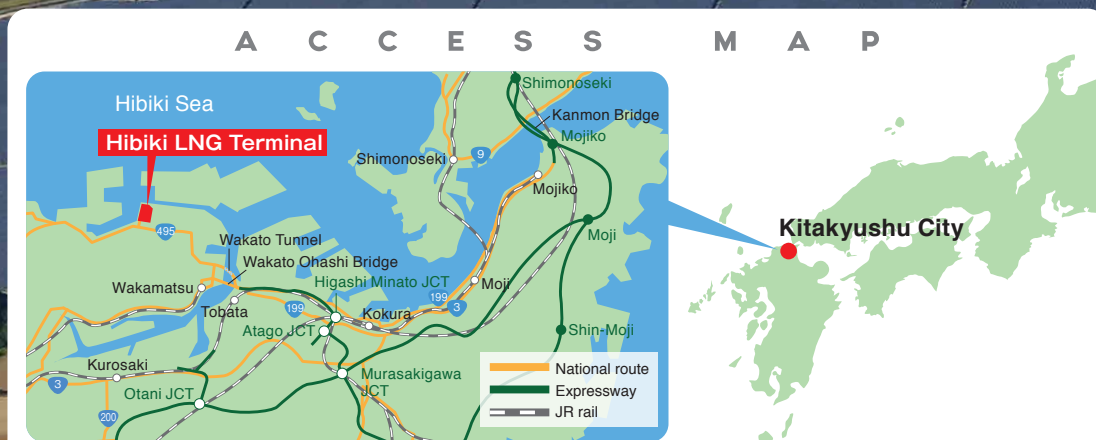
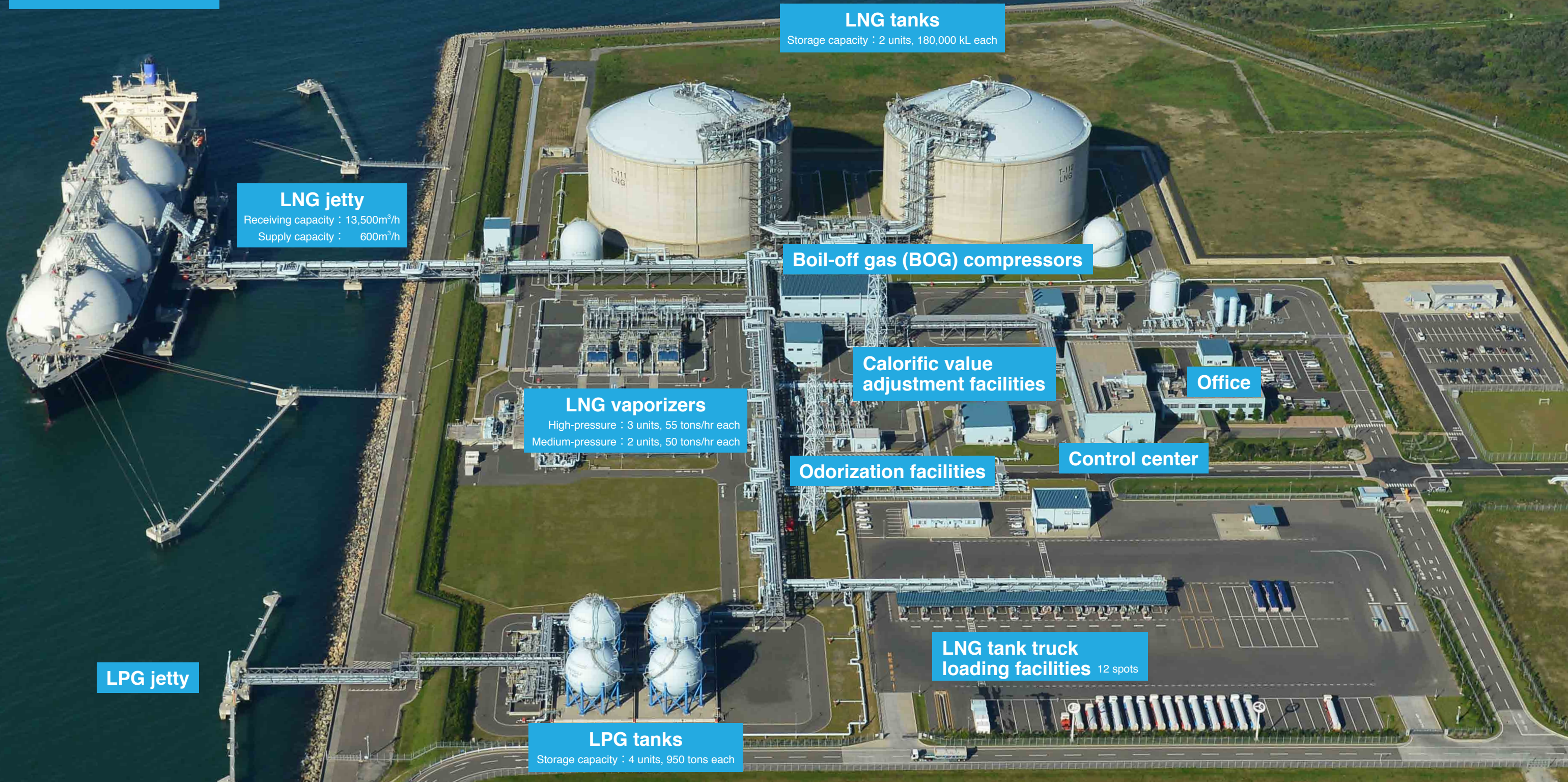


