

## Pressemitteilung

### Europäischer Wasserstoff Backbone wächst weiter und stellt Vision für 40.000 km langes H2-Netz in 21 Ländern vor

13.04.2021

- **Zwölf weitere Fernleitungsnetzbetreiber (FNB) aus 11 weiteren europäischen Ländern haben sich Initiative angeschlossen, die jetzt 23 FNB aus 21 Ländern umfasst**
- **Weiterentwickelte Vision für H2-Leitungsinfrastruktur mit 39.700 km**
- **Zwei Drittel des geplanten Netzes bestehen aus umgewidmeten Erdgasleitungen**
- **Investitionskosten pro Leitungskilometer niedriger als in vorigen Abschätzungen**

Die Initiative für einen Europäischen Wasserstoff Backbone, der u. a. auch OGE angehört, stellt heute ihre aktualisierte Vision einer europaweiten Wasserstofftransportinfrastruktur vor. Diese zielt auf die Errichtung eines Wasserstoffnetzes in ganz Europa ab und rechnet bis 2040 nunmehr mit einer Länge von 39.700 km. Auch danach soll das Netz weiter ausgebaut werden können. Der aktuelle Stand des Backbone verbindet 23 FNB und 21 europäische Länder. Die heute vorgestellte Vision basiert auf dem ersten Bericht der Initiative, welcher von einem Netz von 23.000 km in zehn Ländern ausging und dessen Veröffentlichung im Juli 2020 europaweite Aufmerksamkeit erlangte.

#### **Zwei Drittel umgewidmete Leitungen**

Etwa 69 % des geplanten Wasserstoffnetzes werden aus umgewidmeten Erdgasleitungen bestehen. Die restlichen 31 % sind neue Anschlussleitungen für künftige Wasserstoffabnehmer in Ländern mit derzeit kleinen Gasnetzen aber voraussichtlich hohem Wasserstoffbedarf und -angebot.

#### **Geringere Investitionskosten pro Leitungskilometer als in vorherigen Abschätzungen**

Der für 2040 anvisierte Backbone von knapp 40.000 km erfordert Gesamtinvestitionen von ca. 43 bis 81 Mrd. Euro. Die Kosten pro Kilometer liegen dabei unter der ursprünglichen Kostenschätzung des ersten Berichts, da zuvor nur Leitungen mit einem Durchmesser von 48 Zoll berücksichtigt wurden. Dagegen geht der aktuelle Bericht davon aus, dass ein Großteil der heutigen Erdgas- und künftigen H2-Infrastruktur auch kleiner dimensionierte Leitungen umfassen wird. Kleinere Leitungen lassen sich kostengünstiger auf Wasserstoff umstellen, führen aber zu etwas höheren Transportkosten pro Kilometer. Ein Transport von einem Kilogramm Wasserstoff über 1.000 km würde damit im Durchschnitt 0,11-0,21 Euro kosten. Dies macht den Europäischen Wasserstoff Backbone weiterhin zu einer kostengünstigen Option für den Transport von Wasserstoff über weite Strecken.

#### **Stabiler Regulierungsrahmen erforderlich**

Die im aktuellen Bericht enthaltenen Infrastrukturkarten für die Jahre 2030, 2035 und 2040 spiegeln die Vision der 23 an der Initiative beteiligten FNB wider. Diese hatten untersucht, mit in welchen infrastrukturellen Ausbausritten die Dekarbonisierungsziele erreicht werden könnten. Die Transportwege und Zeitpläne werden mit den Karten jedoch keineswegs endgültig festgelegt. Endgültige Ausgestaltung des Backbones und Zeitplan seiner Umsetzung hängen von den jeweiligen Marktbedingungen für Wasserstoff und Erdgas sowie von der Schaffung eines stabilen Regulierungsrahmens ab.

„Europa muss rasch eine eigene Leitungsinfrastruktur für Wasserstoff aufbauen. Der neue Bericht zeigt mit einer klaren Roadmap, wie das funktionieren könnte“, so Prof. Ad van Wijk, Autor des 2x40 GW Elektrolyseur-Plans und Berater von Hydrogen Europe.

„Wir sind froh, dass sich elf neue Länder der Initiative für einen Europäischen Wasserstoff Backbone angeschlossen haben. Unser aktueller Bericht zeigt, dass eine wirklich paneuropäische, überwiegend auf umgewidmeten Erdgasleitungen basierende Wasserstoffinfrastruktur möglich ist“, so Daniel Muthmann, Koordinator der Initiative und Leiter des Bereichs Unternehmensentwicklung, Strategie, Politik und Kommunikation bei der OGE.



