accumulated waste (tons)	Waste (tons per day)
Samut Prakan	2,001,960	739,231
Nakonratchasima	826,451	760,825
Chachoengsao	305,066	655,033
Chon Buri	875,191	591,389
Chumphon	135,083	116,491
Pattalung	189,099	35,377
Pattani	197,591	11,964
Yala	268,553	46,645
Total	4,798,994	2,956,955

Plastic Recycling and Pelleting Systems





Strategic Roadmap Update

Under Development Projects

MSW Power Plants

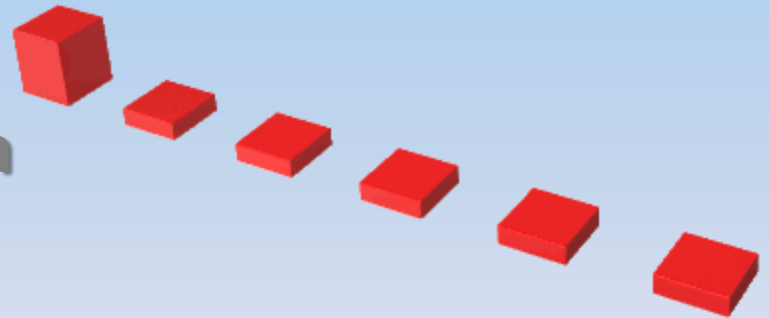
Location	MW	Tons/day
Pattalung	3	200
Pattani	3	200
Krabi	3	200
Ban Bueng (Cholburi)	4	400
Total	13	1,000





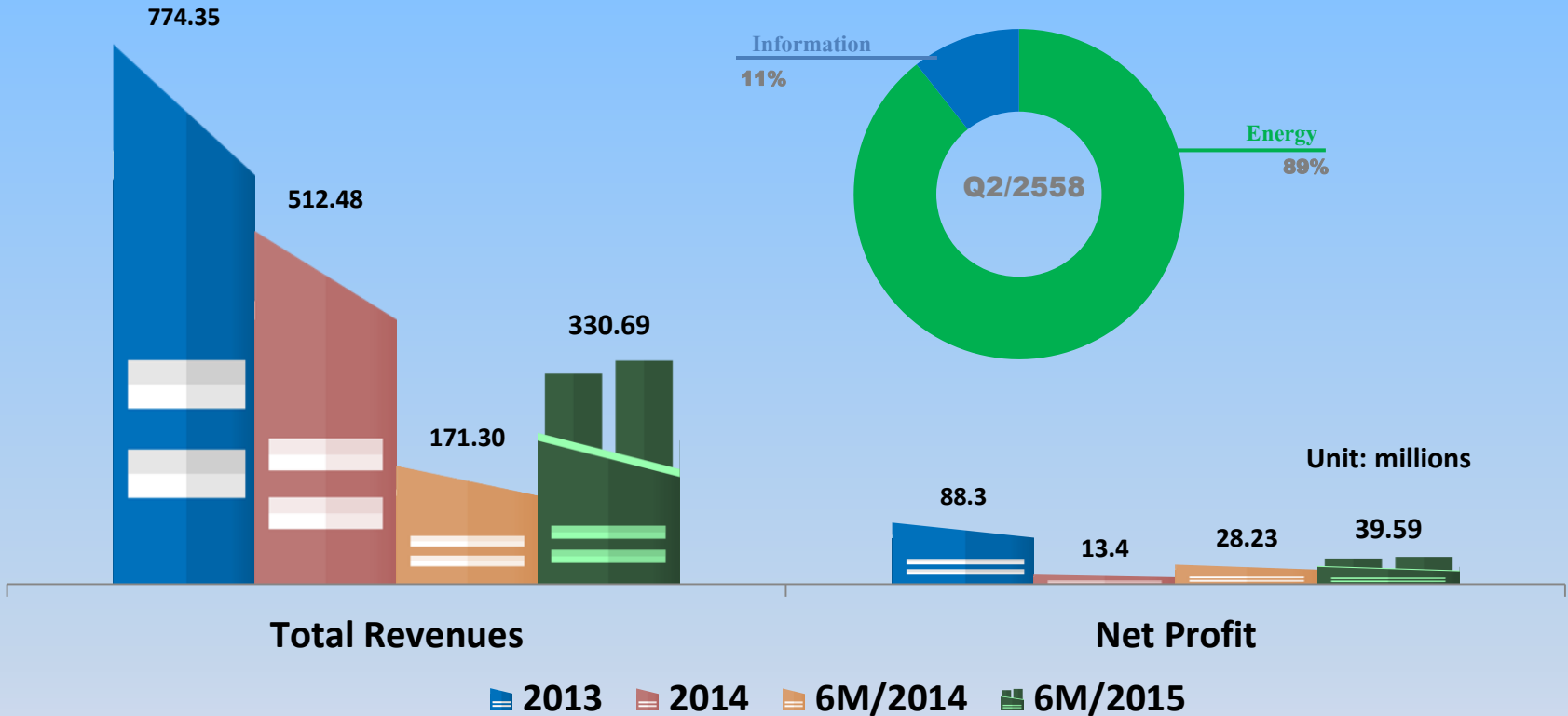
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Financial Performance

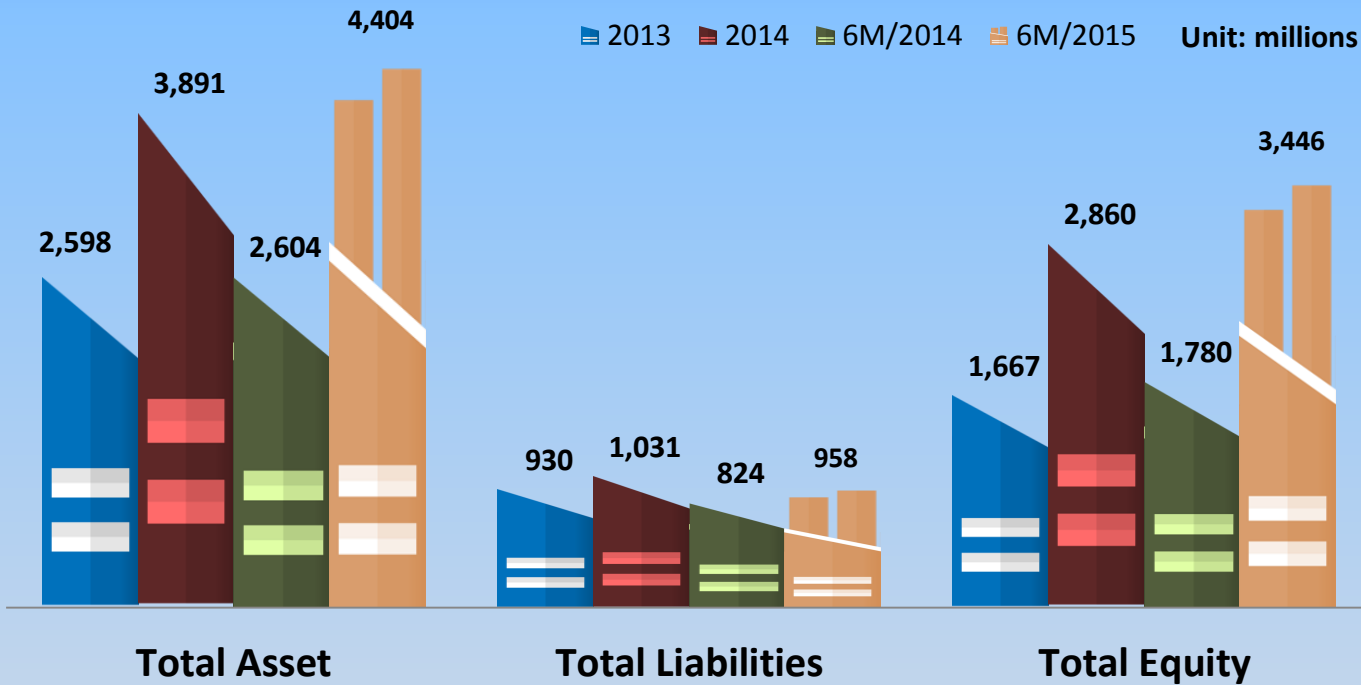


Note: In 2013, there was 316.36 millions Baht income from debt restructuring of Ethanol project.

Ratio	2013	2014	6M/2014	6M/2015
Net Profit (%)	11.40	2.62	16.48	11.97
EBITDA (%)	15.13	9.81	24.43	28.79



Financial Performance



Financial Ratio	2013	2014	6M/2014	6M/2015
Current Ratio (times)	1.15	1.9	0.8	1.88
ROA (%)	5.09	0.00	1.08	0.90
ROE (%)	11.45	0.65	1.74	1.22
D/E Ratio (times)	0.62	0.39	0.51	0.29



Highlights

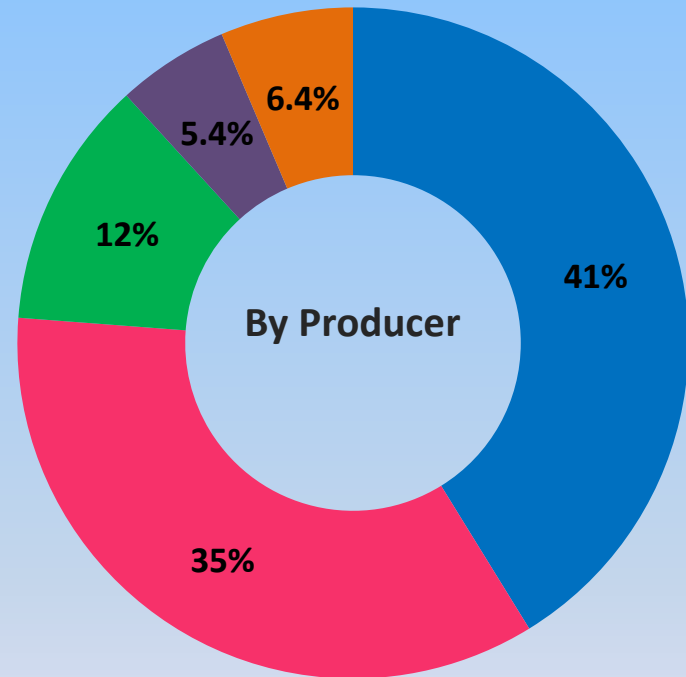
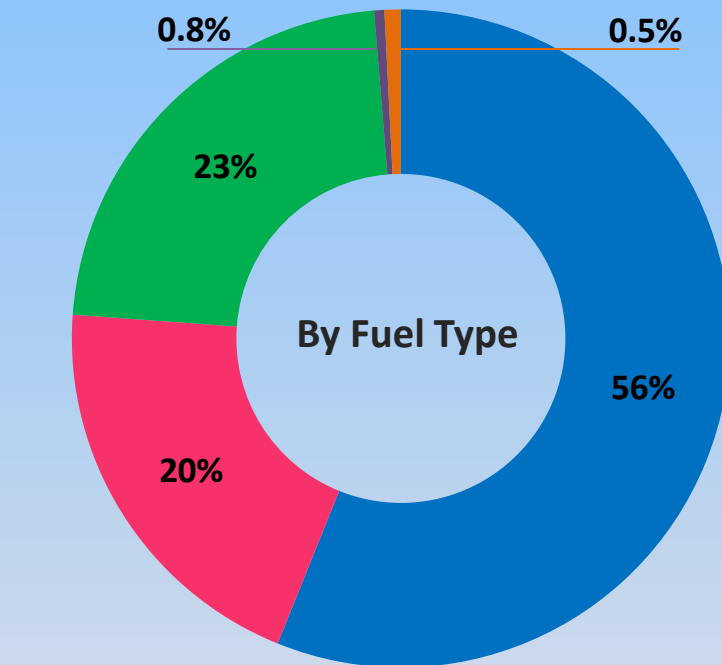
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Market Outlook & Conclusion

Thailand's Power Industry (PDP 2015)



■ Cogeneration ■ Heat ■ Renewable
■ Gas Turbine ■ Thai-Malaysian line

■ EGAT ■ IPP ■ SPP ■ VSP ■ Import

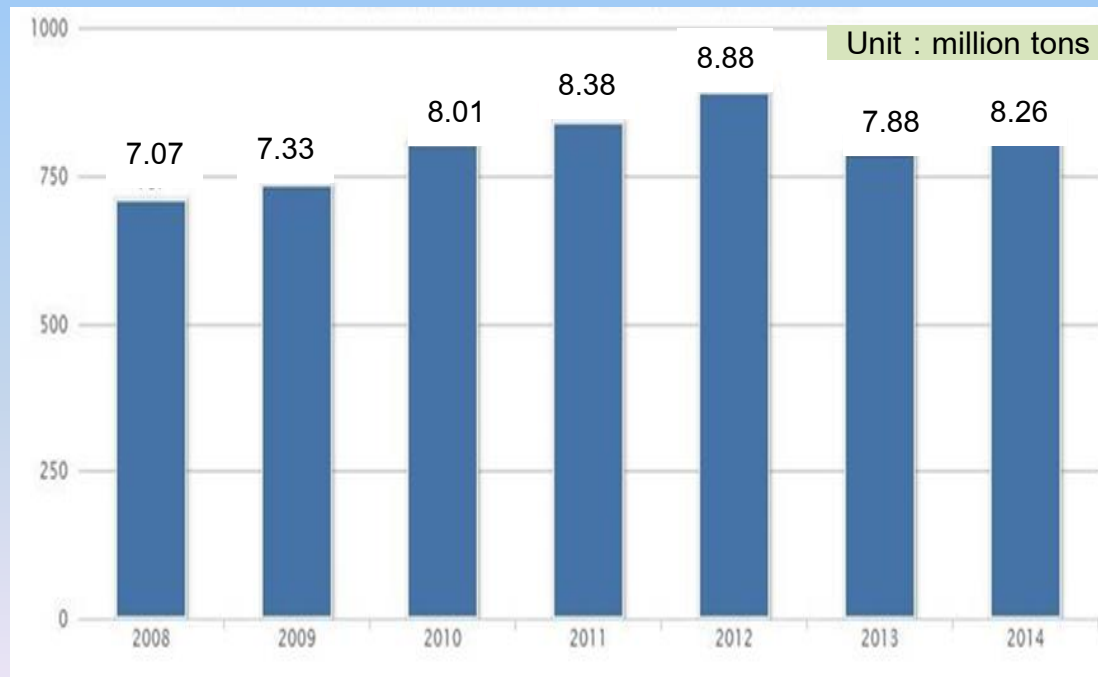
As of December 2014, Thailand's power generation was 37,612 MW.



China's Waste Plastic Market

A research from “China Recycled Plastic Industry Data Statistic Analysis Report” by China Recycle Plastic Association

Waste Plastic (PE) Import 2008-2014



**Waste plastic
Import prediction
between 2015-2020
= 8.75 million tons**



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THANK YOU

The International Engineering PCL

Tel. +662 6190199

Fax. +662 6190019