Japanese companies in South China

Delivered to over 300 companies!

Bridgestone / Omron Electronics / Ricoh / YKK / Toshiba / Toray /
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Mandom / Meiji Dairies / Yuasa Battery / Nissin Kogyo / Mitsumi Electric /
Takahata Seiko 2 Factory / Sankyo Precision / Fuji Electric / Hosiden /
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JHN Oil / Obara Chemical / Arai Rubber / Yamashita Rubber /Dainichi Kako /
Kanematsu Group / Takagi Auto Parts /Sumiden Group Companies /
Shikoku Electric Wire / Bando Electric Wire / Nidec / Shibakawa Electronics /
Giken Optical / Yamaichi Electronics Tokyo Denko / JO Tech / TOMOS /
Aoki Construction / Morito Jitsugyo / Nippon Aleph / Tokyo Pigeon /
Nitto Kogyo / OTAX / CAMPLAS / Nishimatsu Construction /
Aoki Construction and others

Clean up the Earth!

Circulation treatment method (inside the treatment tank)

- 1. Circulation treatment is the best way to treat fuel thoroughly.
- 2. A sub-tank is easily modified to serve as a treatment tank.
- 3. Heavy oil / diesel in the treatment tank is circulated.
- 4. Fuel is circulated 15 times by the equipment and reformed into high-quality fuel.

NE	O-EXERGY Product Sp	ns	NEO-EXERGY High heat resistance (for Type C heavy oil)					
Model number	Usage (per day)	Length	Connection port size	Model number	Usage (per day)	Length	Connection port size	
NEO-50	~1,000ℓ	400mm	15mm(1/2")	NEO-HT50	~1,000ℓ	400mm	15mm(1/2")	
NEO-100	1,000∼2,000ℓ	620mm	20mm(3/4")	NEO-HT100	1,000∼2,000ℓ	620mm	20mm(3/4")	
NEO-300	2,000∼3,000ℓ	700mm	20mm(3/4")	NEO-HT300	2,000∼3,000ℓ	700mm	20mm(3/4")	

We will check the current usage and site conditions and then design and propose the model number and installation method.

[What to check before design]

- ■Type of oil ■Monthly operating days ■Daily fuel usage
- ■Monthly fuel consumption ■Fuel price
- ■Capacity of main tank and service tank
- Presence and size of day tank (small tank)
- ■Number of engines, boilers etc.

Manufactured and developed by: NANOBEST JAPAN Company Limited
Distributed by: Nakusul Japan LLC

 $https://nanobestjapan.lsv.jp \quad {\tt nanobestjapan.hokkaido@gmail.com}$

Simultaneously reduces both fuel consumption and greenhouse gas emissions.

CO2 Fuel COX reduction SOX

EO (VEXERGY



Fuel reforming filter device

To a higher level of oil quality



Boilers, generators, trucks, heavy machinery, ships, combustion furnaces, etc.





Special filter structure improves oil quality to a higher level

Our equipment's filter function does more than just filter fuel. It breaks down large non-combustible oil particles that have accumulated in the fuel tank into small particles and burns all the fuel that has escaped into the atmosphere as soot until now.

* Circulation pumps may require replacement due to wear and life.

Fuel Consumption The refined oil particles bind with oxygen, improving combustion efficiency.

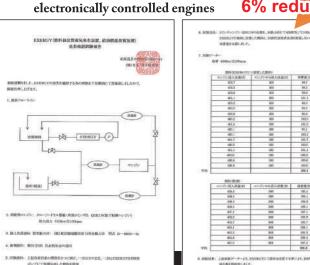
Fuel usage fee (diesel)

6% reduction

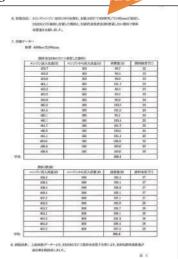
- Black smoke and PM Clumps of oil particles that cannot be completely burned can be used, reducing emissions.
- NOx, SOx Less oxygen is left, thus less is expelled.

A·B·C heavy oil Diesel Waste oil

Diesel fuel consumption in boilers [Hong Kong Government] 13.5% reduction Partner Program introduced in 2009