Der Bericht kann hier abgerufen werden: [www.gasforclimate2050.eu/publications](http://www.gasforclimate2050.eu/publications)

Für weitere Informationen wenden Sie sich bitte an:

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**Creos Luxembourg** is a gas infrastructure company based in Luxembourg, operating the national gas transmission system infrastructure.

**Elering** is an autonomous and independent integrated electricity and gas system operator whose primary task is to ensure the security of supply of energy to Estonian consumers. For this purpose, the company manages, administers and develops domestic and cross-border energy infrastructure. With its activities, Elering ensures the conditions for the functioning of the energy market and for the development of the economy.

**Enagás** is a European Transmission System Operator with 50 years' experience in the development, operation and maintenance of energy infrastructures, operating in eight countries. The company has more than 12,000 kilometres of gas pipelines, three strategic storage facilities and nine regasification terminals. In Spain, it is the main natural gas transporter and the Technical Manager of the Gas System. The company has committed to be carbon neutral by 2040 and to projects promoting renewable gases - green hydrogen and biomethane - sustainable mobility and energy efficiency, among other areas. For more information, go to [www.enagas.es](http://www.enagas.es)

**Energinet** was founded in 2004 as an independent public enterprise owned by the Danish Ministry of Climate, Energy and Utilities. Energinet owns, operate and develop the transmission systems for both electricity and natural gas in Denmark. Energinet's aim is to enable a cost-effective transition of the energy system to 100 % renewable energy while maintaining the high level of security of supply. For more information, go to [www.energinet.dk](http://www.energinet.dk).

**Eustream** is the operator of the high-pressure transmission system in the Slovak Republic whose main mission is the transmission of natural gas to Slovakia and through its territory to the European markets. Eustream operates a robust system of 4-5 parallel pipelines, representing an important energy connection between the Russian Federation and the European Union. It is connected to the primary transmission routes in Ukraine, Czech Republic, Austria and Hungary. A new gas interconnection pipeline with Poland will be commissioned in 2022.

**FGSZ Ltd.** is the owner and operator of the Hungarian high-pressure natural gas pipeline system servicing gas distribution companies, power plants and large industrial consumers. The company operates interconnectors with Austria, Slovakia, Ukraine, Romania, Serbia and Croatia, while planning to extend its network towards Slovenia as well. The company is committed to further enhancing its regional connections as well as the security of supply of the Hungarian national gas market, while also investigating the use of hydrogen in natural gas pipelines and reducing its GHG emissions, in line with our currently updated strategic vision. For more information, visit <https://fgsz.hu/>

**Fluxys Belgium** is a Euronext listed subsidiary of gas infrastructure group Fluxys headquartered in Belgium. With 900 employees the company operates 4,000 kilometres of pipeline, a liquefied natural gas terminal totalling a yearly regasification capacity of 9 billion cubic meters and an underground storage facility. As a purpose-led company Fluxys Belgium together with its stakeholders contributes to a better society by shaping a bright energy future. Building on the unique assets of gas infrastructure and its commercial and technical expertise, Fluxys Belgium is committed to transport hydrogen, biomethane or any other carbon-neutral energy carrier as well as carbon dioxide and to accommodate the capture, usage and storage of the latter.

**Gas Connect Austria GmbH** is a natural gas transmission system and distribution system operator, based in Vienna. With 280 employees, Gas Connect Austria operates a modern and powerful high-pressure network centred on the Baumgarten hub, with connections to Germany, Hungary, Slovakia and Slovenia, as well as to storage and production facilities. As a logistics services provider with a strong customer focus, the company is constantly developing its products and services in line with market requirements. Gas Connect Austria is intensively engaged with the issues of the energy transition at national and European level and is actively working on solutions for decarbonising the grids.

**Gasgrid Finland Oy** is a Finnish state-owned company and transmission system operator with system responsibility. We offer our customers safe, reliable and cost-efficient transmission of gases. We actively develop

our transmission platform, services and the gas market in a customer-oriented manner to promote the carbon-neutral energy and raw material system of the future. Find out more: [www.gasgrid.fi](http://www.gasgrid.fi)

**Gas Networks Ireland** operates and maintains Ireland's €2.7bn, 14,500km national gas network. The modern network powers 30% of Ireland's primary energy needs, 40% of the country's heating and 50% of the nation's electricity – more than 85% at peak times. A vital national energy asset, over 705,000 Irish homes and businesses rely on the gas network to provide safe, reliable and affordable energy to meet their heating, cooking, transport and power needs, while the whole country relies on its flexibility and responsiveness to meet electricity demand. By gradually replacing natural gas with renewable, carbon neutral and ultimately zero carbon gases, such as biomethane and hydrogen, Gas Network Ireland is on a journey to delivering a net-zero carbon gas network.

