

Making our world more productive



# Gas is just the beginning.

We have the knowledge and experience to meet your offshore demands.



# A safe choice.

Linde aims to help customers reduce costs and improve all operations related to gases and associated equipment.

The offshore industry has found that long-term cooperation with a handful of suppliers is the best way to keep quality up and costs down. And the gas supplier is no exception. Well planned, binding cooperation provides safety and efficiency, which casual suppliers can not offer.

Customer's demands on the gas supplier are high and encompass far more than simply the gases. Their specifications also cover gas-related equipment, ability to deliver, logistics, training and services.

The offshore industry uses gas for many purposes: for cutting and welding, pressure testing and leakage testing, in their own processes, at infirmaries, laboratories and in connection with necessary analyses.

The gases are evaluated on the basis of quality, reliability and delivery. Linde is a safe choice as we can meet your demands.



# Fast and reliable deliveries.

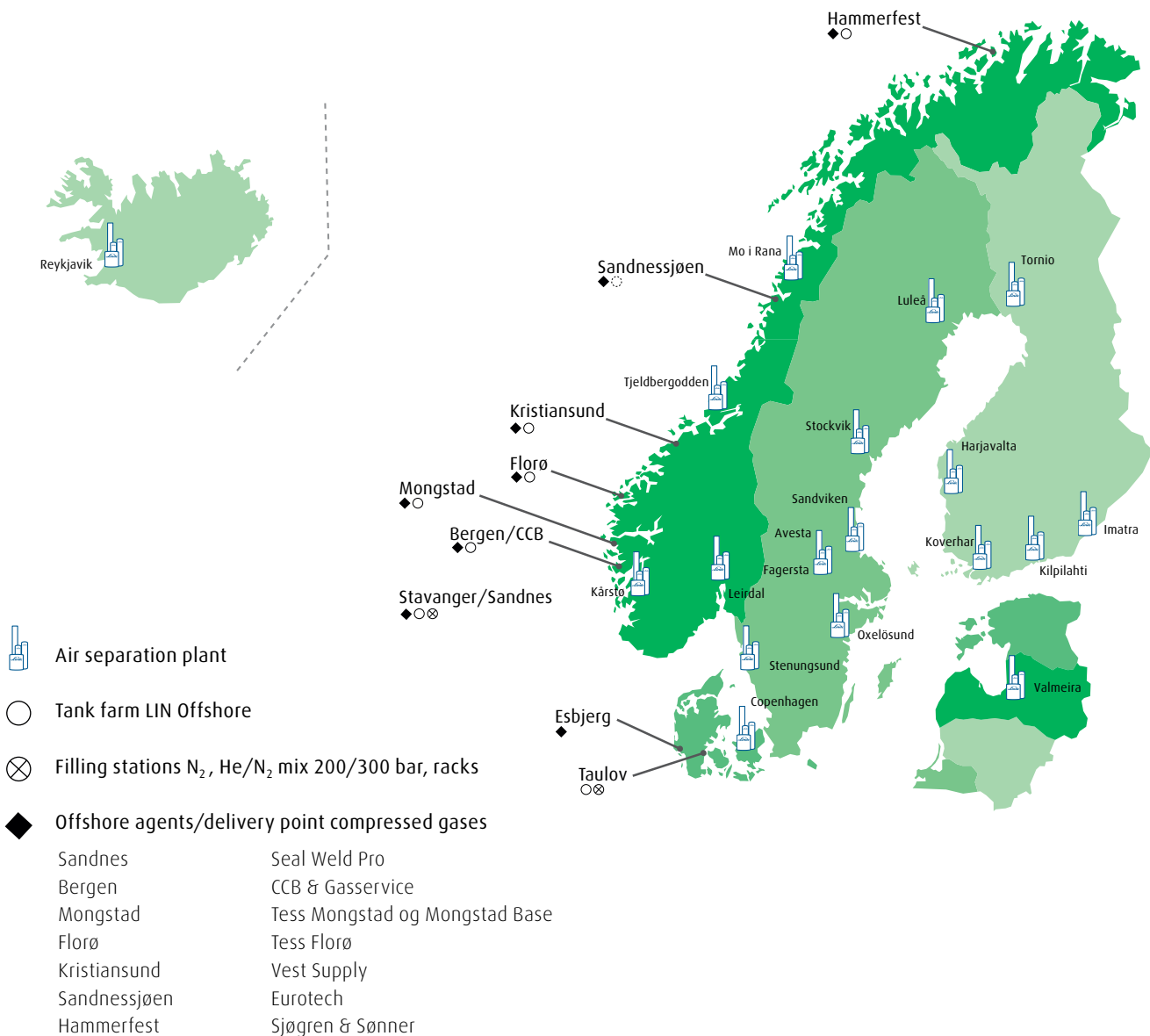
Linde offers solutions to offshore customers along the Norwegian coast and all countries around the North Sea.

