

Hiroshima Gas CSR Report 2021

Digest

Corporate Social Responsibility Report

Creating a sustainable society with our hands...

Flow of delivering natural gas to our customers

City gas supply flowchart



Supply area and organization



Hiroshima Gas makes sure its energy supply system is stable and secure so that all of its customers can always use natural gas in a safe manner.

Digest



Hiroshima Gas Group 2030 Vision

1 Slogan for Hiroshima Gas Group 2030 Vision

Sending moving messages that make us happy

2 Basic Policies for 2030 Vision

1 Pursuit of inspiration through our operational policies	2 Pursuit of inspiration through our energy service
3 Pursuit of inspiration through peace of mind	4 Pursuit of inspiration through connection with others

Declaration of the Sustainable Development Goals set by Hiroshima Gas Group for the benefit of communities

Declaration of the Sustainable Development Goals set by Hiroshima Gas Group for the benefit of communities: Taking action to create a brighter future

Based on our management philosophy of "striving to be a company trusted by the community", Hiroshima Gas Group seeks to implement viable corporate governance and work toward the Sustainable Development Goals proposed by the United Nations in order to contribute to building a sustainable society under the company slogan of "energy that truly benefits communities".

October 30, 2020 Hiroshima Gas Group

Efforts by Hiroshima Gas Group to achieve carbon neutrality by 2050

Efforts by Hiroshima Gas Group to achieve carbon neutrality by 2050: Aspiring to develop businesses that contribute to the creation of a carbon neutral society

- We are committed to reducing cumulative CO₂ emissions by 2050 through a complete shift to and full use of natural gas.
- By aspiring to develop businesses that contribute to the creation of a carbon neutral society, we want the Hiroshima Gas Group to grow with the community.



Developing businesses that contribute to the creation of a carbon neutral society

Kaita power generation using biomass co-firing technology



Kaita Power Station (Kaita Biomass Power)

Small-scale hydropower generation



Hiroshima Gas Shiwahori Power Station (water turbine and generator)

Revitalization of local forests



"Hiroshima Gas Jinsekikogen Forest for the Benefit of Communities" event for celebrating the opening

Three Basic Values Our Slogan Represents

- 1 The Hiroshima Gas Group grows with the community
- **2** Energy that truly benefits communities
- To pursue inspiration and send moving messages that we can share with the entire community



Poster for "Declaration of the Sustainable Development Goals set by Hiroshima Gas Group for the benefit of communities"

Delivering safe, stable, Management and clean natural gas

A comprehensive system has been put into place to ensure that gas is used in a safe and secure

Company performance information

First decrease in revenue in four years and second consecutive year of increase in ordinary profit

Due to a drop in the gas unit sales price and decrease in gas sales of commercial and wholesale supply, consolidated net sales in FY2020 totaled 73,250 million yen for a decrease in revenue of 9,017 million yen (11.0%) when compared with the previous fiscal year.

In regard to profits, ordinary profit was 3,467 million yen, an increase of 13 million yen (0.4%) compared to the previous fiscal year. Profit attributable to owners of the parents was 5,272 million yen, an increase of 3,119 million yen (144.9%), due to extraordinary gain recorded and similar factors.



Business activities

LNG procurement and production

Based on long-term contracts with Sakhalin (Russia), Osaka Gas Co., Ltd., and Malaysia, it is possible to source 400,000 tons of LNG per year. This is the raw material used to create city gas. City gas is produced at the Hatsukaichi LNG terminal, the Bingo plant, and the Higashi-hiroshima plant. LNG (liquefied natural gas) reception and the entire gas production process at these locations are tightly controlled via the central control room.

Central control roon

Supply and distribution plants

In order to reliably supply customers with city gas produced in our factory, the security command center constantly monitors the gas pressure and supply state. To ensure adequate response in an emergency situation, we have established a system that allows quick 24-hour response and dispatch

even during night hours and holidays.



Emergency vehicles











Maintenance of an "Ene-Farm" household fuel cell

LNG ship entering port for loading or unloading and our Hatsukaichi LNG terminal

Business

We have established a system to allow more customers to safely and reliably use environmentally friendly natural gas.



