

“Clean energy Hydrogen eco System”

Moving toward an age of new energy...

What we can do for Earth...

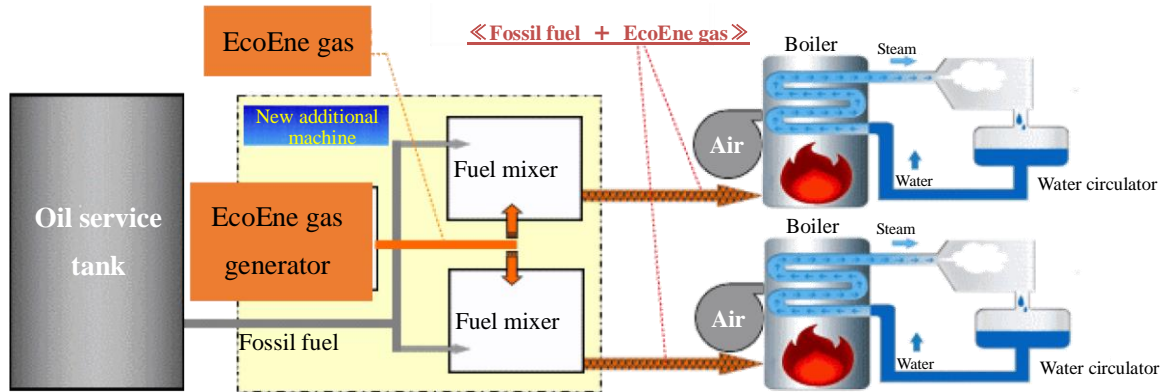


Ecological Energy Co., Ltd.

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Excerpt from previous performance Product type [L1]	After installation of EcoEne System							Per day in the next month

Fossil fuel + Acid, hydrogen gas = 20% less fuel consumption



In order to restore Earth to a healthy planet, we have advocated a reduction of CO₂ by 25% and have promoted the use of nuclear power generation. However, as nuclear power generation now threatens the survival of the human race, more efficient burning of fossil fuels is required in order to realize greater CO₂ reductions. Therefore, we propose the **EcoEne Gas System (patented)**, a new complex fuel which electrolyzes “water” in fossil fuel which you currently use. This generates a fuel called “EcoEne gas” oxyhydrogen gas that when mixed in a nano-state, drastically increases combustion efficiency through the catalytic effect of hydrogen (H) and oxygen (O), and thus achieves fuel saving CO₂ reductions. Unlike conventional methods in which mixed injection of fossil fuel and oxyhydrogen gas was performed with an ignition nozzle, this method mixes gas into liquid fuel, allowing system devices to be compact, economical with no concern for flashback, and can be used with safety in mind.



EcoEne Gas System KJC-2014-70h [Fuel supply amount Maximum 150L/h specifications]

※Reduction ratio cannot be guaranteed.

Company T baking furnace installation performance [1 gallon burner 16 units in operation] 2014 subsidy adoption project

Previous performance of 71L/h lowered to 54L/h after installation

April / day	Fuel consumption L/h	Time	First day	Fuel consumption L/h	Time	Second day	Fuel consumption L/h	Time	Third day	Fuel consumption L/h	Next day / day	Fuel consumption L/h
1	71.38	7:55	8292.25		8:00	8909.56		8:00	9509.73		15	55.14
2	70.93	8:50	8354.81	62.56	9:00	8981.02	71.46	9:00	9581.94	72.21	16	55.12
3	70.64	9:50	8423.44	68.63	10:00	9049.55	68.53	10:00	9647.21	65.27	17	55.58
4	71.09	10:50	8484.65	61.21	11:00	9111.05	61.5	11:00	9707.26	60.05	20	54.92
7	71.54	11:50	8557.78	73.13	12:00	9171.81	60.76	12:00	9767.32	60.06	21	51.52
8	76.39	12:50	8613	55.22	13:00	9231.62	59.81	13:00	9820.7	53.38	22	52.67
9	71.24	13:50	8672.58	59.58	14:00	9286.98	55.36	14:00	9880.25	59.55	23	53.12
		14:50	8742.59	70.01	15:00	9343.54	56.56	15:00	9931.98	51.73	24	52.03
		15:50	8792.34	49.75	16:00	9403.67	60.13	16:00	9985.59	53.61	27	54.14
		16:50	8850.82	58.48	17:00	9456.14	52.47	17:00	10039.24	53.65	28	57.65
		17:50	8909.56	58.74	18:00	9509.73	53.59	18:00	10090.99	51.75	29	57.75
Average		Total consumption	617.31			600.17			581.26			
Usage	71.887	Average consumption	61.731		Average consumption	60.017		Average consumption	58.126		Average consumption	54.51

Standard type Specifications outline

Model ■ ■ ■ EcoEne Gas System KJC-2014-70h [Fuel supply Max. 150 L/h specifications]

- 1) Fuel supply pump -----AC200V 50/60Hz 0.5Kw
- 2) Fuel circulation pump-----AC200V 50/60Hz 0.75Kw
- 3) Electrolysis panel-----AC200V 50/60Hz 1.25Kw
- 4) Suction, discharge piping diameter-----15φ
- 5) EcoEne gas yield-----1.5m³/h [3.5kw/h]
- 5) Deionizer -----RU450PW(100V · 50/60Hz)500 L/day
- 5) External dimensions-----L 1,000×W1,300×H1,200
- 6) Supply Amount-----1,620L/h
- 7) Weight-----300Kg



※The specifications depend on the installation place and fuel supply, and are determined through consultation each time.

Utilities on the primary side are not included in the installation.

Eco energy “EcoEne Gas” application example

- Metals →Melting (Various metals, iron, stainless steel, tungsten, titanium, refractory brick etc.)
- Supplied to boilers such as steam boilers, hot water boilers, combustion furnaces
- Supplied to incinerator plant, rotary kiln, drying furnace and other boilers
- Supplied to large engine power generators, compressors, large vessels, large vehicles as a fuel
- Aside from fuel, it can be used as reinjected water (hydrogen water -600mv) for hydrogen water refinement equipment, cultivation and hydroponic cultivation for agriculture and livestock, hot springs [hydrogen baths] and pools.

Q & A

Economic efficiency

Expense versus effect is established with reduction in fuel consumption by energy savings and lower labor costs by full automatization

Installation space

This does well with water and electric power. This has no large storage tank, and is designed compact.

Safety

This mixes EcoEne Gas with fossil fuel to burn. Therefore, there is no danger of firing and is designed with safety in mind.

Maintenance

This requires only simple replacement of consumables and cleaning by annual inspection.

Company profile

■ Headquarters



Organization name	Ecological Energy Co., Ltd. [Homepage] http://ecoene.jp/ (Posted Ecological Energy Technology Development)
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Business	Planning, design, production, sales, wholesale, export and import of oxyhydrogen gas generator for fuel reduction New and recycled energy power generation, planning, design, production, sales, wholesale, export and import of energy storage equipment
Related companies and facilities	Kankyo Joka Center Co., Ltd. [Fukuyama-shi, Hiroshima] [Homepage] http://kjc.trapack.jp/ Joint Test Center [Niko Building 1F, 1-Chome, Kasamatsu, Izumisano-shi, Osaka] Inspection / Observation Tours Available. Okinawa Plant Office [Waste bin recycle plant, 477 Aza Koshihara, Yaese-Cho, Okinawa] Inspection / Observation Tours Available