Since we are present at every major offshore bases along the Norwegian coast we can promise fast and efficient deliveries to all our offshore customers.

Together with our sister companies BOC in United Kingdom and Linde Gas Benelux in the Netherlands we can deliver the gas related products and services you need within the offshore industry.

Visit our webpage to find your closest agent.

## Supply Chain Linde Region Europe North.



# We offer tanks and racks for various offshore demands.

Linde is represented in the offshore bases in Norway with stationary tanks for liquid nitrogen. We are therefore able to keep a high service level on our nitrogen deliveries and can fill your transportable tank containers within short delivery times.

Linde has for your disposal offshore cryo tanks with nitrogen for short and long term deliveries. Our offshore cryo tanks are approved according to DNV 2.7-1.

Our manifold rack, UNM-16, has capacity of 16 pieces 50 liters (acetylen 41 liters) cylinders connected to one outlet. Argon and oxygen are delivered with cylinder pressure on 200 bar and nitrogen with a cylinder pressure of 200 and 300 bar. Other gases are delivered on demand. 300 bar bundles for nitrogen and nitrogen/helium mixtures are equipped with a NEVOC connection on the outlet. 200 bars cylinders, bundles and racks have outlets according to DIN 477.

The manifold rack, UNM-48, has a capacity of 48 pieces with 50 litre cylinders connected to one outlet. It is available with nitrogen and a nitrogen/helium mix. Cylinder pressure is 300 bar. UNM-64 has a capacity of 64 pieces with 50 litre cylinders connected to four outlets and is available with nitrogen/helium and nitrogen. Cylinder pressure is 300 bar.

Our transport rack has a capacity up to 16 pieces 50 litre (acetylen 41 liters) or 9 pieces of 33 kg propane cylinders or one Maxi propane cylinder. It is also possible to have 12 cylinder onshore packages as an option.

The transportation rack and the manifold racks comply with the following: DNV 2.7-1, EN 12079 and EN 13769, IMO/MSC and IMDG and ADR. All cylinders and racks to be delivered offshore undergo all necessary controls and are audited more frequently than those used onshore. This ensures their correct functioning and optimum safety.







NITROGEN



300

7  
5  
4  
6

RHS

STRIL M  
TÓRS

# Ensure proper equipment with quality.

Linde have a complete range of gas, cutting and welding equipment. The products are intended for welding, soldering, heating and cutting methods, where work is carried out by using fuel gases and oxygen.

We also offer complete equipment kit, where the users have the most common components gathered together in one place. These complete kits make it easier for transportation in service and repair work.

Linde markets a complete range of central gas equipment for industrial gases. A complete system for efficient gas distribution consists of a central gas cylinder manifolds, a distribution pipe work and tapping points.

Linde's mobile maxi cylinder for propane is safe and easier to handle, more efficient to transport and a much better alternative than small cylinders and propane tanks.

At large withdrawals for a limited time, two or more maxi cylinders can be connected in parallel.



# Safety is a crucial part when operating with gas.

At Linde we continuously improve the quality of our products and services to maintain a high level of safety and environmental protection. We offer a range of products and services which contributes to improved safety.

Among these we have our premium gases, MISON® shielding gases and ODOROX® odorized oxygen. MISON® protects the welder from harmful ozone, and in addition often improves both the quality and the productivity. ODOROX® is a product with an odour added to the oxygen so that it smells, and that way potentially risky leakages can be discovered.

You can ensure reliable and high quality gas detections in your working environment and keep your gas levels safe and under control with our G-TECTA® portable gas detection instruments.

