Japanese companies in South China

Delivered to over 300 companies!

Bridgestone / Omron Electronics / Ricoh / YKK / Toshiba / Toray / Brother Industries / Pioneer / Fuji Xerox / Seiko / Epson / Olympus / Mandom / Meiji Dairies / Yuasa Battery / Nissin Kogyo / Mitsumi Electric / Takahata Seiko 2 Factory / Sankyo Precision / Fuji Electric / Hosiden / Dongyang Wanghe / Sanyo Group Companies / Nippon Express / 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

Simultaneously reduces both fuel consumption and greenhouse gas emissions.

Fuel consumption

CO_2

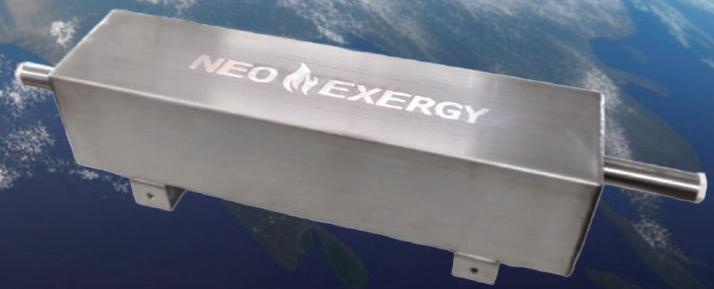
NOx

SOx

reduction

Clean up the Earth!

A clean environment for the next generation



FUEL REFORMER

NEO EXERGY

Fuel reforming filter device

To a higher level of oil quality

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

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.

NEO-EXERGY Product Specifications				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	400㎜	15㎜(1/2″)	NEO-HT50	～1,000ℓ	400㎜	15㎜(1/2″)
NEO-100	1,000～2,000ℓ	620㎜	20㎜(3/4″)	NEO-HT100	1,000～2,000ℓ	620㎜	20㎜(3/4″)
NEO-300	2,000～3,000ℓ	700㎜	20㎜(3/4″)	NEO-HT300	2,000～3,000ℓ	700㎜	20㎜(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 **nanobestjapan.hokkaido@gmail.com**

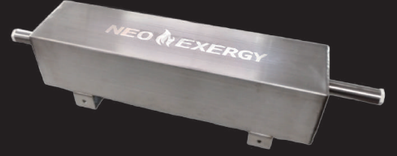
Reduce fuel consumption and greenhouse gas emissions such as CO_2 .

Reduce fuel costs reduction

Reduce CO_2 , NOx, and SOx emissions

Maintenance-free for 20 years

FUEL REFORMER
NEO EXERGY
Fuel reforming filter device



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.

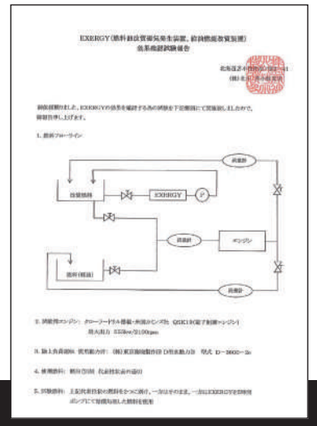
※Circulation pumps may require replacement due to wear and life.

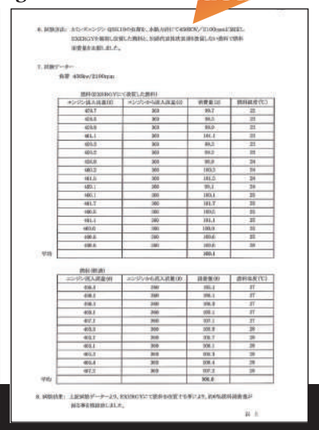
- **Fuel Consumption** The refined oil particles bind with oxygen, improving combustion efficiency.
- **Black smoke and PM** Clumps of oil particles that cannot be completely burned can be used, reducing emissions.
- **NOx, SOx** Less oxygen is left, thus less is expelled.