Natural gas, from the lush green environment
of the Hibiki Sea coast

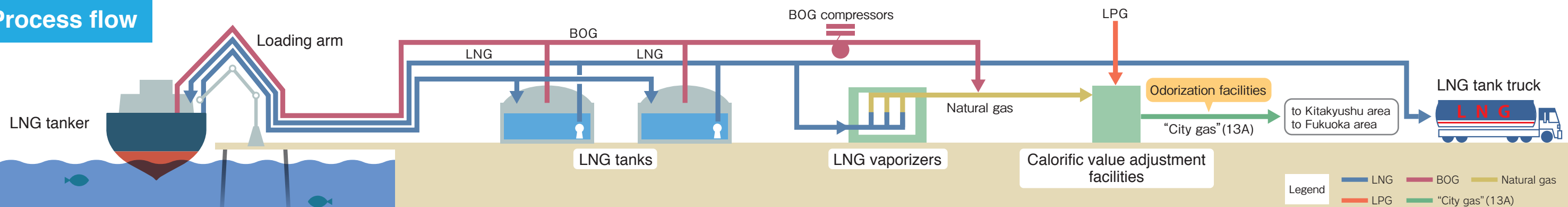
Hibiki LNG Terminal



Major facilities



Process flow



We aim to develop the region and realize a low-carbon society, as an energy supply base in northern Kyushu.

