

# FACTS AND BACKGROUND INFORMATION

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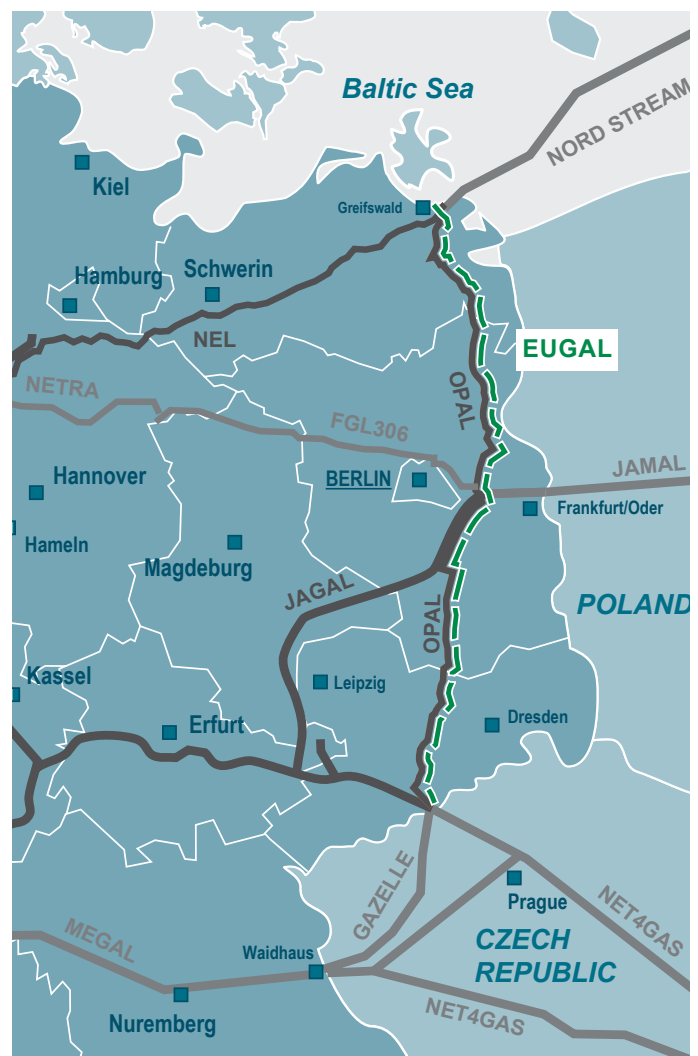
## ●●● FACT SHEET: OVERVIEW OF THE EUGAL PROJECT



### EUGAL – EUROPEAN GAS PIPELINE LINK

The natural gas transport network at the heart of Europe is to be made more robust and flexible: The new EUGAL gas pipeline reliably strengthens the supply of natural gas to Germany and Europe. It will largely comprise two parallel strings and extend over a length of some 480 kilometers, running from the Baltic Sea through Mecklenburg-Western Pomerania and Brandenburg to Saxony and from there over the border to the Czech Republic. The first string should already be completed by the end of 2019, so that natural gas can then start flowing through the EUGAL.

AN OVERVIEW OF EUGAL	
Total length	About 480 kilometers
> Mecklenburg-Western Pomerania	> About 102 kilometers
> Brandenburg	> About 272 kilometers
> Saxony	> About 106 kilometers
Number of strings	Two strings running in parallel as far as Weißbach (Brandenburg), then one string to the German-Czech border
Internal diameters of the pipes	1.40 meters (DN 1400)
Natural gas receiving station	Lubmin near Greifswald (Mecklenburg-Western Pomerania, on the Baltic Sea)
Network connection points	Lubmin (Mecklenburg-Western Pomerania), Kienbaum (Brandenburg), Radeland (Brandenburg)
Export station	Deutschneudorf (Saxony, German-Czech Border)
Compressor station	Radeland (Brandenburg)
Transport capacity / year	Max. 55 billion m <sup>3</sup>
of which ...	45.1 billion m <sup>3</sup> to the Czech Republic*
and ...	9.9 billion m <sup>3</sup> to the West*
	<small>* Capacity expansion based on the results of the binding capacity auctions held on 6 March 2017 on the European capacity platform PRISMA</small>
Maximum operating pressure permitted	100 bar



EUGAL application route (schematic illustration)

Large parts of EUGAL are planned to run alongside the Baltic Sea Pipeline Link OPAL. The fact that it is to run in existing pipeline corridors means the project manager GASCADE can minimize its impact on people, nature and the environment.