A・B・C heavy oil | Diesel | Waste oil

(Japan) Report on effectiveness of electronically controlled engines

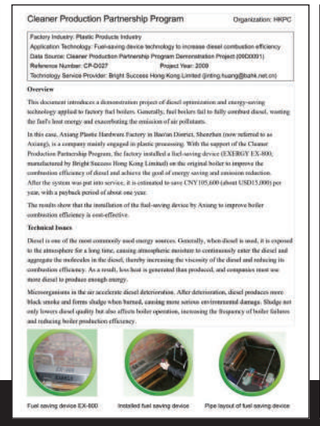
Fuel usage fee (diesel) **6% reduction**

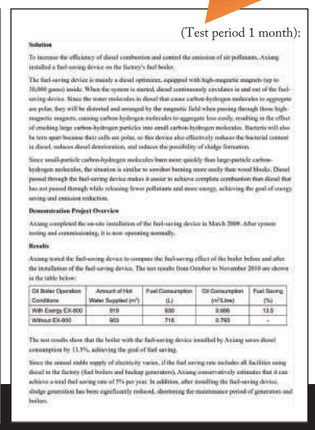




【Hong Kong Government】 Partner Program introduced in 2009

Diesel fuel consumption in boilers **13.5% reduction**





Since this device does not change the fuel itself, it has no adverse effects on the machinery or other equipment used.

An example of annual reduction results

Japanese Company (China)		Annual fuel consumption	Reduction effect	Fuel savings	CO_2 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
CO_2 reduction

Showa Plastics Diesel **17%**
CO_2 reduction ／**645 t**

Fuji Electronics Heavy oil **20%**
CO_2 reduction ／**435 t**

OB Industries Heavy oil **20%**
CO_2 reduction ／**377 t**

Bridgestone Golf: Boiler

CO_2・fuel consumption **annual reduction 25%**

Heavy oil

Fuel savings: 90,000L
CO_2 reduction: 236t

Annual fuel consumption;
360,000 L→270,000 L
CO_2 Emissions **944 t →708 t**

Omron Electronics: Generator

CO_2・fuel consumption **annual reduction 15%**

Diesel

Fuel savings: 810KL
CO_2 reduction: 2,125t

Annual fuel consumption;
5,400KL→4,590KL
CO_2 Emissions **14,164 t →12,039 t**

Diesel truck fuel

Introduced in 2011

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

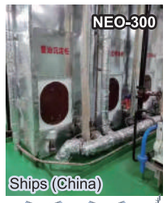
Annual fuel consumption
CO_2 reduction
Diesel
Average
10.6% reduction

Greatly improved
To a higher level of oil quality

Sapporo International University (Japan)

Ogawa Iron Works Co., Ltd.
(Thailand Factory)

Daioh Package
(Japanese company in China)



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

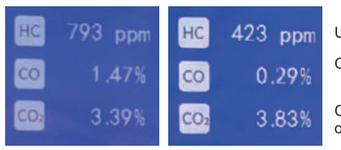
	Nitrogen oxide concentration	Sulphur oxide concentration	Density	Total heat generation	Sulphur content
Before reform	120	0.30	0.8645	45200	0.40
After reform	Decrease rate (110) **8.3%**	Decrease rate (0.19) **36%**	**0.8539**	**45410**	Decrease rate (0.26) **35%**

Generator Testing

Fuel consumption to supply 1kWh to an electric water heater

Industrial Diesel Fuel

Fuel consumption **625ml➡ 525ml (-16%)** Decrease rate

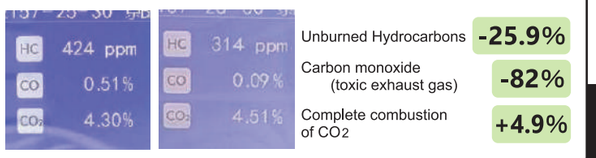


Unburned Hydrocarbons	-47%
Carbon monoxide (toxic exhaust gas)	-80%
Complete combustion of CO_2	+13%

Diesel

High-grade fuel Euro-5

Fuel consumption **492ml➡ 456ml (-7.3%)** Decrease rate



Unburned Hydrocarbons	-25.9%
Carbon monoxide (toxic exhaust gas)	-82%
Complete combustion of CO_2	+4.9%