

Reduce fuel costs and
greenhouse gas emissions
simultaneously...

Fuel
Consumption

CO₂



NO_x

reduction

SO_x



Diesel /
Kerosene

Fuel
Oil

FUEL REFORMER
NEO EXERGY
Fuel reform filter device



Significant improvement
in fuel efficiency

Boilers, kitchens, generators, trucks, ships, construction equipment, combustion furnaces, etc.

Global Warming

CO₂, NO_x, SO_x Emissions Reduction

Equipment costs can be quickly amortized by fuel reduction.

Soaring oil prices

Easy Installation

Fuel Costs Reduction

Reduce Greenhouse Gas Emissions

20 Years Maintenance Free

Complete combustion reduces fuel consumption and greenhouse gas emissions such as CO₂.

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

Diesel/Kerosene

Fuel Oil

NEO EXERGY
FUEL REFORMER
Fuel reform filter device



The filter function of our equipment is not to filter fuel. By breaking up the large non-combustible oil particles in the fuel into smaller pieces, the fuel that has not yet burned and escaped into the atmosphere as dust can be completely burned.

If the combined oil particles are 100µm or larger, they will settle in the ducts, and some of them will enter the combustion chamber where they cannot burn and become dust.

Special structure realizes super repulsion!
Crush the clumps of oil particles.

Complete Combustion

Less fuel consumption

Refined oil particles combine with oxygen to improve combustion efficiency.

Reduced black smoke and PM emissions

Masses of oil particles that cannot be burned normally can also be burned.

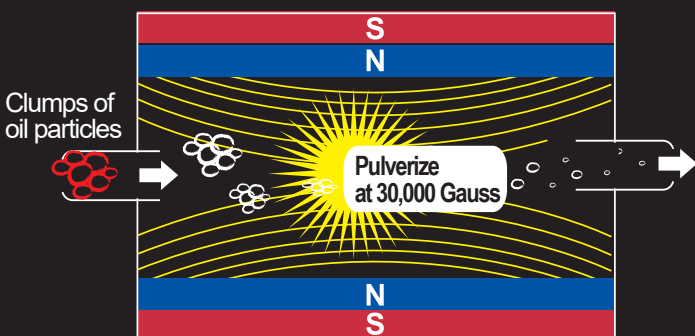
Reduce NO_x and SO_x emissions

Fewer oxygen residues from the inhaled oxygen with less exhaust emissions.

*Solid and liquid components contained in exhaust gas such as PM / black smoke

*NO_x (nitrogen oxides), SO_x (sulphur oxides)

Mechanism

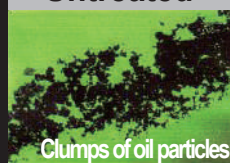


Oil particles under 30µm are completely combustible.

Oil particles that were over 100µm are reduced to 30µm by continuous circulation processing.

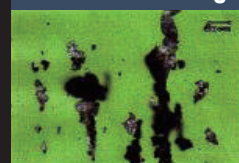
Diesel

Untreated

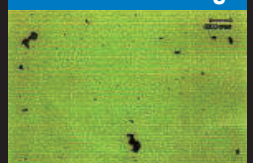


Clumps of oil particles

12 hours Processing



24 hours Processing



The rate of reduction in fuel consumption also reduces CO2 by the same percentage.

Japanese Companies in South China

Delivered to over 300 Companies

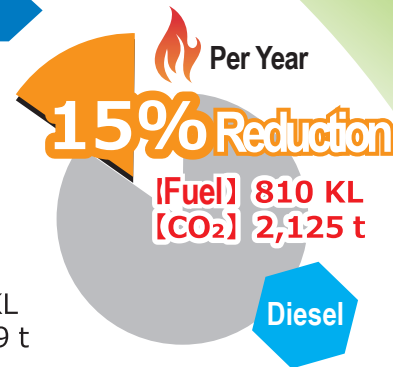
- Bridgestone / Omron Electronics / Ricoh / YKK / Toshiba / Toray / Brother Industries / Pioneer / Fuji Xerox / Seiko / Epson / Olympus / Mandom / Meiji Dairies / Uniden / Yuasa Battery / Space Seimitsu / Nissin Kogyo / Mitsumi Electric / Takahata Seiko 2 Plant / Sankyo Seimitsu / Fuji Electric / Hosiden / Toyo Owa / Sanyo Gp 4 Offi / Nippon Express / JHN Oil / Ohara Chemical / Arai Rubber / Yamashita Rubber / Seimei Aluminum / Orbi Industry / Kyowa Plastic / Showa Plastic / Dainichi Processing / Kanematsu Group / Takagi Auto Parts / Two Sumiden Group Companies / Shikoku Electric Wire / Nippon Seisen / Bando Electric Wire / Nidec / Shibakawa Electronics / Giken Optical / Yamaichi Electronic Tokyo Denko / JO TEC / TOMOS / Aoki Construction / Morito / Nippon Aleph / Tokyo Pigeon / Nitto Kogyo / OTAX / CAMPLAS / Nishimatsu Construction / Aoki Construction etc.

