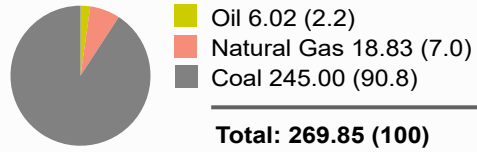


Japan • Fossil fuels

Conventional proved reserves by fuels, Million tonnes of oil equivalent (%):



Sources: Based on the U.S. EIA 2021 data (Dec 2021) (oil, natural gas); BP Statistical Review of World Energy 2021 (coal).

Natural gas storages:

- 1 Katakai
- 2 Kumoide
- 3 Nakajo
- 4 Sekihara
- 5 Shiunji



Key oil extraction basins:

- 1 Yufutsu
- 2 Ayukawa & Amarume
- 3 Iwafune-Oki
- 4 Sarukawa
- 5 Yahashi (Hachihashi)

Oil refinery over 150 000 bpd, bpd:

- 1 Mizushima, JX Nippon, 380 200
- 2 Negishi, JX Nippon, 270 000
- 3 Kawasaki, Tonen General, 258 000
- 4 Yokkaichi, Showa Yokkaichi, 255 000
- 5 Kashima, Kashima Oil, 252 000
- 6 Chiba, Cosmo Oil, 220 000
- 7 Chiba, Idemitsu, 200 000
- 8 Aichi, Idemitsu, 175 000
- 9 Hokkaido, Idemitsu, 160 000
- 10 Sakai, Tonen General, 156 000
- 11 Chiba, Kyokuto, 152 000

Key natural gas extraction basins:

- 1 Yufutsu
- 2 Iwafune-Oki
- 3 Higashi-Niigata
- 4 Katakai & Yoshii
- 5 Minami-Nagaoka
- 6 Minami Kanto (Naruto)

Key oil terminals:

- 1 Chiba
- 2 Shibushi
- 3 Yokkaichi
- 4 Yokohama
- 5 Kiire

Key oil storages, million barrels:

- 1 Shirashima, 35.2
- 2 Tomakomai-Tobu, 34.0
- 3 Mutsu-Ogawara, 31.0
- 4 Shibushi, 27.6
- 5 Akita, 23.4
- 6 Kamigotou, 21.4
- 7 Fukui, 17.9
- 8 Kuji, 10.5
- 9 Kushikino, 10.5
- 10 Kikuma, 8.9
- 11 Kiire, 6.3
- 12 Kagoshima, 4.0

LNG import terminals over 500 000 kL, kL:

- 1 Sodegaura, 2 660 000
- 2 Senboku I-II, 1 675 000
- 3 Negishi, 1 180 000
- 4 Futtsu, 1 110 000
- 5 Ohgishima, 850 000
- 6 Kawagoe, 840 000
- 7 Himeji, 740 000
- 8 Niigata (Nihonkai LNG), 720 000
- 9 Chita, 640 000
- 10 Higashi (East) Ohgishima, 540 000
- 11 Joetsu, 540 000
- 12 Himeji LNG, 520 000

Gas-to-liquids plant (GTL), bpd:

- 1 Niigata City, JOGMEC, 500

Dimethyl Ether (DME) plants, t/y:

