





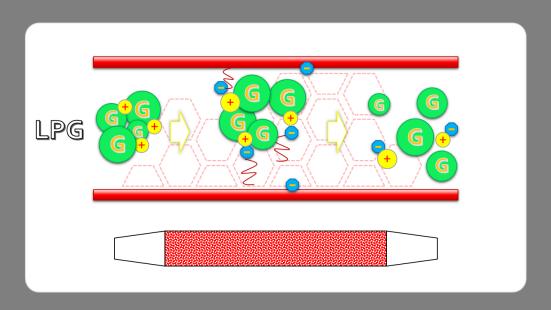
DOS ECO GAS

BETTER PERFORMANCE



PRINCIPLES





Dos Eco Gas is an innovative catalyse filter, made of composite material using LPG molecular rearrangement method, spread dense group of LPG to sparse group, increasing combustion efficiency.



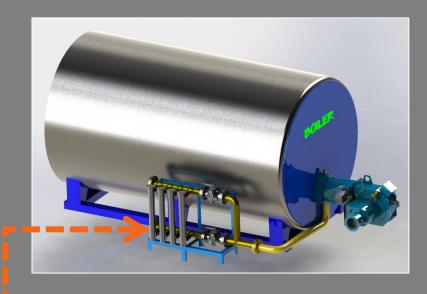
APPLICATION





Compatible with LPG/NG Install next to Burner





variety industrial application which use LPG/NG as heat source such as Boiler, Burner, Industrial Oven and Furnace.

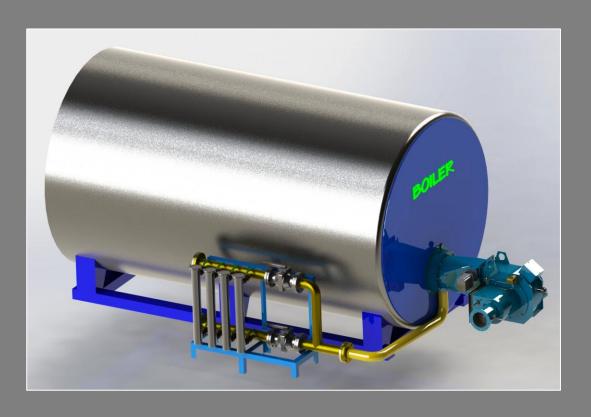


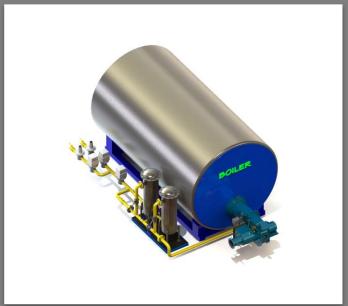


BOILER











ROTARY MOLD









FOOD INDUSTRY













CERAMIC INDUSTRY









STEEL and METAL INDUSTRY











LAUNDRY CENTER BUSINESS











Plastic Rotary Mold at Thammasorn Co., Ltd. Thailand





ENERGY SAVING UP TO 20%



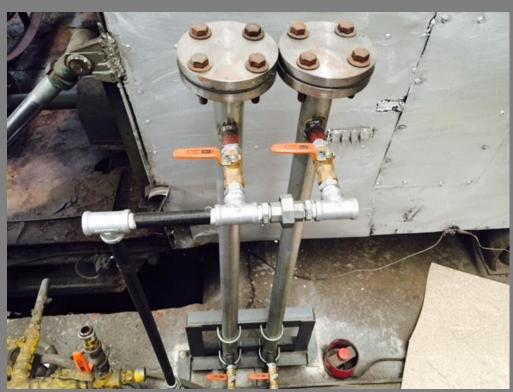
TESTING METHOD











DOS ECO GAS CATALYSE

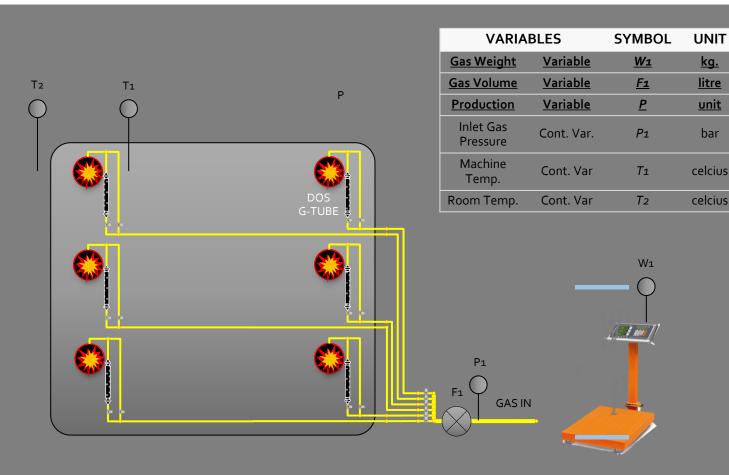


TESTING METHOD









$$\eta = \frac{W1}{P}$$



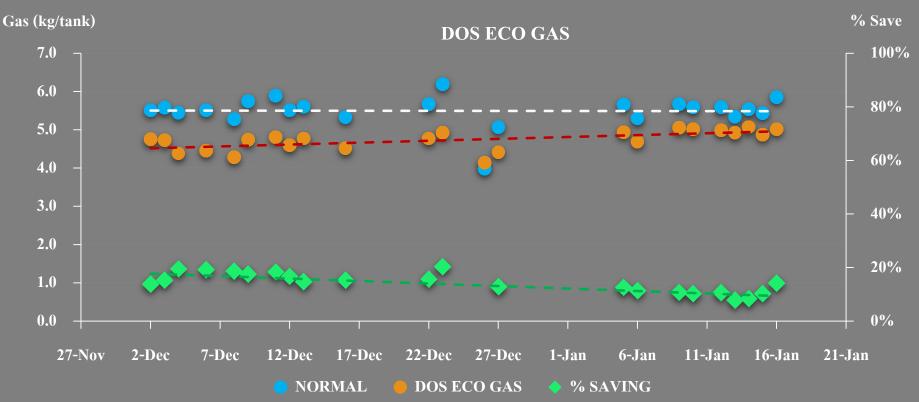
TESTING METHOD















Fire Tube Boiler 3 Tons at Thammasorn Co., Ltd.



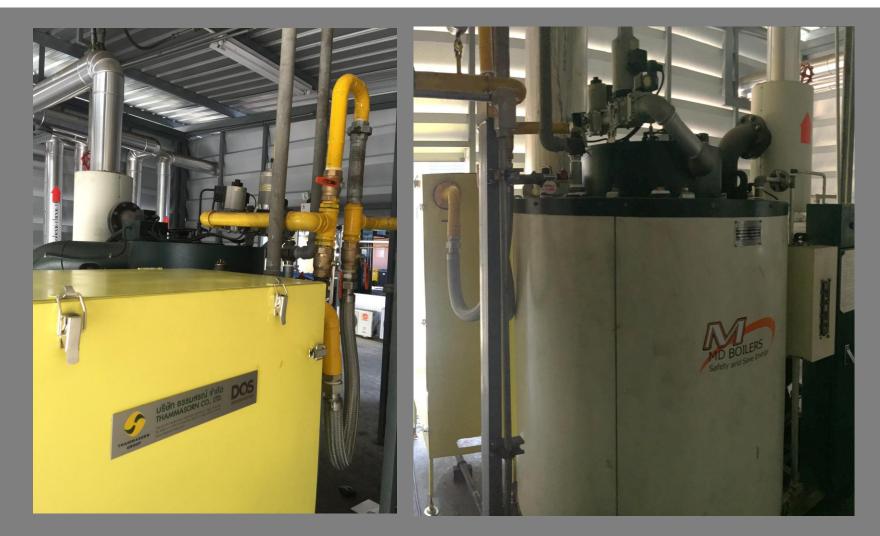




DOS ECO GAS

Once Through Boiler 1.5 Tons at Thai Young Chemical Co., Ltd.











Once Through Boiler 2 .5Tons x 4 at TIPCO F&B Co., Ltd.











Once Through Boiler 2.5 Tons at Thai Toshiba Electric Industries Co., Ltd.











Heat Treatment Oven 20 burners at Magotteaux Co., Ltd.