Omron Electronics: Generator



[Fuel consumption] 5,400KL → 4,590KL
[CO2 emissions] 14,164 t → 12,039 t

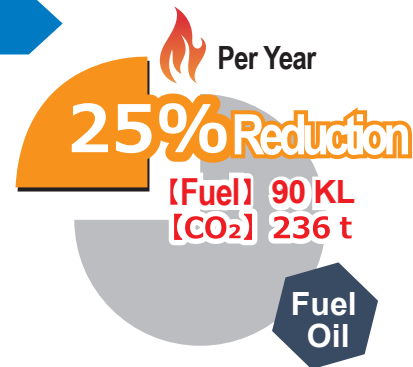
Annual fuel consumption



Bridgestone Golf



[Fuel consumption] 360KL → 270KL
[CO2 emissions] 944 t → 708 t

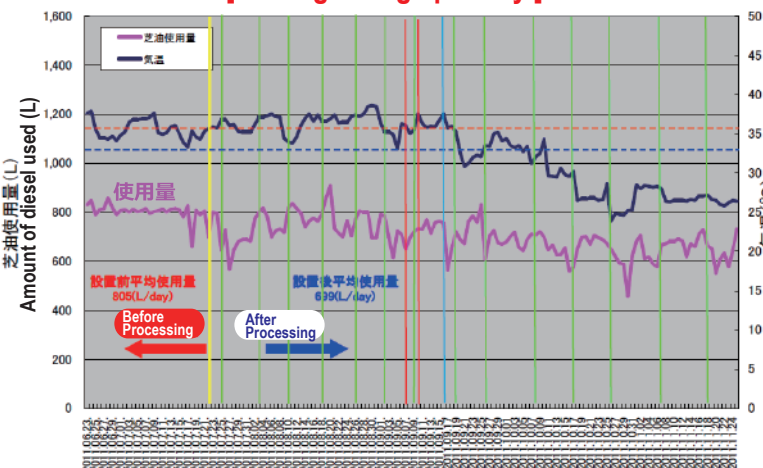


Company Name	Annual Fuel Consumption	Reduction effect	Fuel reduction amount	CO2 emission reduction
Fuel Oil Nippon Seisen Cable	1,620KL	21%	340 KL	892 t
Diesel Kyowa Plastic	1,620KL	15%	243 KL	637 t
Diesel Kyocera	1,500KL	18%	270 KL	708 t
Diesel Showa Plastic	1,450KL	17%	246 KL	645 t
Fuel Oil Ching Ming Aluminium	1,400KL	20%	280 KL	734 t
Diesel Uniden Electronics	1,400KL	15%	210 KL	550 t
Fuel Oil Takahata Precision	1,080KL	20%	216 KL	560 t
Fuel Oil Dainichiseika	900KL	20%	180 KL	472 t
Fuel Oil Fuji Electronics	830KL	20%	166 KL	435 t
Fuel Oil OB Kogyo	720KL	20%	144 KL	377 t

Introduced in July 2011

Average 19% reduction in fuel consumption over half a year Diesel
Central Aircon. Boiler

[Average usage per day] 805 L → 699 L



Company Introduced Porite DONG-GUAN Powder Metallurgy CO.,LTD.

Introduced in July 2011

10.6% average fuel savings Diesel



Treatment Tank 30 t
Measured 300 owned trucks
Fuel tank capacity 400L



Introduced in August 2013

Achieved average 10% fuel savings in 2 months



Main tank 15,000L

Complete combustion eliminates the emission of black smoke.

*Ship owner's target: 5% fuel reduction, prevention of black smoke emission

Nine 4000-ton cargo ships (China)

Clean up the planet !

A clean environment for the next generation



Circulation treatment method (in treatment tank)

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

If the equipment type and circulation time do not match the actual plant, it will not save fuel. Too much processing will result in excessive fuel consumption, not fuel reduction.

Confirmation before design ■ Fuel type ■ Monthly operation days ■ Daily fuel consumption ■ Monthly fuel consumption ■ Fuel price
 ■ Presence and size of day tank ■ Capacity of main tank and service tank ■ Number of engines, boilers (combustion equipment), etc.

[Example] Treatment tank / 1,000L~5,000L

Main tank / 10,000L~20,000L

- ① Circulation is the best way to upgrade fuel fully.
- ② Simple remodelling of the sub-tank as a treatment tank.
- ③ The fuel in the treatment tank is continuously circulated for 12hours.
- ④ The device processes the fuel 10-20 times a day and is reformed into high-quality fuel.



Product Specifications

Model number	Daily Usage	Length	Connection Φ
NEO-100	~1,000 ℓ	600mm	3/4"
NEO-300	1,000~2,000 ℓ	700mm	3/4"
NEO-500	2,000~4,000 ℓ	800mm	3/4"

Model number	Daily Usage	Length	Connection Φ
NEO-800	4,000~6,000 ℓ	900mm	1"
NEO-1000	6,000~7,500 ℓ	1140 mm	1.5"
NEO-1200	7,500~10,000 ℓ	1290mm	2"

Japan Technology

NEO FUEL REFORMER **EXERGY**

Sales Agent: