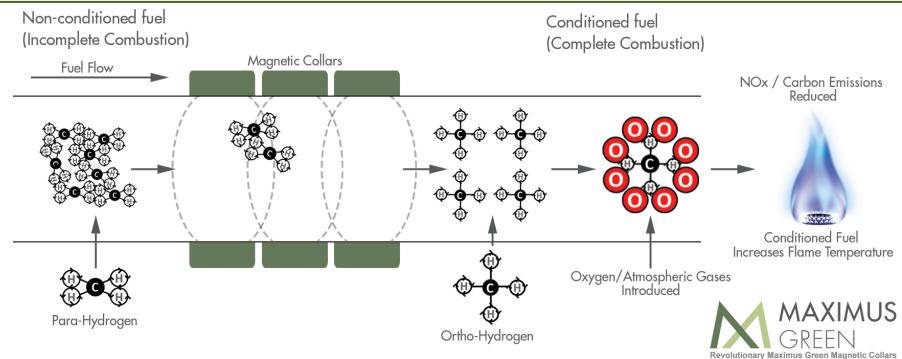
# Cut Your Fuel Consumption: Heating Costs and Emissions



# **PRODUCT INTRODUCTION**



# eeMGee - Cut Your Fuel Consumption: Heating Costs and Emissions



Conventional fuel contains molecules that are attracted to each other in large clusters known as associations; being charged positively and negatively at random.

As fuel travels along the fuel line it passes through the powerful magnetic field.

The hydrocarbon molecules in the fuel become positively charged and repel each other.

This breaks the hydrocarbon clusters wide open, allowing oxygen molecules greater access to them for improved combustion.





# eeMGee - Cut Your Fuel Consumption: Heating Costs and Emissions



Reducing Environmental Impacts with added Economic Benefit

# Maximus Green eeMGee creates:

- A rise in flame temperature of up to 120<sup>o</sup>
- This means that the water in a boiler reaches target temperature sooner, reducing lead time
- Less fuel is burnt reaching the target temperature reducing cost and carbon spend
- The burner's "burning time" is reduced, which lowers maintenance costs
- The heat exchange plate is slightly hotter so the circulating water is hotter on some systems which means thermostats can be lowered
- Fewer emissions for the same volume of fuel consumed
- Works on gas, oil, LPG and Diesel



16.5%

Average Customer Savings





Reducing Environmental Impacts with added Economic Benefit



Saving Thousands for;

-Hotels and Leisure Centres
-Education Establishments
-Healthcare | NHS
-Government & Councils
-Commercial Buildings
-Industrial & Manufacturing









Reducing Environmental Impacts with added Economic Benefit

# Selected European Customers with Case Studies







The Royal Orthopaedic Hospital NHS Foundation Trust





The Royal Orthopaedic Hospital NHS NHS Foundation Trust

The Royal Orthopaedic Hospital NHS Foundation Trust is one of the largest specialist orthopaedic units in Europe. We offer planned orthopaedic surgery to people locally, nationally and internationally. When you choose The Royal Orthopaedic Hospital you're choosing the very best treatment from an award winning team who will put you at the centre of your care.

The Royal Orthopaedic Hospital located in Birmingham boasts a large site where we the estates team pioneer technology ahead of other trusts to reduce costs and create a greener environment for the nation's health. Because of this we looked for pioneering technology to directly reduce our energy usage using Maximus Green Limited's expertise. Since the implementation of Maximus Green's technology on the boiler systems at one boiler house, The Royal Orthopaedic Hospital NHS Foundation Trust has reduced its overall gas consumption for one department by more than 20% where fitted. This is generating expected annual savings of £7,932 at 2015 cost levels. This means a return of investment of 1 year and 10 months. Reducing our gas consumption by 20.92% has had an added green benefit by reducing CO Emissions being released into our atmosphere by 44.90 tonnes per annum. We are extremely pleased with a result of 20.92% usage saving and are currently looking at other sites to implement the technology across the Trust. We are very pleased with the fuel

saving along with the reduction in emissions advancing The Royal Orthopaedic Hospital NHS

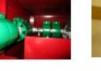
David Cooke Estates Manager 8<sup>th</sup> September 2016

MAXIMUS

Foundation Trust is closer to achieving their targets.









6





Projected Savings Over a Ten Year Period Based on a 2.5% Rise in Cost per

Year for Gas

# NELFT NHS

Carbon Saved

(tonnes)

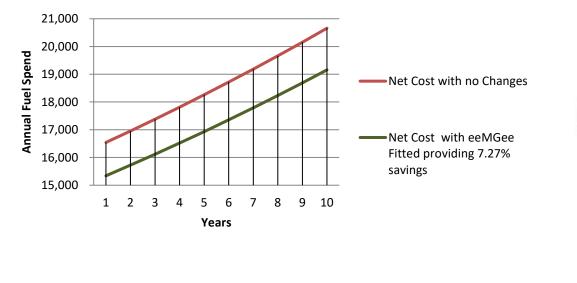
9.49

# NHS Foundation Trust

Gas/Oil

Saved (%)

7.27%





The Corringham Centre had a spend of £16,542pa



7

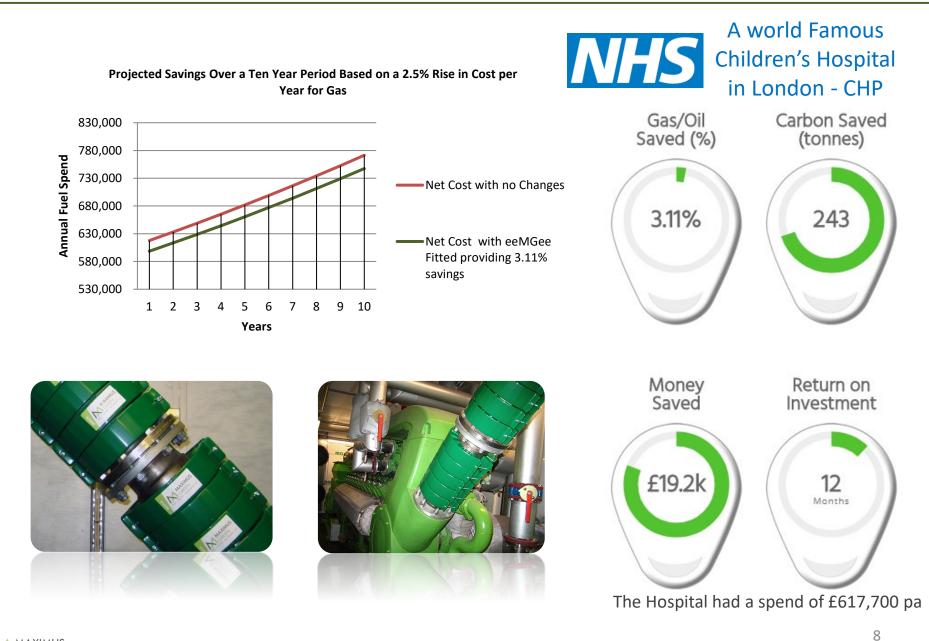
Fuel Conditioned - Gas

South West Free

Mayflower

Community Hospital







Fuel Conditioned - Gas

GREEN



#### Grammar School for Boys

Canterbury, Kent CT4 7AS

Tel: 01227 463567 Fax: 01227 456486 email: office@th website: www.th

office@thelangton.kent.sch.uk www.thelangton.kent.sch.uk Headteache Dr M N F Baxte