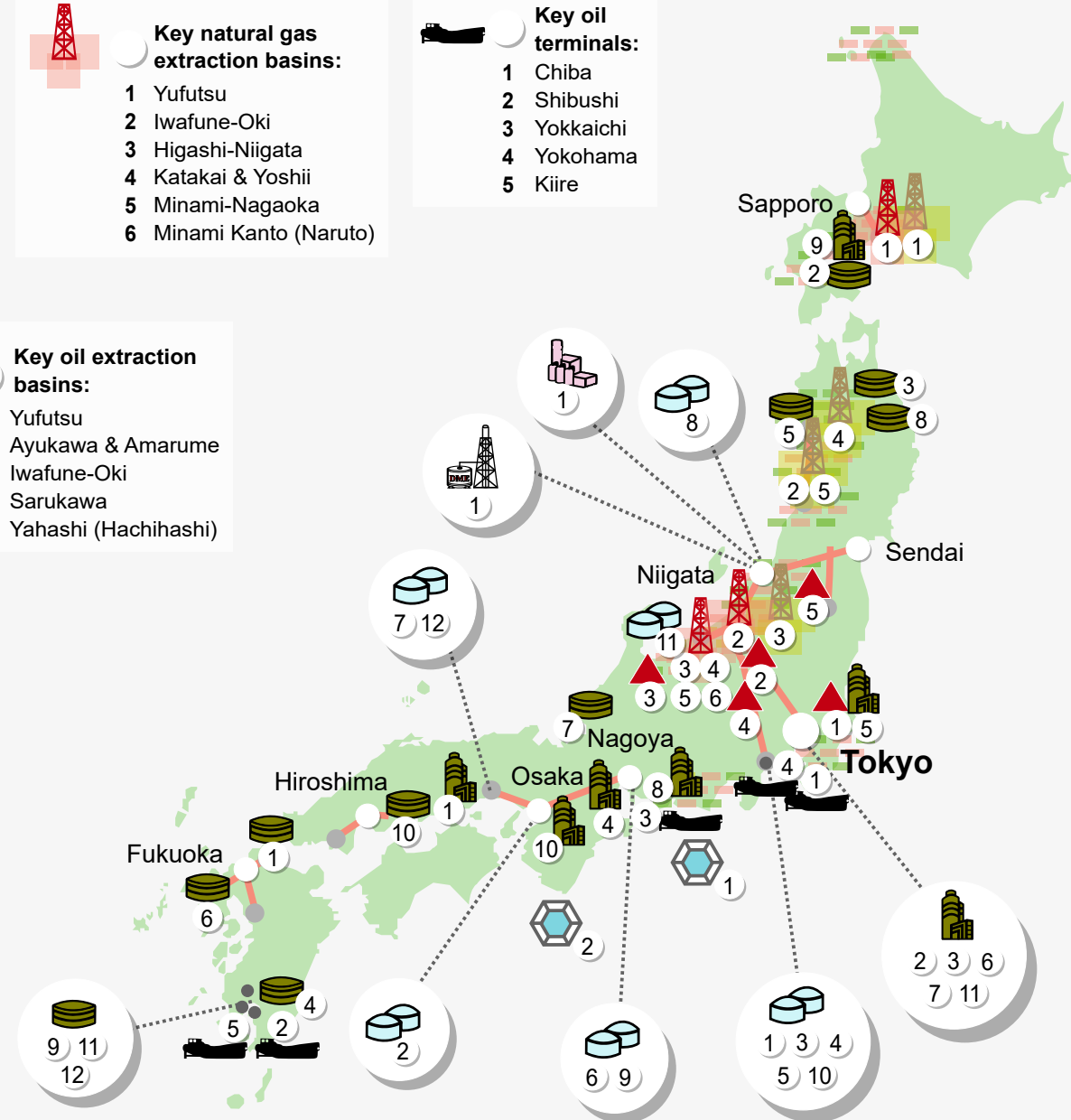
- 1 Niigata, Fuel DME Production Co., 80 000

Major natural gas hydrate occurrences:

- 1 Nankai Trough
- 2 Tokai-oki to Kumano-nada

Oil field

- Crude oil pipeline
- Natural gas pipeline
- Pipeline start/end connection points



As of 2021 Japan had 44.1 million barrels of proved oil reserves, extracted about 122.9 thousand barrels of crude oil per day, 0.7 Tcf of proved natural gas, extracted about 68.1 Bcf of natural gas and 350.0 million tons of hard coal, extracted about 870.7 thousand short tons. Japan's conventional oil infrastructure include 22 operating oil refineries with a total crude oil processing capacity of 3.8 million bpd; some oil terminals and oil storages. There are 174 km of crude oil pipeline. Conventional natural gas – more than 30 LNG import terminals with a total natural gas send-out capacity of 9.7 Tcf/y; 5 underground natural gas storages; some gas processing plants; 4456 km of natural gas pipeline.

Sources: U.S. Energy Information Administration (Dec 2021); OPEC; Central Intelligence Agency; A Barrel Full; Wikipedia et al.