There are risks associated with compressed gases, and these risks are not just limited to flammable or toxic gases. Risks are also associated with inert gases through oxygen displacement.

Oxygen enriched atmospheres and danger posed by the weight of and pressure within the cylinders themselves are also associated with risks and these need to be appropriately managed.

We pass on our know-how and experience by offering safety courses for your employees. Linde has specially trained, authorised instructors who professionally perform tailor-made courses at your site, or you can attend one of our open courses. For further details about scheduled courses, visit [www.linde-gas.no](http://www.linde-gas.no).





# Keep track of your gas products.

ICC® Individual Cylinder Control on the units makes it possible to track them, which provides numerous advantages for the users.

The information is stored and processed in an Internet-based system. Our service, ACCURA® gas management, allows you instant access to up-to-date information about your gas cylinders.

Indeed, it simplifies the administration of every aspect of your gas supply, storage, internal distribution, consumption and financial monitoring. It can also help you to minimise your cylinder stock and reduce rental costs.

User friendliness was an important priority in the development of the system, that can be customised to suit your needs. Simply download the information you need, whether it is your current unit status, statistics or other reports. For more information about ACCURA® gas management, ask us for a demonstration.

In addition to this we offer Linde online, which is a single, customized point of information and support. You can place orders and access all the information you require, like your invoice archive and related information, through one user account and one password. Simple and convenient!



# Special needs may require HiQ® specialty gases.

HiQ® is an established international brand of specialty gases within The Linde Group. HiQ® includes an international product range of over 1000 articles to the way customers will experience the service and quality of Linde.

In addition to direct contact with an Account Manager, Linde offers its own centre with professional staff who serve our clients with HiQ® specialty gases needs.

HiQ® specialty gases represent the best and most appropriate there is in the world of high-purity gases, accurate gas mixtures, precision-engineered gas supply system and the high-quality system needed

for optimum results. HiQ® specialty gases are supplied to the highest standard of quality assured by ISO 9001 standards, and Linde has facilities accredited by ISO 17025:2005.

Linde also offers ECOCYL® portable cylinders, which are the world's most compact and refillable 1 litre gas cylinder, featuring a pressure regulator with an integrated flow meter for monitoring the ambient air.

It is widely applicable, for use in maintenance work, leak detection, calibrating equipment or emissions – wherever and whenever you require. It is also suitable for difficult to reach places and ideal for checking your personal protective equipment.



# Profit from our global network of local experts.

When you need the best knowledge and a gas installation to be integrated into your production, we offer complete project management from consulting to design and process from design to start-up. We can do tailor-made customer specific solutions.

Linde offers inspection, service and repair of centralgas systems for industrial gases, medical gases and speciality gases used in the offshore industry. We also do inspection, purging, testing and service on process equipment on transportable tank containers.