We are extremely pleased with the results of 23.34% and 13.66% savings on our oil and gas costs at Simon Langton Grammar School for Boys" Mr Julian Hunt – Bursar

Simon Langton Grammar School For Boys

SIMON LANGTON Grammar School for Boys



Simon Langton Grammar School for Boys is located in Canterbury, Kent and is extremely experienced in producing high achieving and well rounded individuals ready to take on roles as the leaders of their generation. It is also a formidable science school and has a science department that is leading the country in both its teaching and academic research.

Since the implementation of Maximus Green's technology on the boiler systems, The Langton has reduced its overall oil consumption by more than 22% and overall gas consumption by more than 13%. This is generating expected annual savings of £9,154 at 2015 cost levels. This means a return of investment of less than 18 months. Reducing our fuel consumption has had an added green benefit by reducing CO Emissions being released into our atmosphere by 72.27 tonnes per annum.

We are extremely pleased with the results of 22.32% and 13.66% cost saving on our oil and gas costs, as well as the reduction in emissions into the environment.

We look forward to working with Maximus Green Limited on further projects.

Julian Hunt Bursar August 2016





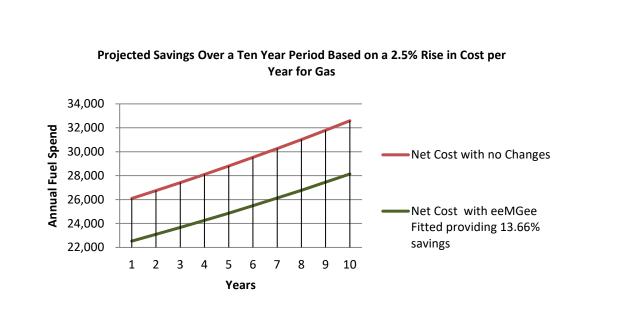




#### Fuel Conditioned - Gas



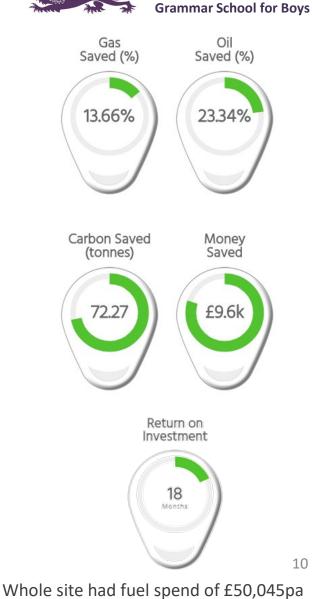
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"We are extremely pleased with the results of 23.34% and 13.66% savings on our oil and gas costs at Simon Langton School" Mr Julian Hunt – Bursar

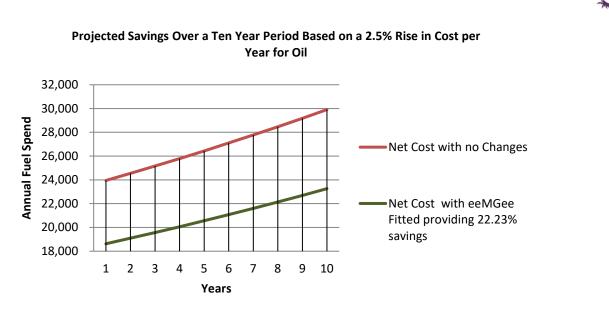


**SIMON LANGTON** 

MAXIMUS GREEN

Fuel Conditioned - Gas

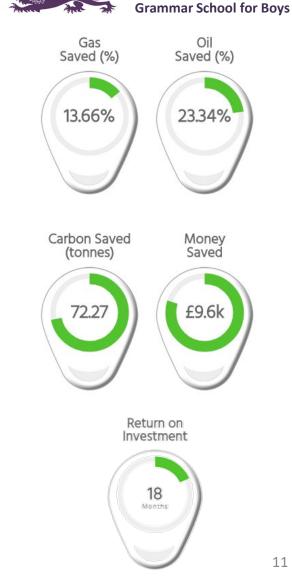








"We are extremely pleased with the results of 23.34% and 13.66% savings on our oil and gas costs at Simon Langton School" Mr Julian Hunt – Bursar



**SIMON LANGTON** 

Whole site had fuel spend of £50,045pa

GREEN

Fuel Conditioned - Oil



1 Belle Vue Square Broughton Road SKIPTON North Yorkshire BD23 1FJ



Telephone: 01756 693929

	Month	Dates	Consumption (kWh)	HDD	20 Yr Ave	Normalised Data	Normalised increase / decrease	% age movement	Savings through use of Maximus Green Products
	1	June - 2016	19,215	84	73	16,699	(6,238)	(27.20%)	
	1	June - 2015	20,737	66	73	22,936	(0,238)	(27.20%)	
	2	July - 2016	19,766	61	42	13,609	(1.015)	(6.94%)	18.53%
	2	July - 2015	18,803	54	42	14,625	(1,015)	(0.94%)	10.00/0
I	3	August - 2016	19,121	43	39	17,342	(3,582)	(17.12)%	
	,	August - 2015	18,242	34	39	20,925	(3,362)	(17.12)%	

16/10/17

To whom it may concern

Reference: Maximus Green - Magnetic Fuel Conditioner

Initially, I was very skeptical about installing the Magnetic Fuel Conditioner on our boilers and Combined Heat and Power unit gas supplies. But based on performance it looks like we'll be saving over 18% on our gas consumption.

Saving us both environmentally and financially, Maximus Green have certainly helped us to achieve our 'A' star rating on our DEC certificate. For a leisure centre with swimming pools, this is almost unheard of.

They are professional and helpful and I would certainly recommend them to anyone else thinking of installing this technology on their heating system.