Natural gas supply base for northern Kyushu

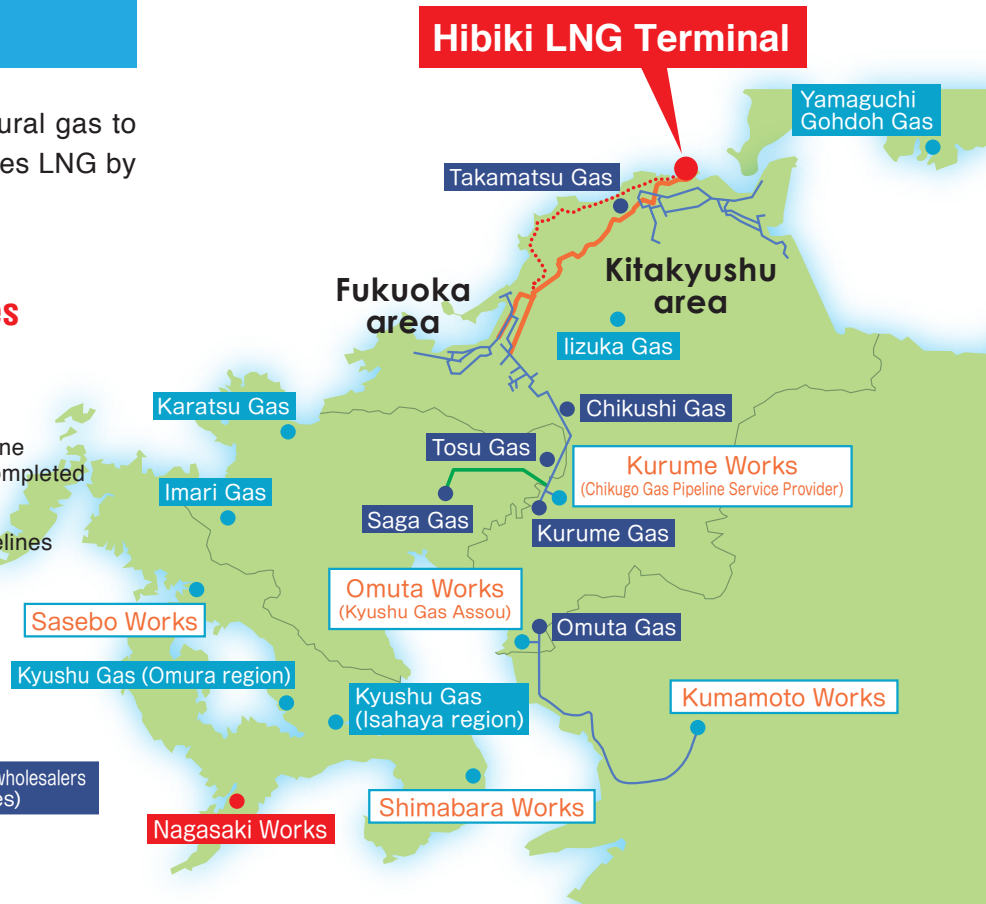
The Hibiki LNG terminal supplies natural gas to various areas by pipelines also supplies LNG by tank trucks to areas without pipelines.

Natural gas supply by pipelines (About 900,000 households)

- Saibu Gas high-pressure pipeline
- Saibu Gas northern Kyushu trunk pipeline (under construction; scheduled to be completed in 2020)
- Major Saibu Gas medium-pressure pipelines
- San-Ai Oil Saga pipeline

LNG supply by tank trucks (About 200,000 households)

- Saibu Gas Group Works (tank trucks)
- Saibu Gas Group wholesalers (pipelines)
- Saibu Gas wholesalers (tank trucks)



LNG transport by tank trucks

To ensure safe and stable LNG supply to industrial users and gas companies, the facility is provided with 12 loading facilities for LNG tank trucks, making it one of the largest facilities of its type in Japan.



LNG tank trucks



LNG tank truck loading facilities

Disaster countermeasures

Tsunami countermeasures

- The official prefectural estimate for maximum tsunami height is 3.1 meters, but the site is protected by a dike rising to 7 meters above sea level, topped by a protective forest, stretching around the entire 2300-meter perimeter of the site.
- To further minimize the effect of flooding, major facilities are mounted on raised foundations.
- Power is provided by two separate lines from the commercial power grid, along with a dual-fuel emergency power generation facility. A mobile generator can also be connected to the terminal power system if other supplies are inoperable.

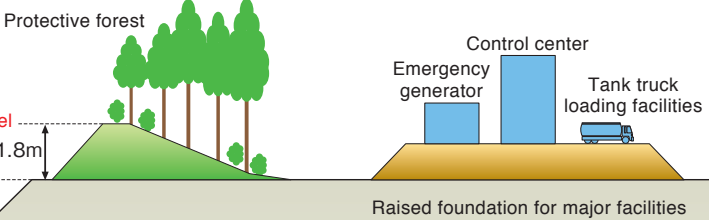


Dike

The entire site is surrounded by a dike rising to 7 meters above sea level, although the maximum estimated tsunami height is only 3.1 meters, with a protective forest growing on top of it.