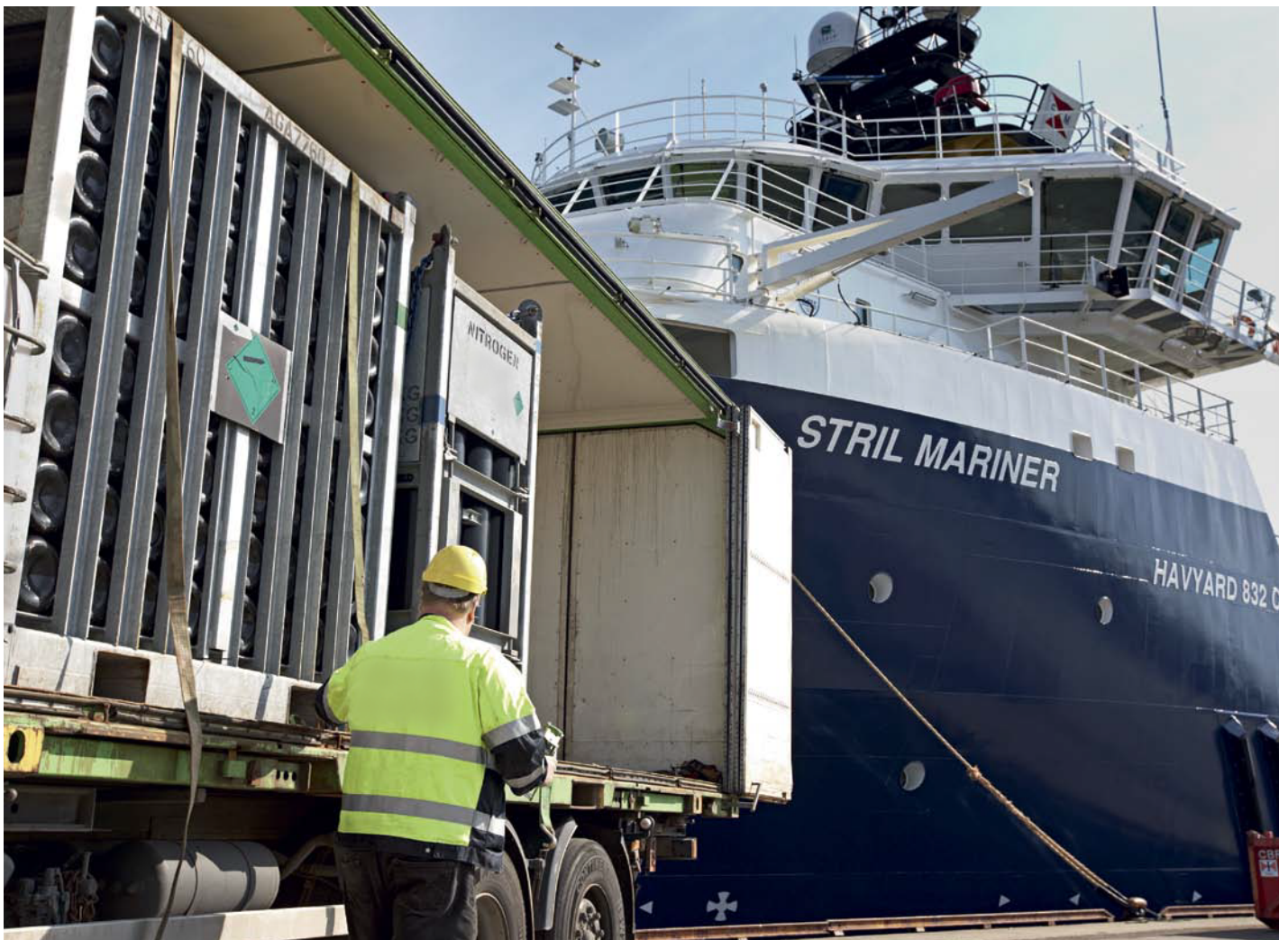
Our highly competent technicians are certified for offshore work. Safety and quality are always our number one priority.

As our gas customer, you can profit from the broad knowledge and competence of our specialised application experts, in all gas consuming processes related to your specific industry.

Continuously increasing efficiency and productivity, while improving quality, are crucial if production processes are to remain competitive.

Linde's application experts are at the forefront of the technological development of gas consuming processes. They can provide valuable expertise that will further improve your processes – often by thinking out-of-the-box. In addition, when serving you they will have our local technology centres, broad global network and global development department at their disposal.

When knowledge of best practices, broad experience and customised solutions can be provided by a partner you can trust, why reinvent the wheel?



# Getting ahead through innovation.

With its innovative concepts, Linde is playing a pioneering role in the global market. As a technology leader, our task is to constantly raise the bar. Traditionally driven by entrepreneurship, we are working steadily on new high-quality products and innovative processes.

Linde offers more. We create added value, clearly discernible competitive advantages and greater profitability. Each concept is tailored specifically to meet our customers' requirements – offering standardized as well as customised solutions. This applies to all industries and all companies regardless of their size.

Linde – Making our world more productive.

## Linde Gas

[www.linde-gas.dk](http://www.linde-gas.dk)

[www.linde-gas.ee](http://www.linde-gas.ee)

[www.linde-gas.fi](http://www.linde-gas.fi)

[www.linde-gas.is](http://www.linde-gas.is)

[www.linde-gas.lt](http://www.linde-gas.lt)

[www.linde-gas.lv](http://www.linde-gas.lv)

[www.linde-gas.no](http://www.linde-gas.no)

[www.linde-gas.se](http://www.linde-gas.se)