Yours sincerely

Lloyd Hancox Leisure Services Manager Craven District Council







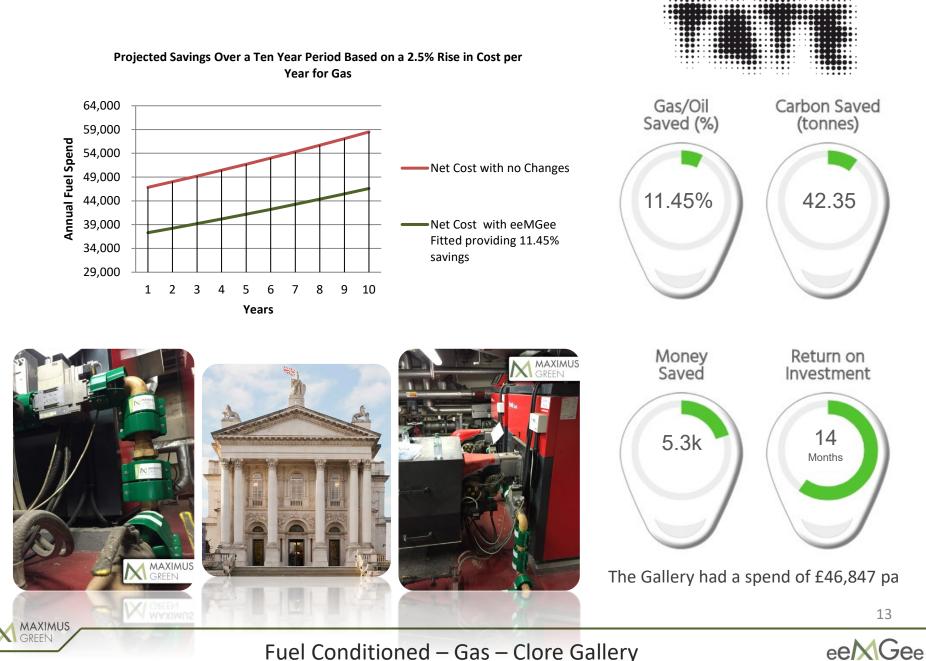


Paul Shevlin, Chief Executive Calls may be recorded for training and monitoring purposes For general enquiries telephone 01756 700600 www.cravendc.gov.uk



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Fuel Conditioned – Gas – Clore Gallery



Fuel Conditioned - Gas





Reducing Environmental Impacts with added Economic Benefit

# Selected Customers in USA & Canada with Testimonial Letters





# GREEN



Ohio Agricultural Research and Development Center Facilities Services 1680 Madison Avenue Wooster, OH 44691-4096

Phone 330-263-3915 Fax 330-263-3620

Green Energy Technologies Inc George Prior 2645 Royal Windsor Dr Mississauga, Ontario Canada L5J 1K9

#### Dear George

This is a letter confirming that we have received the summary of the cost savings of the magnet technology that you have installed on our gas boiler here at the Ohio State University/O.A.R.D.C. here in Wooster, Ohio.

It looks like it has bad substantial savings on our system with your figures of a %31.1 cost reduction. This has been a very acceptable technology and practice. We may have to take a serious look at having this system installed permanently. Thank you for your time in this installation that you have contributed so far.

Ron Hinnikon Maintenance Superviser OSU/OARDC 1680 Madison Ave Wooster, Ohio 44691



6970 Financial Dr. Mississauga, ON L5N 8J4 (905)567-8172

Green Energy™ Technologies Inc 2320 Bristol Circle Unit 1 Oakville, Ontario L6H 5S3 October 15th, 2010

Attention: Mr. George Prior - President

Dear George,

This letter confirms that we have installed the *GET GREEN®* System at both our St. Catharines and Mississauga locations.

I have been monitoring the fuel bills and have realized an average decrease in fuel consumption of 12% since its application. These savings have allowed the *GET GREEN*® System to pay for itself in just over one year. In addition to the savings, we have also gained peace of mind knowing that the *GET GREEN*® System has significantly lowered our CO emissions.

We are proud to be a member of the GET GREEN<sup>®</sup> Team and would highly recommend the GET GREEN<sup>®</sup> System to all the Swiss Chalet franchises across Canada.

Sincerely Rino Vetrone

Owner and General Manager

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#### TRADITIONAL AIR SYSTEMS INC.

247 Carrier Drive, Unit # 2, Toronto, Ontario M9W 5Y9 Office: (416) 748-0170 Fax: (416) 744-3151 Website: www.traditionalair.com Email: tasi@traditionalair.com

May.20, 2009

Genpak LP

3185 Pepper Mill Court Mississauga, Ontario L5L 4X3

Attention: Mr. Roosevelt Austin - Director of Operations Canada

Re: Combustion Test at 3185 Pepper Mill Ct. Mississauga

#### Dear Roosevelt,

A test was conducted at the above facility today May 20, 2009. According to the result that was prepared by Miura Boilers on a Bacharach Inc. Combustion Analyser on April 24, 2009 the combustion efficiency prior to the collars being installed was 76.8%. The collars were installed after this test on April 24, 2009. Today's test result was conducted by our certified technician Dzenan Kurt (G.3 Certificate #: 00754892) and showed a combustion efficiency of 86.1%. The unit efficiency has increased by 9.3% from 76.8% to 86.1% after gas collars were installed.

Yours truly,

Giulio DiTommaso President

cc. Gordon Kaitting - Green Energy Technologies Inc.



AIRTEK 1115 CRESTLAWN DR. AIR CONDITIONING MECHANICAL UNIT # C2 HEATING SYSTEMS INC. MISSISSAUGA, ON REFRIGERATION L4W 1A7 VENTILATION Tel: 905-602-0445 SALES AND SERVICE Fax: 905-602-0446 INSTALLATIONS Toll Free:1-800-741-9373 April 28, 2010 Attn: Mr. Gordon Kaitting Green Energy Technologies Inc. 2645 Royal Windsor Drive, Mississauga, Ontario SUBJECT: Natural Gas Consumption After our extensive testing and recording before and after the Green Energy Magnet system was installed, the following was concluded, based on natural gas consumption and temperature rise. We experienced a substantial decline in gas consumption, approximately 19.7%, This testing was performed over a range of ambient conditions and calculated based on BTU output We now recognize that this product will save on our natural gas consumption and will now recommend this to all of our Customers.

Sincerely,

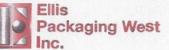
Don Belcher DB/kg

greenenergy2010



17





To whom i	t may concern,
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March 30, 2009

I contracted Green Energy Technologies to install their products on our factory and warehouse gas heaters in November 2008. The installation was seamless and executed with virtually no disruption to our plant operations.

I am pleased to report that year over year comparisons of 4 winter months realized a net benefit of over 10% in energy savings. This was even more impressive in that about 50% of our gas heaters had been replaced less than a year prior, meaning our units were running at a fairly high level of efficiency overall.

I can highly recommend Green Energy Technologies and am proud to have our customers ask about the "Get Green" Plaque in our lobby.

Yours Truly,

John C. Clarke President Ellis Packaging West Inc.

136 Victoria Rd, S, Gueloh, Ontario N1E 5P6 · Phone (519) 822-7060 · Fax (519) 822-9378



What do our Customers say?

Ellis Group



Attention: Mr. Gordon Kaitting - Vice-President Sales

Green Energy Technologies Inc.

2645 Royal Windsor Drive

Mississauga, Ontario

Dear Gordon,

LSJ 1K9

This letter confirms that the three Denny's Restaurants located in Mississauga, Whitby and Oakville have installed the GET Green<sup>™</sup> System. We have noticed a significant in reduction in fuel costs and are extremely pleased with the results. We will be recommending this technology to other affiliates.

In addition to our fuel savings, we have also lowered our Carbon Emfssions Footprint. We now feel confident that Denny's has joined the GET GREEN<sup>™</sup> Team in making our environment a better place for now and the future.

Best Regards,

Gurd Subra

Guru Subra Denny's Franchise Owner

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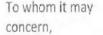




Boston Pizza

BOSTON PIZZĂ OAKVILLE 2011 WINSTON PARK DRIVE OAKVILLE, ONTARIO L6H 6P5

TEL: (905) 829-8370 FAX: (905) 829-8375



July 8, 2008

Please be advised of the completed test that was conducted with Green Energy Technologies Inc. All testing was conducted at our corporate store in Oakville Ontario Canada, we monitored the program over a four month study using the Get Green Technology. We were extremely pleased with the results of a 10.2% fuel savings and are currently recommending the Get Green program to all of our franchises across Canada. We were very pleased with the fuel savings along with the reduction of Carbon Emissions advancing Boston Pizza in the race of lowering emissions into the environment.

Rino Vetrone General Manager

Singste

Best regards

8.18 hours and #17 7.22 hours.

2008-07-30

Dear Gordon:

Mr. Gordon Kaitting Vice President

Green Energy Technologies Inc.

600 ppm) to be fitted with the Fuel Conditioner.

2645 Royal Windsor Drive Mississauga, Ontario L5J 1K9

Rob Simpson Chief Operating Officer JEMS Coating Limited

> 210 Jacob Keffer Parkway, Concord, Ontario L4K 4W3 905-303-7433 www.jemscoating.com

Subject: Fuel Conditioner application to reduce CO output of propane fork trucks

the levels of carbon monoxide exhausted from our propane fueled forklift trucks,

I must admit that I was very skeptical that a couple of magnets would make any difference at all in

A project was undertaken to determine if the Fuel Conditioner product could contribute to reducing the CO output levels of forklift trucks currently in use at JEMS. We identified three trucks, one a control (#16 with1699 hours of use and CO output of 650 ppm) and two (#14 with

4669 hours of use and CO output of 650 ppm and #17 with 454 hours of use and CO output of

After 10 days, we measured the CO output of each truck and found that #14 had dropped to 70 ppm and #17 had dropped to 8 ppm. The control truck, #16 had no change. Additionally we

measured the average number of hours that a 33lb propane cylinder would last during the 10 day trial and found no real difference between the control truck 7.11 hours and the two test trucks #14

We will continue to monitor and keep you informed of the fuel consumption rates and CO output

over time. Additionally we have widened the project to include all of our seven propane forklifts.







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SE Asia – Industrial Testings/Trials



Reducing Environmental Impacts with added Economic Benefit

# South East Asia: Small-Scale Trials/Laboratory Tests (updated as of November 2024)



What do our Customers say?



eeNGee

# Diesel Engine Tests (March 2019: Supervised by Thermal Engineering Center – KMUTT, Thailand)

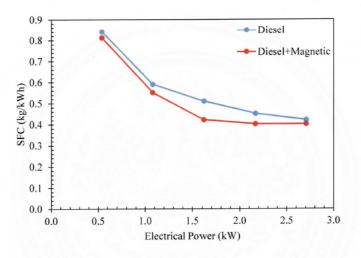


THERMAL ENGINEERING CENTER Engineering Building (Witsawa-Wattana) 8 Floors Building, 8th Floor Tel: +66 2470 9658 Fax: +66 2470 9109

Page 3 of 5

2. Specific Fuel Consumption

Electrical power (kWele)	Diesel	<b>Diesel and Magnetic</b>	Compare (%)
$0.54{\pm}0.005$	0.84±0.071	0.81±0.041	-3.55
$1.08 \pm 0.009$	0.59±0.033	0.55±0.023	-6.07
$1.62 \pm 0.003$	0.51±0.078	$0.42 \pm 0.005$	-17.53
2.17±0.007	0.45±0.017	0.40±0.031	-10.80
2.71±0.002	0.42±0.021	0.40±0.011	-5.67



- Diesel Generator Capacity: 3kWe
- Overall results during the tests show average savings based on certified specific fuel consumption around 6.5%
- Certified specific fuel consumption during 60-80% load shows fuel savings in the range of 10 %



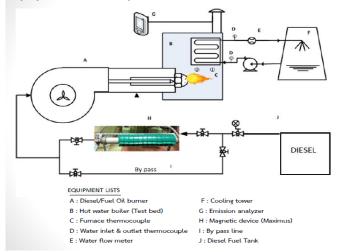






# **300 kW Diesel - Fired Boiler Tests (June 2019**: Supervised by Thermal Engineering Center – KMUTT, Thailand)

Equipment Set-Up for Tests: DIESEL





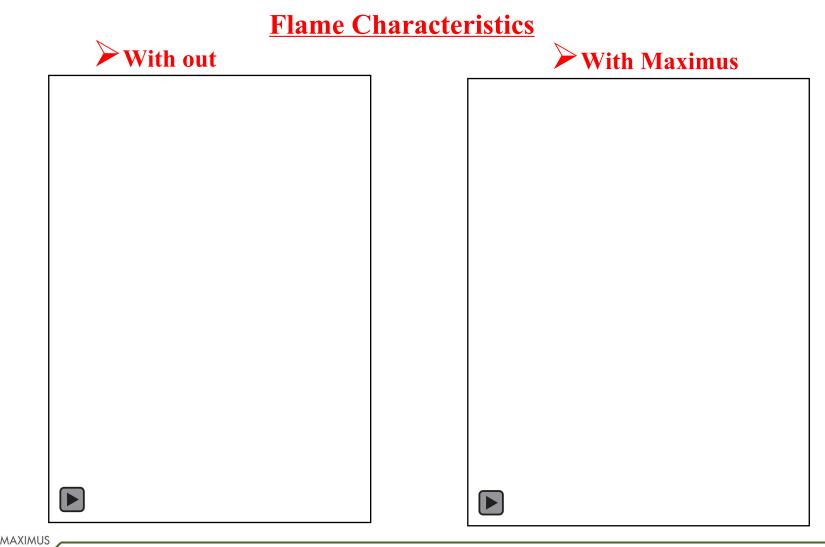
- Burner Max Capacity: 335kW
- Complete results during the tests under low load (150kW) firing rate (10 Barg pressure) showed reduction in Diesel consumption with average results around 6.2%
- The above figures are in line with actual results obtained from European customers highlighted in earlier sections.
- Diesel is expensive fuel and the above results could lead to significant increase in operational profits including great improvement in CO2 emissions plus health & safety



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# 300 kW Diesel - Fired Boiler Tests (June 2019: Supervised by Thermal

Engineering Center – KMUTT, Thailand)





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# **300 kW Diesel-Fired Boiler Tests (**June 2019 Results: Supervised by Thermal

# Engineering Center – KMUTT, Thailand)

# **Emission Performance**

Condition	O <sub>2</sub> (%)			CO (ppm)			No <sub>x</sub> (ppm)			Flue temp (°C)		
	Min	Average	Max	Min	Average	Max	Min	Average	Max	Min	Average	Max
maximus 1	3.82	3.99	4.2	110.2	127.8	131.01	38.65	40.22	42.71	182.01	183.21	184.55
with out 1	3.90	4.55	4.7	88	101.23	165	39.47	40.74	41.62	183.67	184.62	186.27
maximus 2	3.98	4.48	4.63	105.6	113.58	122.2	39.25	40.17	42.33	183.98	184.89	185.93
with out 2	4.01	4.3	4.52	110.8	120.32	133.8	40.01	40.36	41.54	184.00	185.05	186.34

## **Fuel Savings Performance**

HHV diesel, kj/kg	Pressure ,	Time	Mare flow B	Bunne innut Water flow inlat	at mater temp	outlet	Furnace	Furnace	0	со	NO	Flue	Effciency	
mirv desei, kj/kg	burner	Time Mass flow Buner input Water flow inlet water temp				water temp	temp 1	temp 2	02		NO	Temp.	(direct)	
43819	barg	sec	kg/s	kW	m3/h	°c	°C	°c	°C	%	ppm	ppm	°C	%
Maximus 1	10	3600	0.00343	150.29	4.5	28.74	55.05	804.73	727.46	3.99	127.8	40.2	2 183.21	91.47
Without Maximus 1	10	3600	0.00345	151.17	4.5	29.31	54.17	798.46	722.71	4.55	101.23	40.74	4 184.62	85.93
Maximus 2	10	3600	0.00345	151.17	4.5	29.48	55.52	802.31	726.48	4.48	113.58	40.1	7 184.89	90.00
Without Maximus 2	10	3600	0.00344	150.73	4.5	29.60	) 54.34	800.36	723.68	4.3	120.32	40.3	5 185.05	85.76
												4		







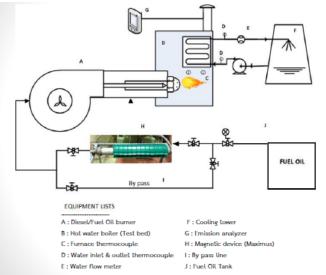
24

eeMGee

Saving = 6.24 %

# 300 kW Fuel Oil - Fired Boiler Tests (July 2019: Supervised by Thermal

Engineering Center – KMUTT, Thailand)





- Burner Max Capacity: 335kW
- Complete results during the tests under 88 kW firing rate (20 Barg pressure) showed reduction in Diesel consumption with average results around 8.7%
- The above figures are in line with actual results obtained from European customers highlighted in earlier sections.
- Diesel is expensive fuel and the above results could lead to significant increase in operational profits including great improvement in CO2 emissions plus health & safety



# 300 kW Fuel Oil - Fired Boiler Tests (July 2019: Supervised by Thermal

Engineering Center – KMUTT, Thailand)

**Flame Characteristics** 









GREEN MAXIMUS

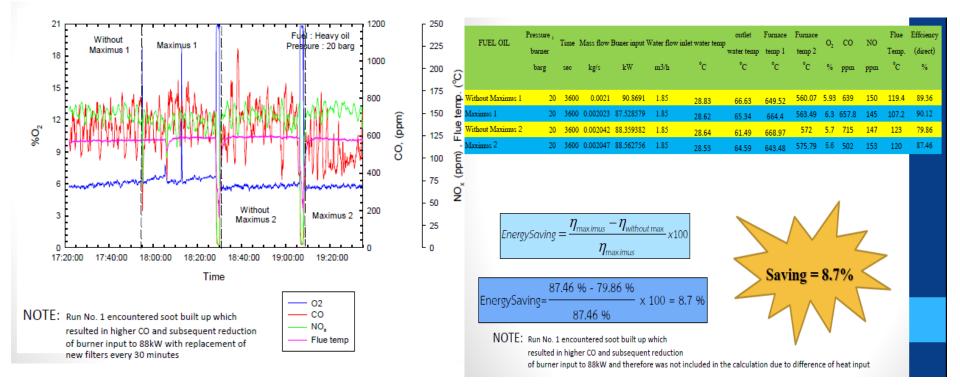
What do our Customers say?

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# **300 kW Fuel Oil - Fired Boiler Tests (**July 2019 Results: Supervised by Thermal Engineering Center – KMUTT, Thailand)

#### **Emission Performance**

# **Fuel Savings Performance**





What do our Customers say?

