

Connecting Niigata, Connecting the World, and Creating the Future

The development of oil and natural gas is built on layers of unseen collaboration. As we engage with underground resources, we also engage with people, stepping forward with local communities toward the future. Being together with people in this region—this is the foundation of energy development.

*The Shosanshakudama at the Nagaoka Fireworks Festival is a signature display. It features a massive firework shell, approximately 90cm in diameter and weighing about 300kg, which blooms into a spectacular flower with a diameter of about 650m at an altitude of 600 m.



Kitsunedaira Donguri no Mori (Forest Management) Project

Since 2010, we have conducted forest conservation activities with local residents in the Fudosawa area of Nagaoka City, near the Nagaoka Field Office. Twice-yearly activities foster community engagement and raise environmental awareness among employees, and biodiversity surveys have confirmed the presence of diverse species.



In recognition of these continued efforts, the site was certified in 2025 as a “Nature Coexistence Site” under the Ministry of the Environment’s Act on the Promotion of Regional Biodiversity.



Image provided by : Nagaoka Fireworks Foundation

Nagaoka Fireworks Festival

As an official partner of the Nagaoka Fireworks Festival, we launch the Shosanshakudama*, and light up Nagaoka’s night sky every year, and continue to support the community of Nagaoka.

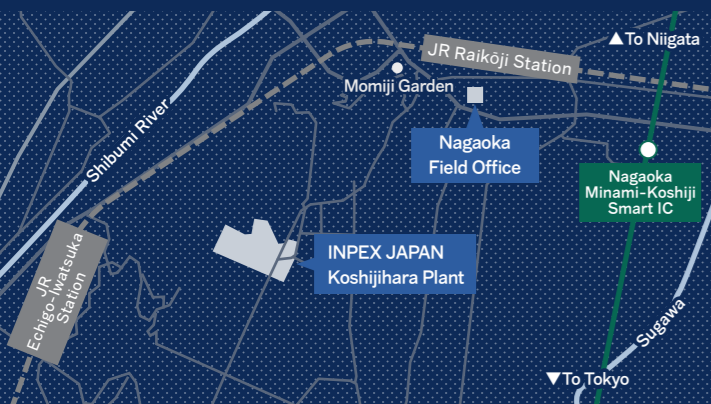


Festival of Lights

A bus tour held during the autumn foliage season, offering the chance to enjoy the vibrant colors of maple leaves. Visitors to the “light” spots are fascinated with the “showcase” of the industry and culture of the Koshiji area. The Koshijihara Plant also participates as one of the featured spots.



