

1 Last resort to prevent global warming Residential fuel cell cogeneration system

The EBARA Group has contributed to global warming prevention by offering clean and energy-efficient fuel cells to society. We have delivered over 700 systems since we introduced the world's first residential fuel cell cogeneration system in 2005.

Fuel cell which contributes to reductions in household CO₂ emissions

EBARA Ballard Corporation is in charge of PEFC*1 fuel cell units and EBARA is in charge of comprehensive PEFC cogeneration systems. We have promoted the joint development of 1-kW-class residential fuel cells with leading gas companies and oil companies. We limitedly released the natural gas-type commercial product "LIFUEL"*2 developed in cooperation with Tokyo Gas Co., Ltd. for the first time in the world in April 2005, and also limitedly released the kerosene-type commercial product "ENEOS ECOBOY"*2 in cooperation with Nippon Oil Corporation in March 2006.

The fuel cell generates electric power by using the reverse principle of water electrolysis and is a clean and highly-efficient piece of power generation equipment because only water is discharged in generating power, and the heat generated at the same time can also be used. It is considered to be a strong favorite for next-generation clean energy.

At present, a global approach to prevent global warming is required in each country. In Japan, reduction of household CO₂, which is increasing every year, is one of our challenges. The fuel cell is a potential trump card we could use to meet this challenge.

Japanese fuel cell attracting worldwide attention

The Japanese government has been promoting a large-scale stationary fuel cell demonstration project that offers subsidies to energy businesses such as gas companies and oil companies since 2005. Other countries are paying attention to it as a cutting-edge approach in the world. The EBARA Group continues to improve efficiency, durability and reliability of the system and is committed to not only providing a comfortable life to every single customer but also developing environmentally-friendly products.

*1 [PEFC] Polymer electrolyte fuel cell

*2 The "Fuel Cell Commercialization Conference of Japan" decided to integrate names of residential fuel cell products developed by different companies into "ENE FARM" on June 25, 2008. The residential fuel cell makes electric power and heat from hydrogen and oxygen, which is similar to growing crops with water and land. To express this image, they came up with the new name "ENE FARM" from "Energy" and "Farm."



Limited edition of natural gas type of commercial product LIFUEL*2



Limited edition of kerosene type of commercial product ENEOS ECOBOY*2

Installation image of the residential fuel cell Commercial power supply