## GROWING ENERGY DEMAND REQUIRES ADDITIONAL TRANSPORT CAPACITIES

Europe needs more and more natural gas – to generate heat and power, for industry and for private households. Production from European sources still covers some of these needs. However, gas production in Europe will fall down the road. The European network development plan (TYNDP) for 2017 expects an annual gap in demand of up to 183 billion m<sup>3</sup> by 2035. Additional transport capacities are required to ensure that natural gas will continue to get to where it is needed in the future. The Europe-wide market survey **more capacity** shows at the same time that the long-term transport requirements between Germany and its neighbors are in some cases well above the available capacities (for further information: [www.more-capacity.eu/en/](http://www.more-capacity.eu/en/)). EUGAL closes this transport gap and will ensure that the German and European natural gas network is oriented to demand and more flexible. A reliable energy hub in the middle of Europe.

## EUGAL STRENGTHENS THE EUROPEAN SINGLE MARKET

A long-term secure supply of natural gas for Germany and Europe is of vital importance for our society and hence also a political concern. In Germany, Section 1 of the Energy Act (EnWG) defines the prime objective as being to ensure secure, low-cost, efficient and environmentally friendly access to energy sources for the general public. At European level, the “Europe 2020” strategy defines the approaches for ensuring a secure energy supply within the EU. That requires diversified supply routes with new pipelines that increase supply security throughout Europe and can also cushion temporary peaks at all times. EUGAL will fulfill this important function. It is fully subject to regulation and will optimally connect neighboring European countries. Within Germany, EUGAL can transport gas from the north-east to the south, as well as from west to east. It also connects our European neighbor, the Czech Republic, and its gas network. Countries in Southeastern Europe will be connected with the Northwest European pipeline systems via EUGAL and so can also obtain natural gas from Western Europe.

## DURATION OF THE EUGAL PROJECT: STEP BY STEP

Planning and construction of the EUGAL will take several years. The official approval procedures will be conducted individually in each federal state. The regional planning procedure in Saxony and Brandenburg began in fall 2016. The procedure in Saxony was completed in May 2017 and in Brandenburg in December 2017. In Mecklenburg-Western Pomerania, the responsible authority came to the conclusion that no independent regional planning procedure is required for EUGAL, since it largely runs in parallel to the OPAL pipeline. The planning approval processes occurred from mid-2017 to the fall of 2018 and included extensive participation on behalf of the public. During the second half of 2018, all planning approval notices were issued and construction of the EUGAL commenced. The first string will be set up by the end of 2019 and will then be put into operation. The second string will be built in subsections at the same time. The second string will be fully completed and be able to then start operating around a year later. The project manager GASCADE will ensure a transparent process and open dialog with all stakeholders in all phases.

PROJECT PHASES	SCHEDULE
> Regional planning procedures	> Successfully concluded in 2017
> Planning approval processes	> Successfully concluded in 2018 (fall)
> Construction of the first string	> Mid-2018 to the end of 2019
> Construction of the second string	> Start of 2019 to the end of 2020
> Construction of the natural gas receiving station	> Start of 2018 to the end of 2019
> Construction of the compressor station	> Start of 2019 to the end of 2020

## ABOUT GASCADE GASTRANSPORT GMBH

GASCADE, formerly WINGAS TRANSPORT GmbH, has been planning, building and operating one of Germany’s largest gas pipelines for two decades. GASCADE thus directly connects five European countries with each other and guarantees secure energy supplies in Germany and Europe. GASCADE is owned by the chemical group BASF SE and PAO Gazprom.

## ABOUT THE SHAREHOLDERS

The European gas pipeline link is a joint project between the German transmission system operators GASCADE Gastransport GmbH, Fluxys Deutschland GmbH, Gasunie Deutschland Transport Services GmbH and ONTRAS Gastransport GmbH. GASCADE, as the project manager, holds 50.5 percent of the shares. The three other shareholders each own 16.5 percent of EUGAL. GASCADE will build EUGAL and operate it in the future.

## CONTACT

Would you like more information or to learn more about the current status of planning for EUGAL? Then visit our website: [www.eugal.de](http://www.eugal.de).

If you have any questions, please do not hesitate to contact us:

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