Gas Safety Guidebook

Environment

Actively working toward an expanded and full use of natural gas in order to build a carbon neutral society with a low carbon footprint

Promotion of high-efficiency natural gas applications

Rather than simply generating heat, natural gas can be used for a wide range of applications such as generating electricity (in gas cogeneration systems), cooling/heating, and powering natural gas vehicles.

Comparison of energy utilization efficiency

Most heat generated by power stations is discarded. Power transmission losses also occur during transmission to far away homes. Using our "Ene-Farm" household fuel cell (a household gas cogeneration system) allows users to create energy at the same location as where it is used, reducing losses and enabling effective use of waste heat. With an expected energy utilization efficiency of around 80 to 90%, it has superior energy savings and environmental friendliness.



Promotion of a full use of natural gas (residential use)

While working to spread the use of natural gas, we are creating initiatives that can further conserve energy, reduce CO₂, and expand the use of ZEH* (net zero energy houses) to improve the standard of living for all people. These initiatives include promoting the full utilization of energy and using natural gas to compensate for fluctuations in the output of renewable energy sources such as solar power.

The spread of highly efficient household equipment

* ZEH: Home with an annual primary energy consumption balance of +/- zero.



Eco-Jozu (Cumulative sales of 61,912 units)

(As of March 31, 2021) This highly efficient water heater uses condensing technology to take advantage of previously unutilized waste heat in order to raise thermal efficiency from 80% to 95%

(Cumulative sales of 3,155 units) (As of March 31, 2021)

An "Ene-Farm" is a device that reacts hydrogen extracted from sources such as natural gas with oxygen in the air to generate electricity. The heat from this chemical reaction is then utilized to make hot water. When compared with conventional water heating systems, this cutting-edge highly energy efficient power generation and water heating system can reduce annual CO2 emissions in standard homes by around 1.2t to 2.1t.

High efficiency water heater "Eco-Jozu"



Made by company "A" (Polymer electrolyte type)



Promoting the transition to new types of fuel (industrial use)

Around 50% of our natural gas sales at Hiroshima Gas are for industrial customers. The transition from petroleumbased fuel to natural gas enables a 25% reduction in CO_2 emissions.



Promotion of a full use of natural gas (commercial use)

Promotion of gas heat pumps (GHP) and gas absorption chillers (natural chiller)

Gas heat pumps and gas absorption chillers for gas-powered air conditioning systems have a big impact in cutting summer and winter peak power demand.





Gas heat pump (GHP)



Gas absorption chiller (Natural chiller)

Expanded utilization of renewable energy

Kaita Power Station (a power station using biomass co-firing technology), which is part of Kaita Biomass Power Co., Ltd. founded in October 2017, started operating in April 2021. Our business operations here will focus on utilizing timber offcuts and other unused wood from Hiroshima Prefecture as well as woody biomass imported from abroad. Additionally, Hiroshima Gas Shiwahori Power Station (a small-scale hydropower station) in Shiwahori (Shiwa Town, Higashihiroshima City) started operating in June 2021.



Kaita Power Station <Kaita Biomass Power> (Myojinmachi, Kaita Town)

Society

We cherish the connections with our community

Relationship with local communities

As a company that has a strong relationship rooted in the local area, Hiroshima Gas conducts a wide range of social contribution activities.

Promotion of arts, culture, community, and sport

The 34th Hiroshima Symphony Orchestra Concert



(Committee Office, Hiroshima Gas)

Lunch box meals prepared by volunteers

C Educational support (Commitment to the next generation of education)

As part of our efforts to contribute to local communities, we cooperate with government agencies, education committees, schools, businesses, and other organizations with the aim of actively developing next-generation education programs.



Lifeline disaster prevention class

[Energy and environmental education] Science shows, Technical Research Institute science experiment lessons [Disaster prevention education] Lifeline disaster prevention classes [Food education] Tasting classes, Eco-cooking* classes

Children cafeteria "Egao Shokudo" for the Benefit of Communities

Note: "Eco-cooking" is a registered trademark of Tokyo Gas Co., Ltd.

