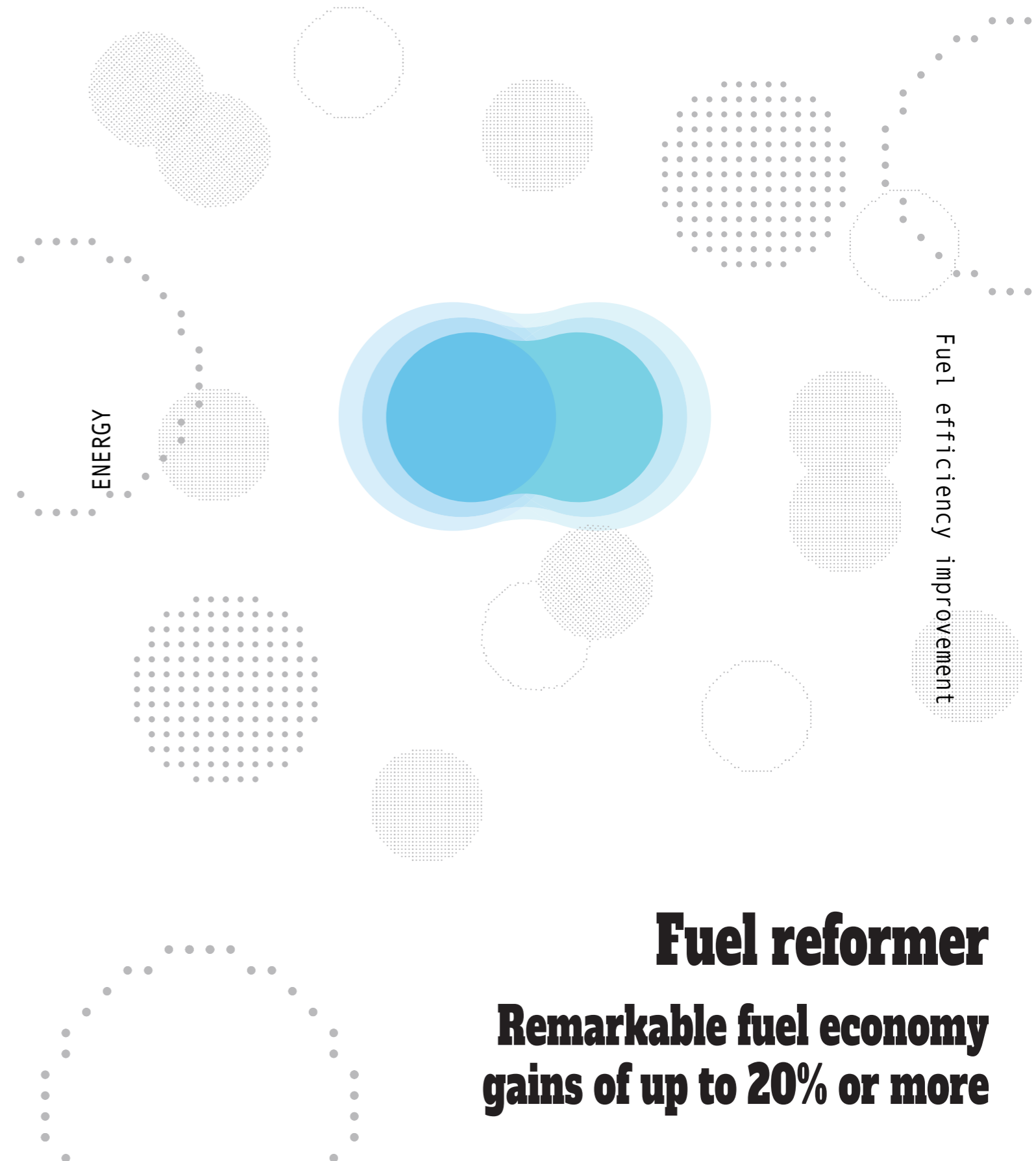


# Torus Generator



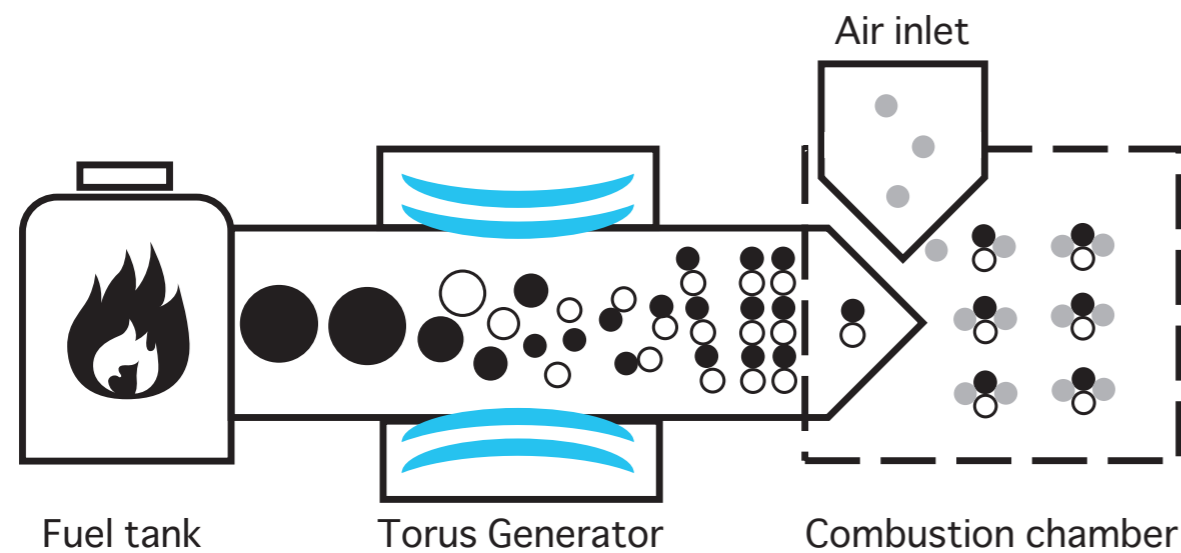
YSC Co., Ltd  
#806 Excellence Gion,1-3  
Reisen-machi, Hakata-ku,  
Fukuoka-city, Fukuoka, 812-0039  
Phone: +81-92-292-5058