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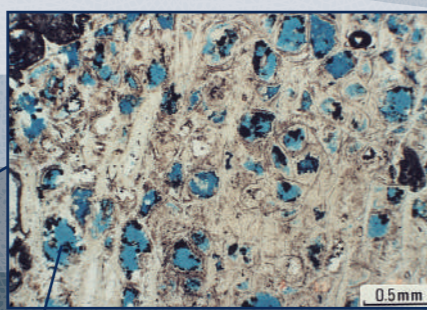
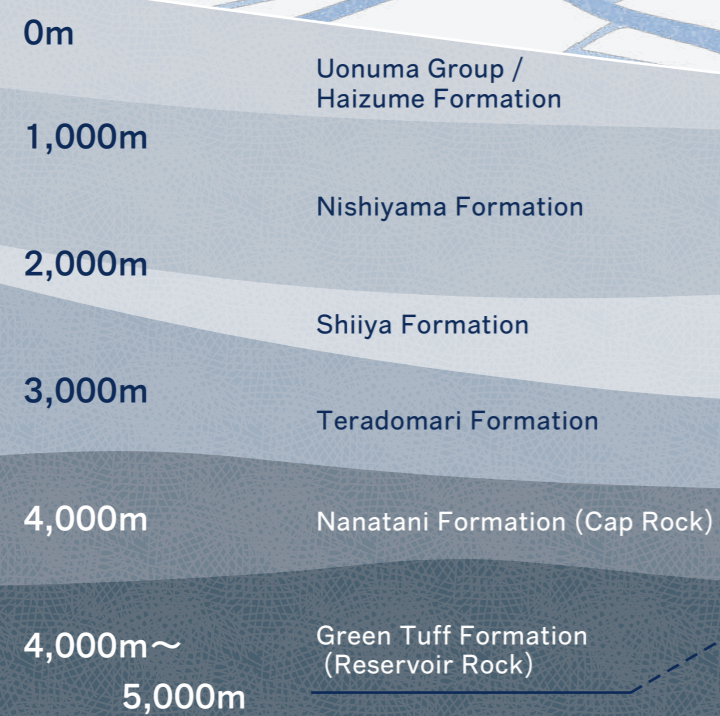
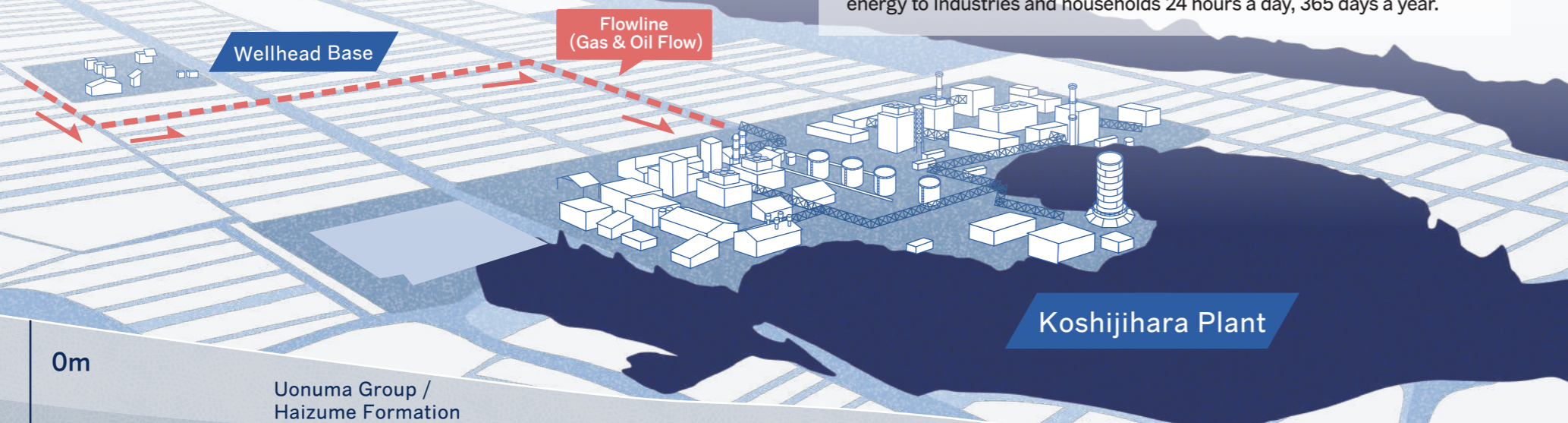
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INPEX
Energy for a brighter future

The Largest-scale production volume and reserves in Japan

Meeting Expectations on Energy Issues

Since the 1950s, we have been developing oil and natural gas in Niigata, discovering the Minami-Nagaoka Gas Field in 1979. Exploratory surveys confirmed it as one of the largest gas fields in Japan. The Koshijihara Plant began operation in 1984, followed by the Oyazawa Plant in 1994, through these efforts, we have established one of the most advanced domestic gas supply networks. Today, we continue to provide stable energy to Industries and households 24 hours a day, 365 days a year.



Microscopic Image of Green Tuff Reservoir Rock

The "Green Tuff Formation," named for its green-colored rock, contains countless tiny pores that store natural gas and oil. A fine-grained Nanatani Formation overlays it, sealing in the gas and oil and forming the gas reservoir.

