

【Improving Environmental Capabilities of Life and Amenity-related Products】 Eco-and human-friendly technologies enrich our life

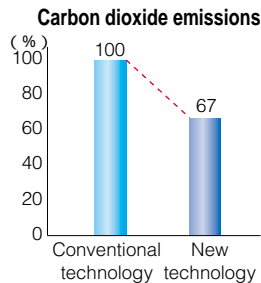
Our development activities never take place without thinking of the global environment, including energy-savings, cutting resource consumption, and reducing air and water pollution.

Business-grade gas engine cogeneration system

There are many facilities, such as restaurants, lodging facilities, and nursing care facilities, that require a lot of hot water as well as electric power for their businesses. We provide such users with a highly efficient cogeneration system to supply electric power and hot water. This cogeneration system does not waste power transmission, since power generation takes place where the electricity is used, and is efficient, since exhaust heat is used to heat the water and air.



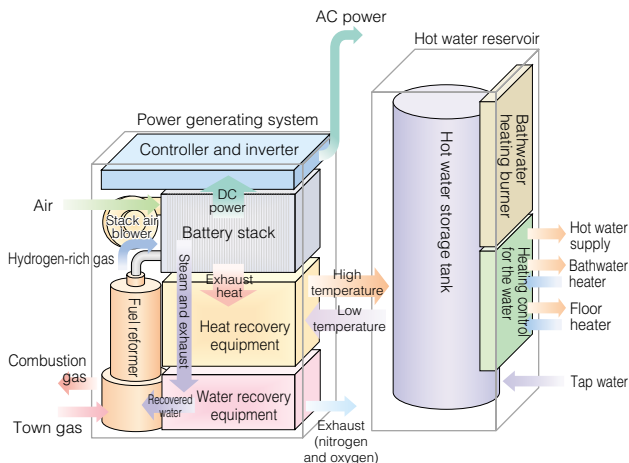
6 kW business-grade gas engine cogeneration system



Home fuel cell cogeneration system

As we promote the development of fuel cell technology, a technology for the 21st century, we plan to provide a clean cogeneration system for home use. This cogeneration system generates electricity for use in the home and efficiently uses the heat energy generated during the fuel cell's reaction process. The heat energy is used to heat water for bathing, cooking, and dishwashing (jointly developed with Toyota Motor Corporation).

Structure of 1 kW home fuel cell cogeneration system



Lightweight electric wheelchair, "TAO-LIGHT II"

One major drawback to conventional electric wheelchairs is their heavy weight. Because of the heaviness, it is hard to load electric wheelchairs into cars and is inconvenient to transport. The weight also limits their mileage per single charge. We have resolved all of these problems by reducing the weight to two-thirds and doubling the mileage to 20 km. To be eco-friendly, we first need to make human-friendly products.



Lightweight electric wheelchair

Environmental considerations incorporated in development

- Elimination of hazardous substances
Hazardous cadmium has been eliminated by changing the batteries in the TAO-LIGHT II from NiCd batteries to NiMH batteries.
- Recyclability considerations
Insert-molded hand rims have been changed to metal-made hand rims.
Joined JBRC for recycling batteries
- Saving resources
Supporting resource-saving efforts through a 10 kg weight reduction



Mr. Goto, group manager, Mr. Yuki, and Ms. Sasaki (from left to right) of the Keep-able Department are making adjustments to the wheelchair operations.

Advice from an Environmental NPO

"As stated in your Environmental Charter and Environmental Policy, contributions to people's health and welfare through your core businesses should be the way that business entities make true contributions to society. This product is the ultimate output of your philosophies. We recognize the lightweight wheelchair as a user-friendly, epoch-making product. We hope that Aisin continues to grow as a user-friendly manufacturer."