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# 30 kVA Diesel Generator @ an Indonesian Coal Mine (Aug 2019 Results by

BPPT – a Government Agency for the Assessment of Technology, Indonesia)

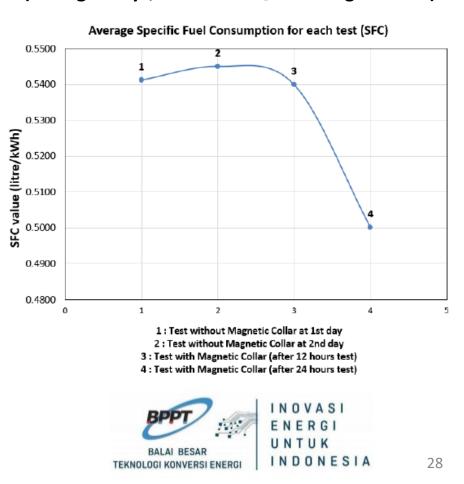




# Brand: ADK Generator Fuel: B20



## **Fuel Savings Performance up to 8.2%** (during 4-days, 24 hr tests @ 30% Engine Load)







Reducing Environmental Impacts with added Economic Benefit

# South East Asia: Major Customers & Trial Results (updated as of March 2025)



# Trial Results @ TOP GLOVE - MALAYSIA (WORLD'S LARGEST GLOVE PRODUCER)

Installation @ Malaysia Head Quarter Operation (Nov 2018)





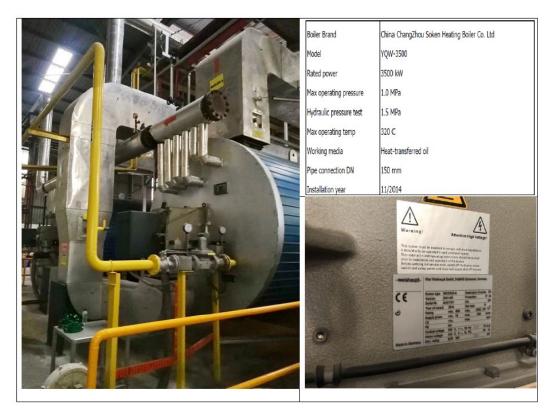




# Trial Results @ TOP GLOVE - MALAYSIA (WORLD'S LARGEST GLOVE PRODUCER)

Installation @ Malaysia Head Quarter Operation (Nov 2018)

# (1) 3MWe Gas-Fired Boiler



# Average reduction in natural gas consumption = 5.9 % @ 80% Load, non-daily use









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# Trial Results @ TOP GLOVE - MALAYSIA

# (WORLD'S LARGEST GLOVE PRODUCER)

Installation @ Malaysia Head Quarter Operation (Nov 2018)

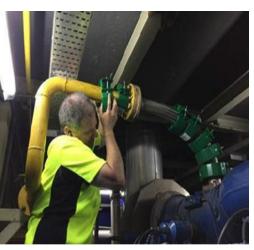
# (2) MWM 1.2 MW (CHP)



MAXIMUS

		TCG 20	20 V12
Engine type		50 Hz	60 Hz
Electrical output	kW	1200	1200
Thermal output ± 8%	kW	1190	1196
Electrical efficiency	%	43.6	43.4
Thermal efficiency	%	43.3	43.2
Total efficiency	%	86.9	86.6
Power to heat ra	1.00	1.00	











# GREEN

Reducing Environmental Impacts with added Economic Benefit





# Summary of Trial Results @ Royal Can Industries



# Royal Can Industries (Thailand) – M6 LPG-Fired Burner (1 MW)

(Installation – 27<sup>th</sup> Nov 2019: by Thermal Engineering Center – KMUTT, Thailand)





MAXIMUS

# **Overall Fuel Savings Performance 4.33 %** (From December 2019 Data)

**Note:** Based on Specific Energy Consumption (Kg/1000 Pass)

OPERATION	SFC	SAVINGS
(1-16th December)	(kg/1000 Pass)	
<b>BASE-LINE</b> (Avg: Sept - Nov 2019)	23.823	4.33%
Trial Results (1-16 Dec 2019)	22.792	1.55 / 0

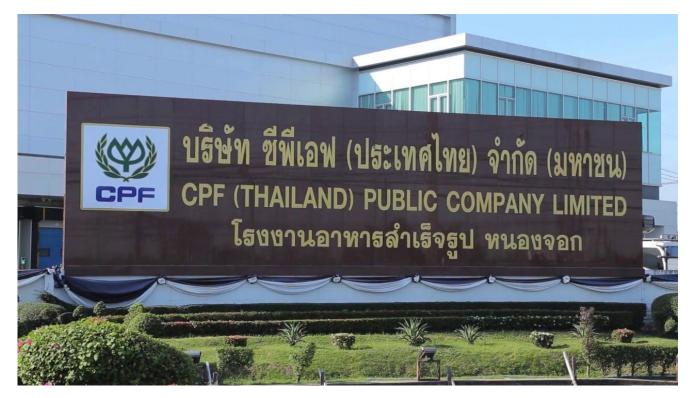




# GREEN



Reducing Environmental Impacts with added Economic Benefit



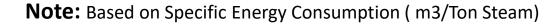
# Summary of Trial Results @ CPF Nongjok



# CPF Nongjok (Thailand) – 8 MW Natural Gas Fired Boiler (New)

(Installation – 12<sup>th</sup> Nov 2019: by Thermal Engineering Center – KMUTT, Thailand)

# **Fuel Savings Performance: Nov = 2.15%**



OPERATION ( Nov - December)	SFC (m3 NG/Ton Steam)	SAVINGS
BASE-LINE (Avg: Sept - Oct 2019)	69.605	
Trial Results (17- 30 Nov)	68.108	2.15%









# GREEN



Reducing Environmental Impacts with added Economic Benefit



#### Summary of Trial Results @ Ampol Food



Fuel: Heavy Fuel Oil (HFO) - C

#### Ampol Food (Sampran, Thailand) – 6.8 TPH Fuel Oil-Fired Boiler

(Sept 2019 Installation: by Thermal Engineering Center – KMUTT, Thailand)



#### **Overall Fuel Savings Performance 9.6 %**

(@ 30% Average Boiler Load Output)

Note: A Back-Up boiler run from 1 – 24 hrs/day

OPERATION	SFC	STDEV	SAVINGS
(September 15 – November 4)	(L/Ton Steam)		
> 5 hrs/day	72.04	+/- 5.8	6.48%
BASE-LINE	77.03	+/- 9	
(Before			
Installation: June 1			
- August 31)			
Overall	72.95	+/- 7.5	9.60%
BASE-LINE	80.70	+/- 16	
(Before			
Installation: June			
1- August 31)			38

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Reducing Environmental Impacts with added Economic Benefit