**Fuel reformer**  
**Remarkable fuel economy**  
**gains of up to 20% or more**

# The only device that improves fuel economy and efficiency without directly contacting the fuel

Resonant waves atomize fuel molecules to allow more efficient burning in order to reduce fuel consumption. Our technology promotes clean exhaust and is highly effective in reducing CO2 emissions.

## Fuel Reduction Process



Methane molecules can absorb electromagnetic radiation of a certain wavelength. When subjected to continuous energy, the molecules vibrate more intensely to absorb the energy. This intense vibration creates more friction with oxygen molecules, thereby accelerating the combustion reaction and increasing the flame temperature to improve combustion efficiency.

## Table of Torus Generator Specifications

### 01 Multi-screw power



Easily resonates various liquids such as a two-liter bottle of water, cosmetics, etc., at 4 different types of frequencies. Equipped with timers for 60 and 180 minutes.

### 02 Mini type



Compatible sizes for basic pipe diameters  
**10A | 15A | 20A**

Ability to reform

30ℓ	15ℓ	10ℓ
per minute	per hour	per hour
water	Heavy oil A	light diesel oil kerosene

### 03 Junior type



Compatible sizes for basic pipe diameters  
**15A | 25A | 32A**

Ability to reform

70ℓ	70ℓ	40ℓ
per minute	per hour	per hour
water	Heavy oil A	light diesel oil kerosene

### 04 Standard type



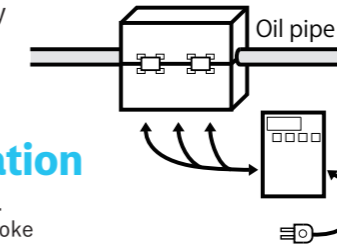
Compatible sizes for basic pipe diameters  
**50A | 70A**

Ability to reform

350ℓ	200ℓ	110ℓ
per minute	per hour	per hour
water	Heavy oil A	light diesel oil kerosene

## Easy Installation

Competitive fuel reformers often require a facility shutdown for additional installation work. And given their large size and the need to replace parts quickly, the work entails a time-consuming and labor-intensive effort. As shown below, however, the Torus Generator can be easily installed without disrupting operation by simply clamping it on top of an oil feed pipe.



## Example of installation



Company name : K Inc.  
Industry : Dry coke  
Facility type : Rotary kiln  
Fuel type used : Heavy oil A  
Operating time : 8h/Day  
Operating days : 21 days per month  
Fuel consumption : 450,000 ℓ /Year

Heavy oil A cost: 92.1 yen (as of June 2022)  
▶ 450,000 ℓ × 92.1yen = 41,445,000yen  
Annual fuel cost at installation (Energy efficiency ratio of 15%)  
▶ 450,000 ℓ × 0.15 = 67,500 ℓ  
▶ 67,500 ℓ × 92.1yen = 6,216,750yen  
Cost reduction of 6,216,750 yen per year  
\* Crude Oil Prices in Japan

Energy efficiency ratio  
**15%**

## Process of removing sludge and pitch tar

Torus Generator can make your facility more environmentally friendly by cutting down on fuel consumption which reduces CO2 emissions! In addition, stable fuel efficiency contributes to improved durability of the equipment itself.

## Environmentally Friendly

The Torus Generator can make your facility more environmentally friendly by cutting fuel consumption to reduce CO2 emissions! Stable fuel efficiency also helps to improve the durability of the equipment.

## Industries targeted for installation

Food manufacturers, greenhouses, nursing homes, paper manufacturers, power plants, etc.

## Experimental results

Type of industry	Installation location	Energy efficiency ratio	Oil type	Pipe diameter	Manufacturer
Hotel	Boiler	26.40%	Heavy oil A	25A	NE company
Asphalt plant	Kiln	22.20%	Special A heavy oil	32A	NK company
Spa/Sauna	Boiler	11.60%	Heavy oil A	25A	MA company
Electronic components	Boiler	26.00%	Heavy oil A	25A	MI company
Spa/Sauna	Boiler	16.10%	Heavy oil A	25A	MI company
Grocery store	Air conditioning	18.00%	Heavy oil A	25A	MZ company
Drink manufacturer	Boiler	15.00%	Heavy oil A	25A	SA company
Laundry service	Boiler	10.00%	Heavy oil A	20A	MI company

\*Modification capacity is only an estimate and may vary depending on the operating environment.