(Japan) Report on effectiveness of



Cleaner Production Partnership Program Organization: HKPC			(T	est period	1 month		
Packary Industry. Plastic Products Industry	Solution (2 cot period 2 months						
Aguitation Technology: Fusinaving device technology to increase dissel combustion efficiency Data Sourcia: Cleaner Production Pletrierably Program Demonstration Project (90000031) Reference Nazrber: CR-0027 Paylor Vess 2000	To increase the officiency of diesel combustion and control the emission of air pollutants. Axiong installed a fault sering device on the factory's faul backet.						
Technology Service Provider: Bright Success Hong Kong Limited (jirting huang@bahk.ret.on)	The fact-saving device						
Overview	30,000 gazza) isside. spring drying Since	When the system is st					
This document introduces a dismonstration project of discell optimization and energy-soving technology applied to factory that holizes. Generally, fuel botters fail to fully contrived discell, worting the fuel's host energy and exacorboting the omission of six pollutions.	are polar, they will be	districted and arrange using carbon-bydroge	d by the suggestic for a molecules to aggre	ld when possing the gets lose coolly, resul	ough these high- lting in the effort		
In this case, Axiong Plastic Hardware Factory in Bassin District, Shorthan (now sedimed to as Axiong), is a company mainly organish in plastic processing. With the support of the Classor	be tern apart hocases in diesel, misces der						
Production Pentrarship Program, the festivey installed a lied-noising-device (EXESICY EX-800) manufactured by Bright Statesson (ling King Linkshi) are the entire of the integrant of the surfacetion efficiency of direct and adverse the good of energy casting and amount aduction. After the system was get into service, it is estimated to save (NY 105.000 (doi: USD15.000) per year, with a polished genine of a feature one grant of the same of the period of a feature one period of a feature of the period of a featur	Since small-perfule control-lephagan melocules have more quickly fine large-particle carbon- hydrogen melocules, the structure in earther to enother bensing some only than wood block. Daned pound strongly the factor of members are made a major to produce complete controls from distinct has not proved through shile relating lever pollutars and more energy, achieving the good of energy assign and emmediate relations.						
The results show that the installation of the faul-saving device by Axing to improve boiler	Demonstration Project Overview						
ountrastion efficiency is one-effective.	Access completed the on-site installation of the fael-carring device in Merch 2009. After system						
Technical bosos	terting and correction	reing, it is now operat	ing normally.				
Dend i new of the most contensión and storage sources. Contentally, whose fixed it used, it is coposed to the dataset perfect for a large large desemble and the dataset and aggragate the medicales in the disord, thereby increasing the viscosity of the dated and relaxing its combination efficiency. An a result, localised in generated that produced, and companies must use many disord be recolled assessed memory.	Results Assung seviral the fact the installation of the to the table below:						
Microorganium in the six accelerate diesel deterioration. After deterioration, diesel produces more	Di Baler Operation	Amount of Hot	Fuel Consumption	Oli Gonsumption	Fuel Saving		
black stacks and forms shalps when barned, causing more serious environmental damage. Shalps not	Conditions	Water Supplied (m*)	0.5	(m'Line)	(%)		
only lowers dured quality but also affects boiler operation, increasing the frequency of boiler Galance	With Exergy EX-800 Without EX-800	919	608 716	0.793	11.5		
and addesing bridge graduations of financy.	achieve a weal that so	No. authorising the good- le supply of clusteristy fact boolers and backs	of find saving, varies, if the find up p generatory), Avinty rac In addition, after	ing rate includes all conservatively esti- ionalling the fiel-sa	I facilities using mater that it can ming device,		
Fuel saving device EX-800 Installed fiel saving device Pipe layout of fuel saving device	SHEADON.						

An example of annual reduction results

X .					
Japanese Company (China)		Allitual luci Neuuclion			CO2 reduction
Heavy oil	Nippon Wire	1,620KL	21%	340 KL	892 t
Diesel	Kyowa Plastics	1,620KL	15%	243 KL	637 t
Heavy oil	Seimei Aluminium	1,400KL	20%	280 KL	734 t
Diesel	Uniden	1,400KL	15%	210 KL	550 t
Heavy oil	Takahata Seiko	1,080KL	20%	216 KL	560 t
Heavy oil	Dainichi Seiko Chemical	900KL	20%	180 KL	472 t

Annual fuel consumption CO2 redu

Showa Plastics

Heavy oil 20% Fuji Electronics

CO₂ reduction /435 t

OB Industries Heavy oil 20%

CO2 reduction /377 t

Bridgestone Golf: Boiler

Omron Electronics: Generator







360,000 L→270,000 L CO₂Emissions 944 t →708 t

CO2 • fuel consumption



5,400KL→4,590KL

CO₂ Emissions **14,164** t → **12,039** t



Diesel truck fuel

Introduced in 2011

Truck fuel tank 400L Reformed in a 30-ton treatment tank

> Annual fuel consumption Average

Greatly improved To a higher level of oil quality



Sapporo International University (Japan)









Comparison of soot measurement results; A heavy oil (boiler)

	Nitrogen oxide concentration	Sulphur oxide concentration	Density	Total heat generation	Sulphur content
Before reform	120	0.30	0.8645	45200	0.40
After reform	Decrease rate (110) 8.3%	Decrease rate (0.19) 36%	0.8539	45410	Decrease rate (0.26) 35%

Generator Testing Fuel consumption to supply 1kWh to an electric water heater

										1	
Industrial Diesel Fuel			uel Fu	Fuel consumption Decrease rate 625ml → 525ml (-16%)			n-grade fuel	Eui	-	Tuel consumption Decrease rate 492ml → 456ml (-7.3%)	
						E PA TA	=/3=AU 5=0		20 00 3		
HC	793 ppm	HC	423 pp	Unburned Hydrocarbons	-47%	HC	424 ppm	HC	314 ppm	Unburned Hydrocarbons	-25.9%
co	1.47%	СО	0.29	Carbon monoxide (toxic exhaust gas)	-80%	co		CO	0.09%	Carbon monoxide (toxic exhaust gas)	-82%
COz	3.39%	CO2	3.83	Complete combustion of CO2	+13%	co	4.30%	CO:	4.51%	Complete combustion of CO2	+4.9%