※Photo : Gas accumulates in the bluish areas.



01 Koshijihara Plant

The Koshijihara Plant has been operating since 1984 and processes up to 4.2 million m³ of gas per day. It produces oil and natural gas while generating power, making it a unique integrated energy hub in Japan.



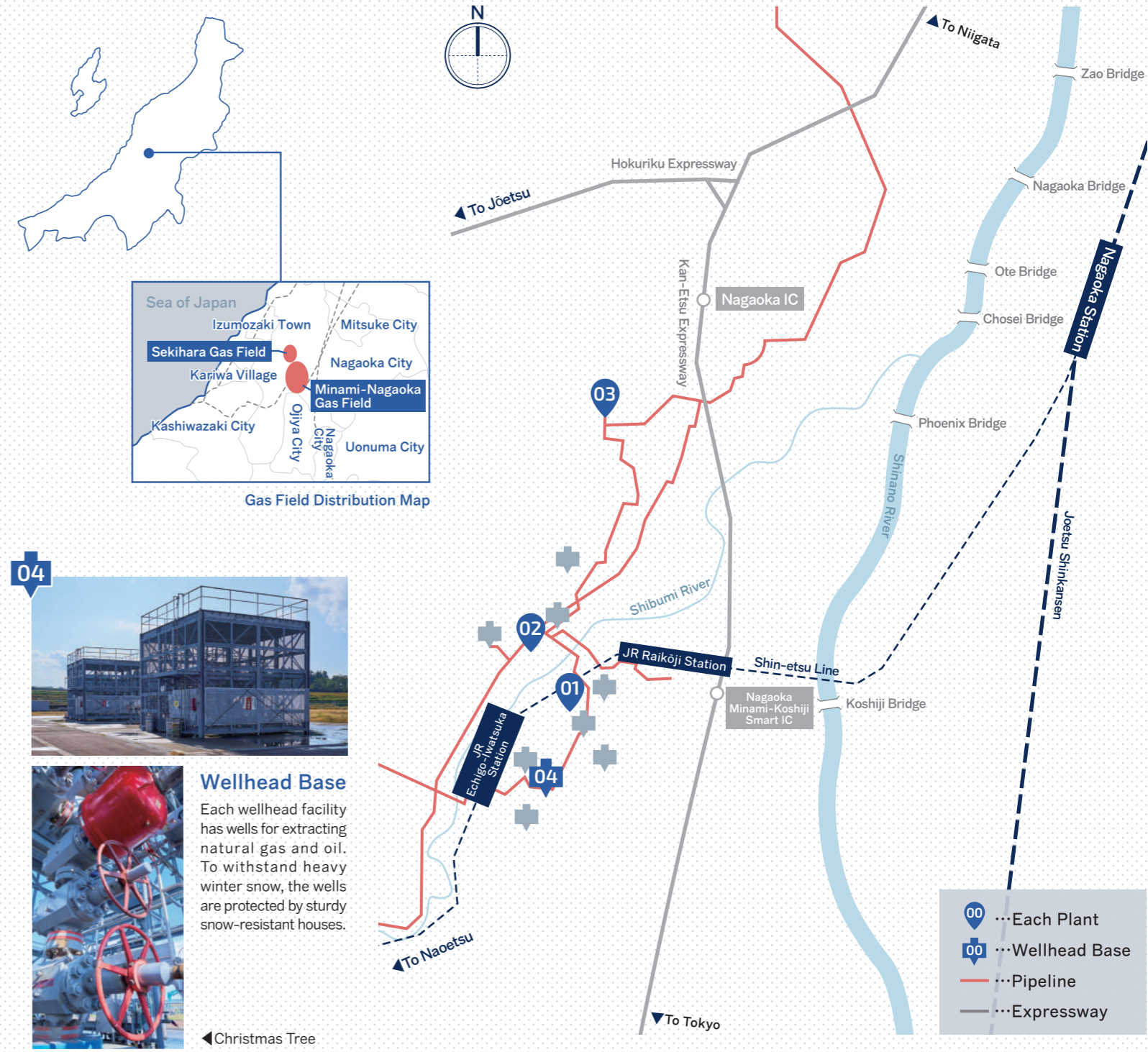
02 Oyazawa Plant

The Oyazawa Plant, operating since 1994, was built after the Koshijihara Plant to ensure a stable gas supply and now processes 1.66 million m³ per day to meet Japan's growing demand.