Once Through Boiler 2.5 Tons x 2 at Nipro (Thailand) Co., Ltd.





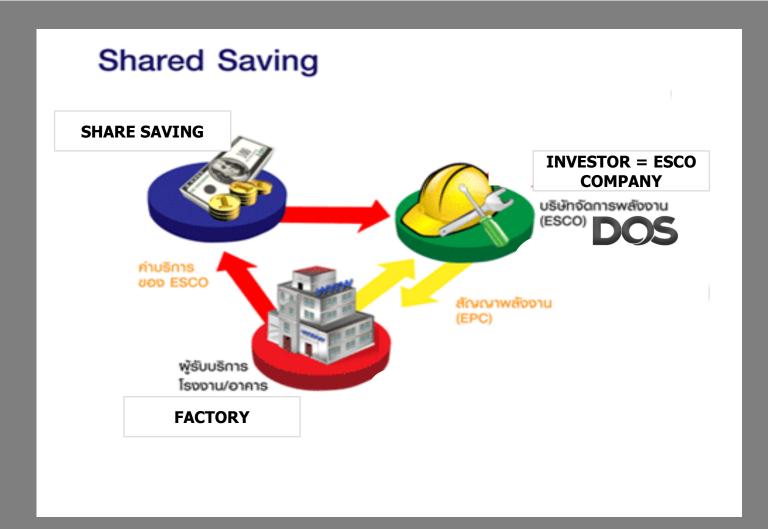




INVESTMENT MODEL









MEASUREMENT AND VERIFICATION



International Performance Measurement and Verification Protocol; IPMVP) METHOD A (Measured Factors and Stipulated)

Stream Ratio = FO/mS*

Stream Ratio = LPG Consumption to Steam Output

FO = LPG Consumption Rate (Kg/hr)

mS = Water Intake Rate (kg/hr)

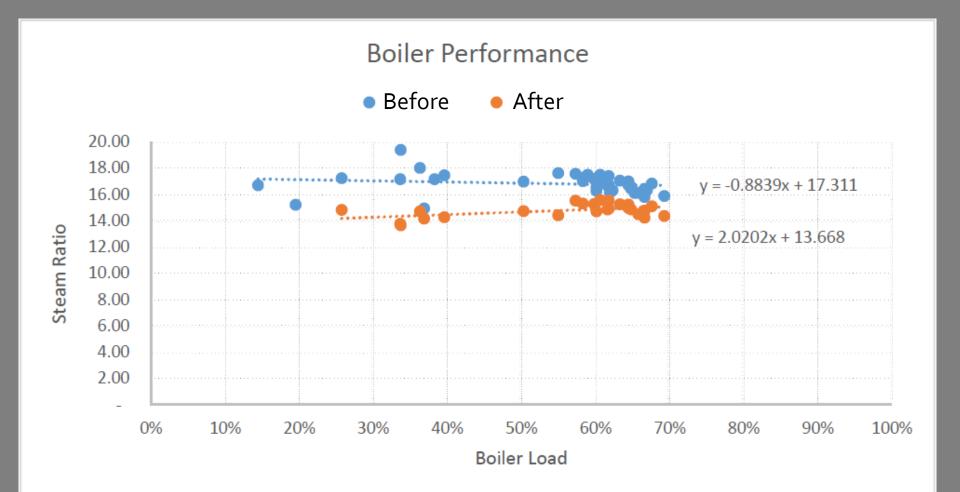
* Continuous data collection, analysed by fitted curve on scatter diagram.



MEASUREMENT SCENARIO









INVESTMENT GRADE AUDIT











BENEFITS (1)





ENERGY SAVING TO 20%



NOT USE POWER



GAS TEMPERATURE INCREASE TO 5-10%



EASY INSTALLATION



GREEN PRODUCT



PATENT PENDING



BENEFITS (2)



- Free Investment by ESCO Share Saving Project
- Efficiency LPG cost control with varying load baseline
- Confidence with international performance measurement and verification protocol (IPMVP-Method A)
- Use same metering equipment before and after installation
- Free services during the contract period
- Share saving with the market price of LPG at billing month
- Warranty by DOS



PROCEDURE STEP



Historical Data

IGA Measure

Contract

Installation

Energy Saving!





Thank You



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