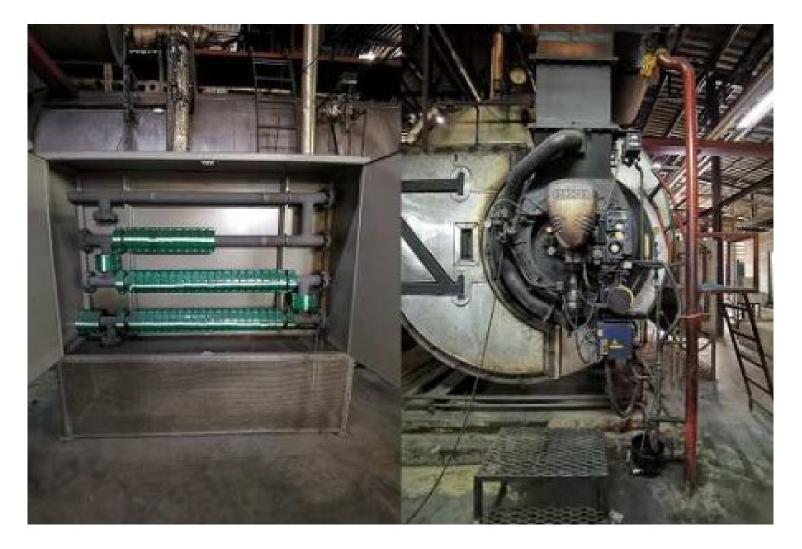


#### Summary of Trial Results @ DEESTONE (Om Noi Factory)



#### Deestone (Om Noi Factory, Thailand) – 15 Ton/hr Fuel-Oil Fired Boiler

(Installation – November 2021: by Thermal Engineering Center – KMUTT, Thailand)

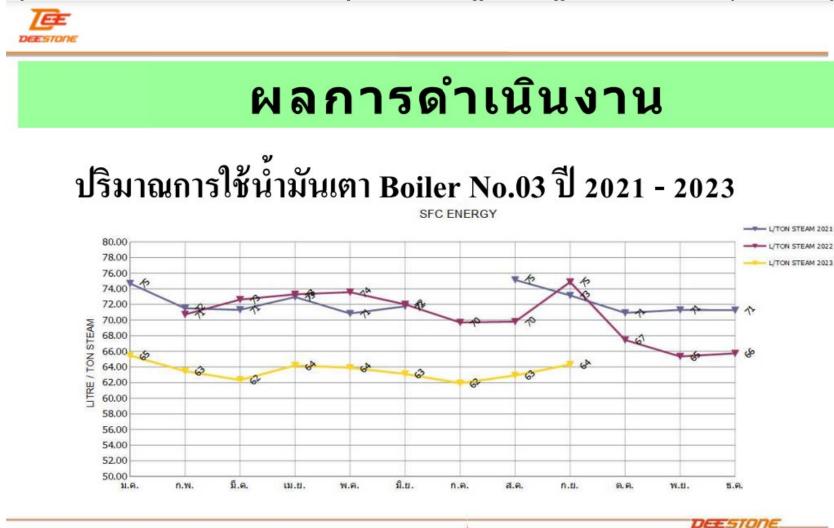






#### Deestone (Om Noi Factory, Thailand) – 15 Ton/hr Fuel-Oil Fired Boiler

(Installation – November 2021: by Thermal Engineering Center – KMUTT, Thailand)



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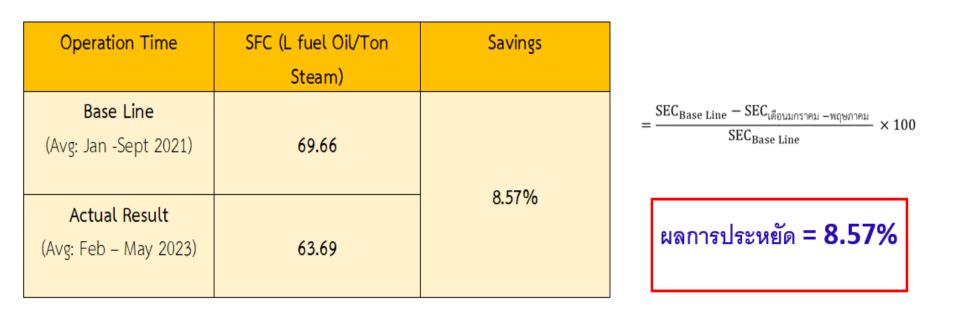
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#### Deestone (Om Noi Factory, Thailand) – 15 Ton/hr Fuel-Oil Fired Boiler

(Installation – November 2021: by Thermal Engineering Center – KMUTT, Thailand)

#### **Overall Fuel Savings Performance over 1 Year Monitoring**

(May 2022 - May 2023)



Note: Based on Specific Energy Consumption (L/Ton Steam) The boiler runs 6 days/week (stop/start every Sunday/Monday)





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### รтате RAILWAY OF THAILAND



Trial with Diesel Generators of a SRT Power Car





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#### SE ASIA – Industrial Testings/Trials

In March 2023, the installation work of Maximus Green Magnetic Collar System equipped with on-board and real-time monitoring systems had been commenced under collaboration with State Railway of Thailand (SRT) at the Power Car No. 8.

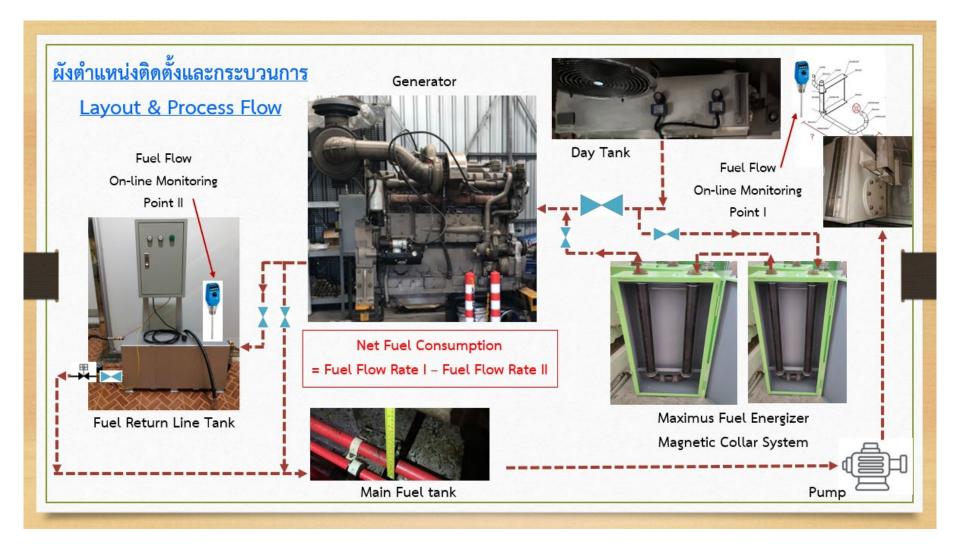
The Maximus Green Magnetic collar system was designed to be used with a diesel engine driving a 400kW generator. the system includes two fuel level measurement points - 1. Day tank and 2. Return line tank.