03 Sekihara Plant

Located north of the Minami-Nagaoka Gas Field, the Sekihara Gas Field uses depleted gas reservoirs for underground natural gas storage. Gas is injected and stored underground, ensuring supply when needed.



04 Wellhead Base

Each wellhead facility has wells for extracting natural gas and oil. To withstand heavy winter snow, the wells are protected by sturdy snow-resistant houses.



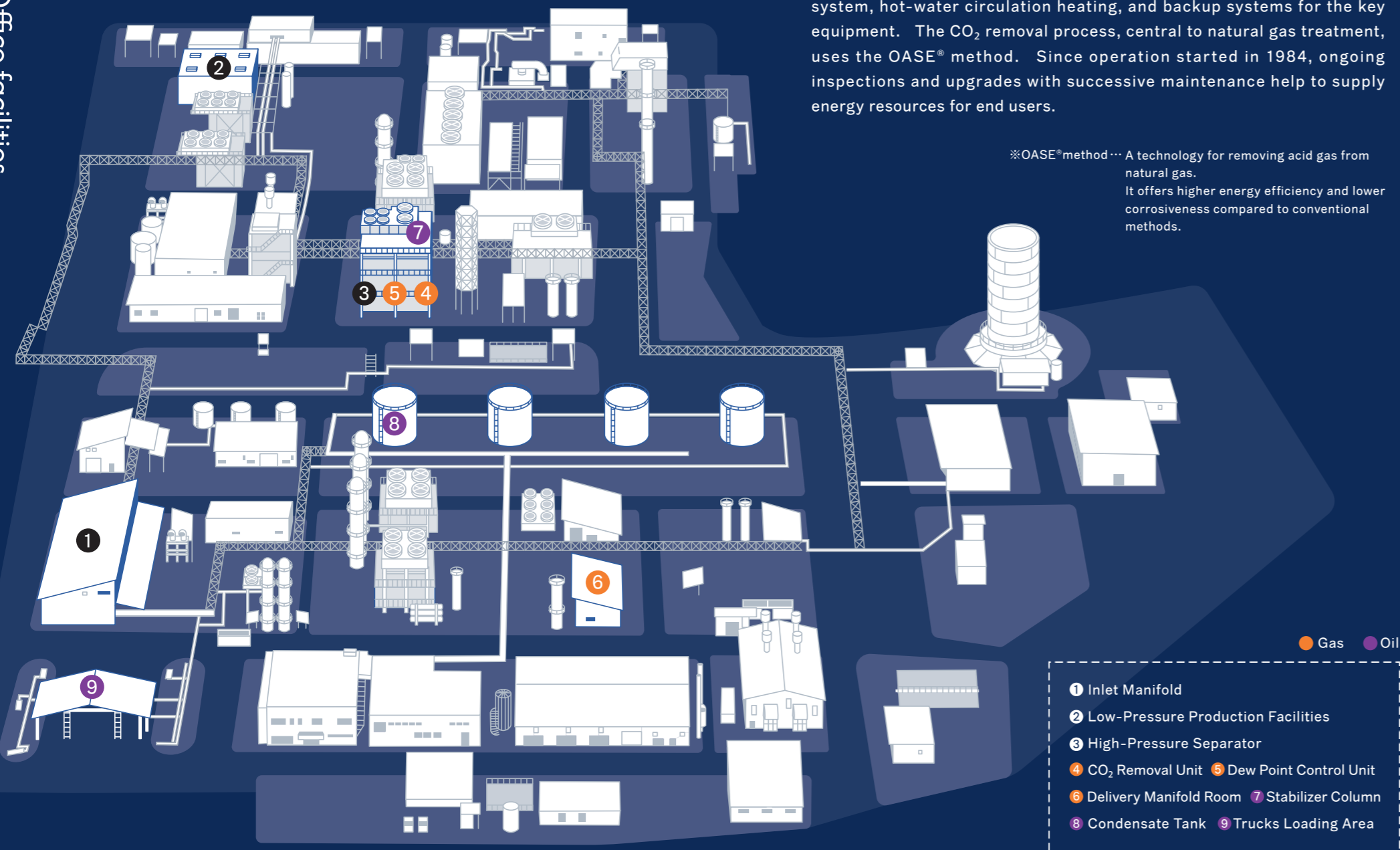
◀Christmas Tree

- 00 ... Each Plant
- 00 ... Wellhead Base
- ... Pipeline
- ... Expressway

Koshijihara Plant

The Koshijihara Plant continues to operate under the heavy snowfall region, serving as a unique integrated energy hub in Japan that handles everything from natural gas and oil extraction to power generation. Its stable operation is supported by a “dual-option” approach: a cogeneration system, hot-water circulation heating, and backup systems for the key equipment. The CO₂ removal process, central to natural gas treatment, uses the OASE® method. Since operation started in 1984, ongoing inspections and upgrades with successive maintenance help to supply energy resources for end users.

※OASE®method ... A technology for removing acid gas from natural gas. It offers higher energy efficiency and lower corrosiveness compared to conventional methods.



Introduction to equipment



1 Inlet Manifold
Collects fluids (natural gas, oil, etc.) sent from the wellhead facilities around the plant.



2 Low-Pressure Production Facilities
Maintains maximum production even as gas field pressure declines.



3 High-Pressure Separator
Separates fluids into natural gas, oil, and water.



4 CO₂ Removal Unit
Removes CO₂ from natural gas using an amine solution.



5 Dew Point Control Unit
Cools and adjusts the dew point of natural gas for safe pipeline transport, preventing liquid buildup inside the pipeline.



6 Delivery Manifold Room
Delivers refined and processed natural gas through pipelines to city gas providers and other end users.



