

GASCADE

NEL

OPAL

GREIFSWALD LANDING STATION



NATURAL GAS FOR EUROPE



With low emissions and large reserves, natural gas is an important fossil fuel. The aim of OPAL Gastransport GmbH & Co. KG and NEL Gastransport GmbH is to provide a secure supply of natural gas for Europe.

The landing station in Lubmin near Greifswald plays an essential role here. It connects the Nord Stream to the OPAL (Baltic Sea Pipeline Link) and NEL (Northern European Gas Pipeline) connecting pipelines. These bring Russian gas to German consumers and into the European transit network.

The landing station in Lubmin was built by a group of owners. With our partners – Lubmin-Brandov Gastransport GmbH (LBTG), Gasunie Ostseeanbindungsleitung GmbH (GOAL) and Fluxys Deutschland GmbH – we are increasing the security of the gas supply in Europe.

GASCADE Gastransport GmbH is responsible for managing operations at this complex station. GASCADE, NEL Gastransport GmbH and OPAL Gastransport GmbH & Co. KG, all with headquarters in Kassel, belong to BASF and Gazprom.

REDUCING THE PRESSURE



When the natural gas arrives in Lubmin, it has already traveled more than 1,200 kilometers through the Baltic Sea. Nevertheless, the pressure is still high: over 110 bar. This pressure must be reduced in order to transport the gas further.

The natural gas is therefore expanded. Because the rapid cooling can damage the facility, the gas is fed through shell and tube heat exchangers before it is expanded. Here, hot water heats the gas to the extent that it is still at a positive temperature after expanding.

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The station comprises two sections: the “offshore section” for the incoming Baltic Sea pipeline and an “onshore section” for the two downstream pipelines OPAL and NEL. The onshore section is subdivided into a “180 bar” and a “105 bar” section. The “180 bar” section has filters, pre-heaters and control valves, while the “105 bar” section features mainly measuring and control systems.

After the long journey from Vyborg to Lubmin, the gas reaches the landing area of the Baltic Sea pipeline. In the “180 bar” section, the natural gas is first cleaned to remove liquid droplets and dust particles. It then flows into the pre-heating area. Here, water is heated in flame tube boilers, each with a thermal output of 38 MW, or in the CHP facility. The warm water flows into the shell and tube heat exchangers where the natural gas is pre-heated. The water then flows back to the boilers.

Before the gas continues its journey through the OPAL and NEL, it is measured. The measuring systems in the “105 bar” section constantly check the quantity, composition and quality of the gas and record this information. A highly qualified, dedicated team with a wealth of experience in the natural gas transport sector is responsible for maintaining and servicing the station.



CONTACT

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