These points are used to determine the net fuel consumption in comparison to the kW output obtained from the generator, allowing for the measurement of Specific Energy Consumption (L fuel/kWh output). The installation including series of test runs had been completed in mid November 2023.

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The test run of the 400 kW diesel generator of the power car No. 8 of State Railway of Thailand (SRT) using Maximus Green Magnetic Collar System collected via the on- board & real-time monitoring system during 17<sup>th</sup> January – 15<sup>th</sup> August 2024 covering over 100,000 Km (100 trips) have been completed and results from the trip No. 52 – 100 have been summarized in the Table on the right.

As shown in this Table, the overall average Specific Energy Consumption (SEC) value of the total 100 trips (from 17th January – 15<sup>th</sup> August) is 0.486 L/kWh. From comparison with the baseline SEC value of 0.542 L/kWh, it can be calculated that, after implementing the Maximus Green magnetic collar system, there is a significant savings of 10.38 % in diesel fuel consumption!

Data Maximus SEC				Base Line SEC (L/kWh) 0.542	
Frip No.	Trip	Date	kW output	Net Fuel Consumption (L/hr)	Specific Energy Consumption (L/kWh
52	Ubon	6-7May	106.50	51.249	0.481
53	Hatyai	8-9May	101.29	48.993	0.484
54	Ubon	10-11May	107.18	50.997	0.476
55	Hatyai	13-14May	93.67	46.007	0.491
56	Ubon	15-16May	92.42	45.181	0.489
57	Hatyai	17-18May	102.92	49.785	0.484
58	Ubon	19-20May	95.68	41.688	0.436
59	Hatyai	21-22May	97.31	48,776	0.501
60	Ubon	23-24May	84.51	40.482	0.479
61	Hatyai	25-26May	97.98	47.493	0.485
62	Ubon	27-28May	101.30	51.914	0.512
63	Hatyai	28-29May	98.49	47.974	0.487
64	Ubon	30-31May	91.45	46.360	0.507
65	Hatyai	2-33une	86.85	46.015	0.530
66 67	Ubon Hatyai	4-5June 6-7June	108.26	52.480 48.326	0.485
68	Ubon	8-90une	91.16	46.272	0.505
69	Hatyai	10-11June	97.05	46.149	0.476
70	Ubon	12-13June	96.89	48.609	0.502
71	Hatyai	14-15June	105.59	53.372	0.505
72	Ubon	19-20June	91.87	45.995	0.501
73	Hatyai	21-22June	98.43	47.708	0.485
74	Ubon	23-24June	90.15	49.208	0.546
75	Hatyai	25-26June	80.61	40.651	0.504
76	Ubon	27-28June	95.60	46.551	0.487
77	Hatyai	30-1Jul	97.83	48.865	0.500
78	Ubon	2-30di	105.49	50.856	0.482
79	Hatyai	4-5Jul	94.56	45.142	0.477
80	Ubon	6-73ul	103.76	49.187	0.474
81	Hatyai	luce-8	105.21	51.649	0.491
82	Ubon	10-1134	82.69	40.213	0.486
83	Hatyai	12-1304	78.62	38.017	0.484
84	Ubon	14-1504	91.41	47.566	0.520
85	Hatyai	15-1634	89.19	41.175	0.462
86	Ubon	17-18Jul	95.22	43.498	0.457
87	Hatyai	19-200ul	85.98	42.015	0.489
88	Ubon	21-22Jul	90.91	42.774	0.470
89	Hatyai	23-24Jul	88.69	46.391	0.523
90	Ubon	24-25Jul	91.42	46.166	0.505
91	Hatyai	27-283.4	90.91	42.664	0.469
92	Ubon	29-300.4	76.96	41.011	0.533
93	Hatyai	31-1Aug	96.68	47.801	0.494
94	Ubon	2-3Aug	95.17	45.235	0.475
95	Hatyai	4-5Aug	90.74	44.504	0.490
96	Ubon	6-7Aug	89.60	43.875	0.490
97	Hatyai	8-9Aug	106.50	47,440	0.445
98	Ubon	10-11Aug	110.87	52,860	0.477
99	Hatyai	12-13Aug	95.39	45.874	0.481
100	Ubon	14-15Aug	95.39	45.218	0.468
1000	- IIIAau	11-13Mug	97.21	47.100	0.486

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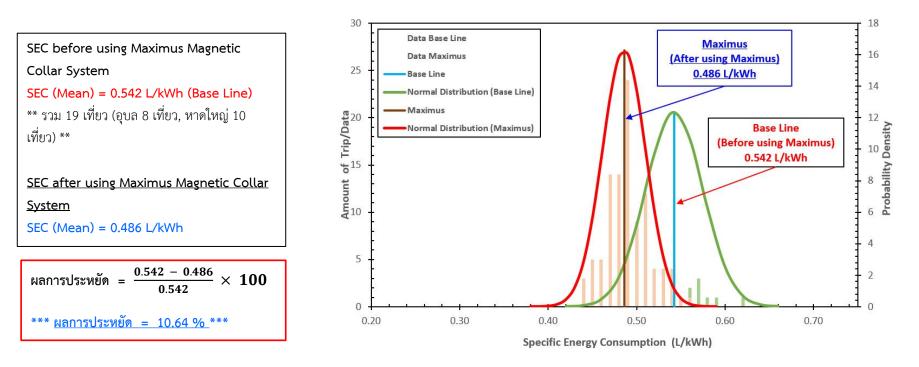


#### SE ASIA – Industrial Testings/Trials

MAXIMUS

To clearly highlight distinguished performance of Maximus Green Magnetic Collar system, a normal distribution curve of Specific Fuel Consumption (SFC) of the total 100 trips (from 17th January – 15<sup>th</sup> August 2024) of Power Car No. 8 of State Railway of Thailand ("Maximus Curve") has been created and plotted in comparison with that of power car No. 8 without using Maximus Green Magnetic Collar system ("Baseline Curve") as shown below.

To affirm the results, State Railway of Thailand (SRT) has already issued a certificate certifying superior fuel saving performance of Maximus Green Magnetic Collar system in early March 2025 – which stands at 10.38% in overall.





Benefits - Cut Your Fuel Consumption: Heating Costs and Emissions



- •Improve your fuel and burn less as a result
- •Reduce your carbon footprint
- Maintenance Free
- •The product requires no electrical supply
- •Boilers do not need to be shut down to fit
- •A long term solution
- •eeMGee remains if you upgrade your systems
- •Take the eeMGee with you if you move site

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Reducing Environmental Impacts with added Economic Benefit

AFRICA

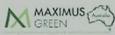
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