7 Stabilizer Column
Heats and regulates the vapor pressure of oil to allow safe transport by Tanker trucks.

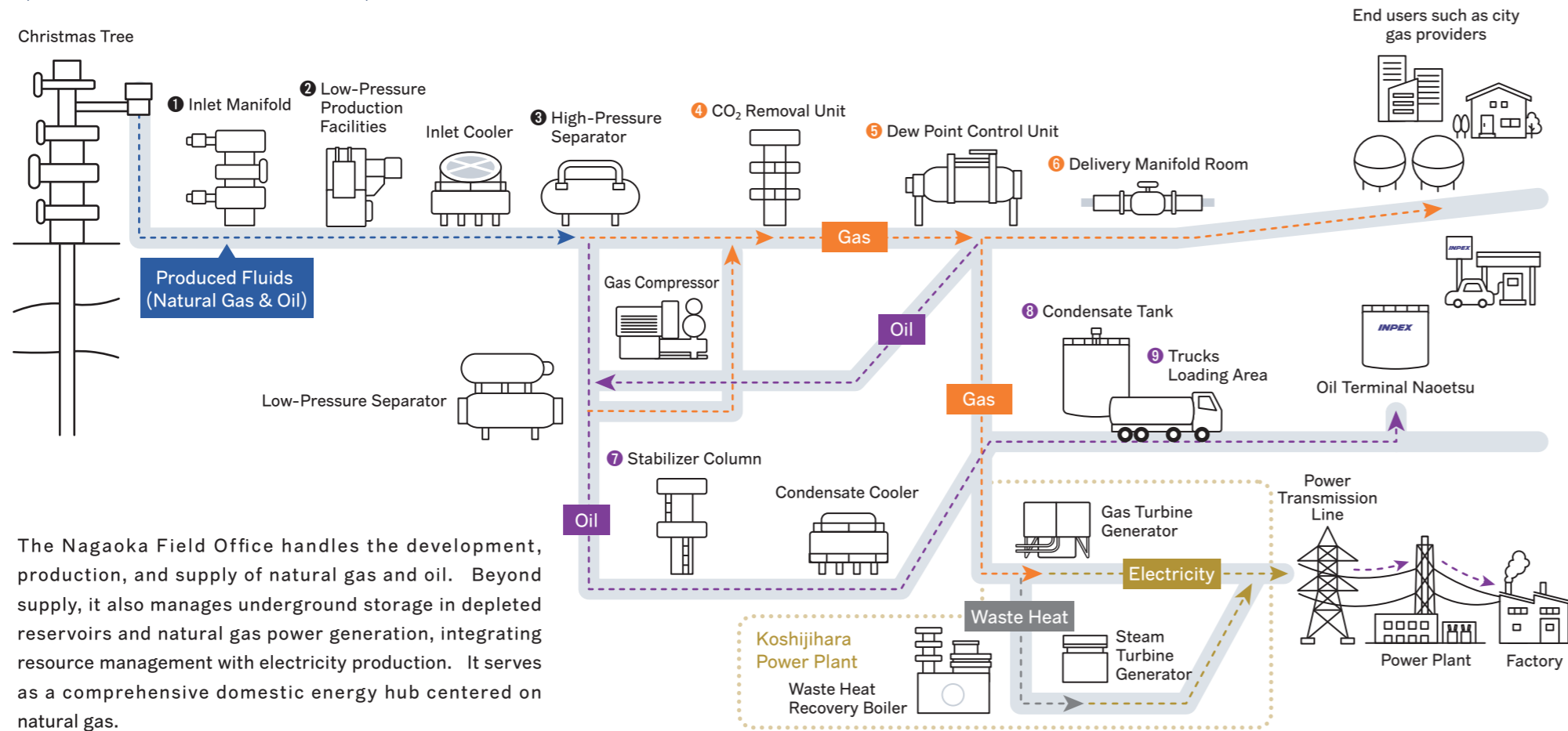


8 Condensate Tank
Stores oil produced at the plant in tanks.



9 Trucks Loading Area
Transports oil to the terminal using Tanker trucks.

Process Flow Diagram of Produced Fluids (Natural Gas & Oil)



The Nagaoka Field Office handles the development, production, and supply of natural gas and oil. Beyond supply, it also manages underground storage in depleted reservoirs and natural gas power generation, integrating resource management with electricity production. It serves as a comprehensive domestic energy hub centered on natural gas.



Plant Control Room

Non-Stop Surveillance System

The control room oversees all plant operations, monitoring and operating equipment across the facility. Backup systems ensure the safety that supply can continue even if equipment maintenance is required.

Gas Pipeline Network

Approximately **1,500 km**

Distance from Niigata to Okinawa

Natural gas from the Nagaoka Field Office supplies Niigata Prefecture and, after merging with vaporized gas from the Naoetsu LNG Terminal and adjusting its calorific value, is delivered to Tokyo and eight surrounding prefectures. Operating nonstop, the pipeline is a vital lifeline for both daily life and industry.

We continue to support Niigata's natural gas flow with the highest standards of safety and reliability.



Naoetsu LNG Terminal

The Naoetsu LNG Terminal in Joetsu City, Niigata. Imported LNG is received, vaporized and adjusted to ensure a stable energy supply by working together with domestic companies.



Inside the Naoetsu LNG Terminal

Pipeline Monitoring Center

Facilities that monitor and control the pipeline network to manage operations.



Oil Terminal Naoetsu

Centered in the Shin-etsu region. The terminal delivers six types of petroleum products—from high-octane gasoline to Type-A Fuel Oil—to our service station and customers.