[Fire education] Fire education classes



Next-generation educational programs pamphlet

Management philosophy

Striving to be a company trusted by the community

Based on our management philosophy that aims to create a company that is trusted by the local community, Hiroshima Gas wishes to continue carrying out business activities emphasizing on the stable supply of energy and ensuring the safety of all as our corporate social responsibility.

Capital:



Head office 2-7-1, Minamimachi, address: Minami-ku, Hiroshima TEL 082-251-2176 Established: October 1909 5.203 billion yen Number of 685 employees:

Business field: 1 Gas business

2 Sales of gas appliances 3 Sales of liquefied natural gas

(As of March 31, 2021)



Regional service representatives

O Gaslite	Business hours: 9:00am to 5:30pm (Monday to Saturday)
Gaslife Hiroshima	1-30, Minamitakeya-cho, Naka-ku, Hiroshima
2 Gaslife Aki	3-1-14, Funakoshiminami, Aki-ku, Hiroshima
3 Gaslife Itsukaichi	2-7-43, Kairoen, Saeki-ku, Hiroshima
4 Gaslife Gion	5-13-1, Nishihara, Asaminami-ku, Hiroshima
5 Gaslife Kure	1-6-16, Chuo, Kure
6 Gaslife Onomichi	3-2, Tenma-cho, Onomichi
Z Gaslife Kabe	9-13-7, Kameyama, Asakita-ku, Hiroshima
8 Gaslife Saijo	4-38, Saijogojo-cho, Higashi-hiroshima

0570-550-720

All Gaslife * If you cannot use the Navi-Dial service (e.g., if you are using an IP phone or calling from abroad), please dial 082-240-8891 [Reception hours] Monday to Saturday (national holidays excluded) from 9:00am to 7:00pm [Closed] Sundays, national holidays, year-end and New Year holidays (December 31 to January 4)

Overview of main subsidiaries

Hiroshima Gas Propane Co., Ltd.

·Capital: 300 million yen •Established: March 1969 •Sales: 9,608 million yen •Number of employees: 91

Hiroshima Gas Techno-Service Co., Ltd.

·Capital: 80 million yen ·Established: June 1998 ·Sales: 9,884 million yen ·Number of employees: 204

Hiroshima Gasmate Co., Ltd.

·Capital: 20 million yen ·Established: April 1975 ·Sales: 913 million yen ·Number of employees: 149

Hiroshima Gaslife Co., Ltd.

·Capital: 15 million yen ·Established: June 2018 ·Sales: 3,560 million yen ·Number of employees: 157

Be-Smile Co., Ltd.

stores

·Capital: 50 million yen ·Established: June 2001 ·Sales: 181 million yen ·Number of employees: 25

Setouchi Pipeline Co., Ltd.

·Capital: 150 million yen ·Established: May 2003 ·Sales: 1,104 million yen ·Number of employees: 12

HG LNG Shipping Corporation

·Capital: 1 million yen ·Established: February 2005 ·Sales: 3,493 million yen

Hiroshima Gas Co., Ltd.

2-7-1, Minamimachi, Minami-ku, Hiroshima 734-8555 Public Relations Office, General Affairs Dept.: 082-252-3000 (Direct line) * Some of the photos included in this publication were taken before the COVID-19 pandemic.

○ Showroom

Experience the latest gas equipment and the sheer warmness provided by gas.

Examples of exhibition equipment

 Household fuel cell (Ene-Farm)
Floor heating and bathroom heater comparison rooms • Try it! Kitchen activities (Kitchen comparison) Solar power generation



Gastopia Center 1-30, Minamitakeya-cho, Naka-ku, Hiroshima TEL: 082-240-8888



Gastopia Gion 5-13-1, Nishihara, Asaminami-ku, Hiroshima TEL: 082-850-3506



Gastopia Kure 1-6-16, Chuo, Kure TEL: 0823-22-1262



Gastopia Itsukaichi 2-7-43, Kairoen, Saeki-ku, Hiroshima TEL: 082-923-5678



Gastopia Aki 3-1-14, Funakoshiminami, Aki-ku, Hiroshima TEL: 082-821-1130



Gastopia Onomichi 3-2, Tenma-cho, Onomichi TEL: 0848-22-2161





https://www.hiroshima-gas.co.jp/english/index_e.htm