Max. estimated tsunami 3.1m above sea level

Protective dike: 7.0 m above sea level
Site ground level: 5.2 m above sea level



Earthquake countermeasures

Earthquake countermeasures such as adopting a seismic isolation structure are taken in the Central Control Room and Control Machine Room.



Central Control Room

LNG tanker gas testing and cool-down facilities

LNG can be supplied for LNG tanker gas testing and cool-down.

Max. vessel size

Tank type	Membrane type	Moss type	Moss type (continuous tank cover)	SPB type
Tank capacity	217,330m³	177,000m³	180,000m³	165,000m³
Total length	315.0m	300.0m	297.5m	299.9m
Width	50.0m	52.0m	48.9m	48.9m
Full load draft	12.0m	11.5m	11.5m	11.5m

(LNG tanker channel depth: 14 m)

Supply capacity

Equipment	Capacity
LNG loading facility	600m³/h

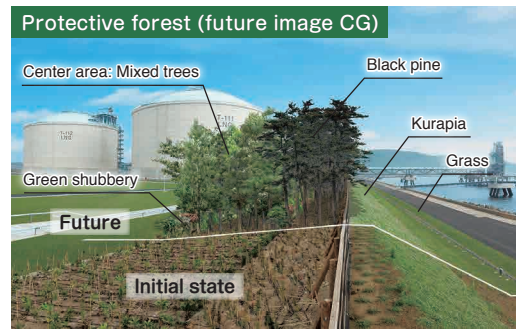


Loading arm

We aim to become an environmental symbiosis base where people, nature and society are harmonized in a rich nature environment.

Coexistence with nature

Oak seedlings, nurtured from acorns collected by the employees of the Saibu Gas group, together with their families and other volunteers, and other trees have been planted to create the Hibiki forest, with about 120,000 trees. Oak saplings nurtured on the facility nursery are also provided to greenery events in the community.



Protective dike



Seedling nursery



Planting Festival (planting scene)



Planting Festival (group photo)

Coexistence with society

Hibiki Acorn Park

The park is built around the harmony of nature and the base, and is open to the general public for leisure and relaxation.



Hibiki Acorn Park (full view)



Hibiki Acorn Park
(visiting kindergarteners)

Hibiki Farm

At Hibiki Farm, local kindergarten students and others work together to grow potatoes, sweet potatoes, and other plants. The harvest is donated to cafeteria services for the children of Kitakyushu.



Planting sweet potatoes



Potato harvest



Potato harvest (group photo)

Renewable energy facilities

The Hibiki LNG Terminal makes effective use of renewable energy sources (solar power, wind power, and water power) to generate the electricity used in the offices, working to reduce energy consumption and minimize CO₂ emissions.



Solar power generation and solar heat utilization

Solar power cells and heat collection panels are mounted on the roof of the Office, generating electricity and hot water.



Generating capacity : 28.2 kW



Wind power generation

Wind turbines driven by the strong ocean winds generate electric power.



Generating capacity : 2 units, 5 kW each



Water power generation

A microhydroelectric generator mounted in the seawater discharge from the LNG vaporizer generates electricity from the water flow.



Generating capacity : 7.5 kW

A comprehensive energy supply base

Saibu Gas group are evolving into a comprehensive energy supply base, including LNG terminal, natural gas-fired thermal power plant, and solar power generation.

- LNG terminal area : Hibiki LNG Terminal
- Natural gas-fired thermal power area : Project in planning stage by Saibu Gas
- Solar power generation area : Eneseed Hibiki Solar Power Plant (22.4 MW)



Hibiki LNG Co., Ltd.

Hibiki LNG Terminal

20-1 Koyomachi, Wakamatsu-ku, Kitakyushu-city,
Fukuoka 808-0002
Tel: +81-93-752-2110

Head office: 1-17-1 Chiyo, Hakata-ku, Fukuoka-city,
Fukuoka 812-0044
Tel: +81-92-633-2223

Established: April 1, 2010

Operated: November 1, 2014

Capital: 6 billion yen

Shareholders: Saibu Gas Co., Ltd. 90%,
Kyushu Electric Power Co., Inc. 10%