**Gasunie** is a European energy infrastructure company. The company provides the transport of natural gas and green gas via its subsidiaries Gasunie Transport Services B.V. (GTS) in the Netherlands and Gasunie Deutschland in Germany. The company also offers other services in the energy infrastructure field, including hydrogen, heat, CCS, gas storage and LNG. Gasunie commits itself to accelerating the energy transition and to the realisation of a climate neutral energy supply. For more information, go to [www.gasunie.nl](http://www.gasunie.nl).

**GAZ-SYSTEM** is a key player in the natural gas market in Poland as a company of strategic importance to the national economy and energy security. The Company is responsible, inter alia, for the management of the transmission network (11 056 km long) and for the transport of natural gas throughout the country (18.1 bcm without UGS in 2020) together with the LNG terminal in Swinoujscie in order to supply the fuel to distribution networks and to final customers. For more information, please visit the website <https://en.gaz-system.pl>

**GRTgaz** is gas transmission system operator which owns and operates more than 35,000 km of buried pipes and 26 compression stations. GRTgaz is committed to ensuring security of supply to consumers, connecting territories and communities with great care for the environment. GRTgaz delivers innovative and accessible solutions to accelerate and secure a successful energy transition by connecting the energies of tomorrow, driving the growth of renewables and new uses for gas while fostering synergy between electricity and gas systems. For more information, go to [www.grtgaz.com](http://www.grtgaz.com)

**Hellenic Gas Transmission System Operator (DESFA) S.A.** is responsible for the operation, management, use and development of the Hellenic National Natural Gas System. DESFA is a reliable partner in the framework of the ongoing international energy projects in Southeastern Europe. DESFA is committed to support the fulfilment of the National Energy & Climate Plans targets, by planning its energy transition towards the decarbonize economy. For additional information, please visit the following website: [www.desfa.gr](http://www.desfa.gr)

**National Grid Gas Transmission** owns and operates the gas National Transmission System in Great Britain, with day-to-day responsibility for balancing supply and demand. Our network comprises approximately 7,660 kilometres (4,760 miles) of high-pressure pipe, 23 compressor stations and 618 above-ground installations. Today, natural gas keeps 85 per cent of the UK's 28 million homes warm and comfortable, generates electricity and fuels industrial and manufacturing processes. We aim to serve customers well and efficiently, supporting the communities in which we operate and making possible the energy systems of the future.

**NET4GAS, s.r.o.** is the gas transmission system operator in the Czech Republic. Through its network of almost 4,000 km of pipelines, NET4GAS transports around 45 billion m<sup>3</sup> of natural gas per year. As a Central European gas transmission system operator, NET4GAS plays an active role in connecting and integrating European energy markets to the benefit of Czech and other European customers. At the same time, the company participates in shaping the European energy market in the context of the transition to a low carbon economy. For more information, visit [www.net4gas.cz/en](http://www.net4gas.cz/en).

**Nordion Energi**, is specialized in gas infrastructure with the aim to drive the energy transition and becoming the first gas grid in Europe with 100% green gas. We operate the gas grid in Sweden, which extends from Dragör in Denmark to Stenungsund in Sweden and transports energy to distributors and customers with direct links. The gas

grid supplies 33 municipal areas and several combined heat and power plants and is also used in more than 34,000 households and in the transport sector. For more information, go to [www.swedegas.com](http://www.swedegas.com) or [www.nordionenergi.se/en](http://www.nordionenergi.se/en).

**OGE**, seated in Essen, operates the largest German gas transmission system spanning 12,000 kilometres. Two thirds of natural gas consumed in Germany flows through OGE's pipeline system, comprising about 100 compressor units and about 1100 exit points. The OGE strategy 2030+ secures OGE's transmission business for the long run and prepares pipeline network and numerous compressor stations for new gaseous energy carriers OGE actively support the European gas market and work together with the European distribution network operators to create the prerequisites for transnational gas transportation and trading. For more information, go to <https://oge.net/en>.

**ONTRAS Gastransport GmbH** is a national gas transmission system operator in the European gas transport system based in Leipzig. ONTRAS operates Germany's second-largest gas transmission system, with approximately 7,500 km of pipelines and about 450 interconnection points, to ensure the seamless transport of natural gas to our customers. To do so, we link the interests of transport customers, dealers, regional network operators and producers of regenerative gases.

**Plinovodi d.o.o.** is the natural gas transmission system operator in Slovenia. The main operational goal and activity of the company is provision of long-term, reliable, high quality, price competitive and environmentally acceptable transmission of gas. The gas transmission system consists of almost 1,2 thousand km of pipelines. It connects most of the large industry and urban centres with distribution systems in Slovenia. By constantly developing the system and introducing sustainable solutions and technologies, company Plinovodi d.o.o. enables users to access different sources of gas through various transmission routes. For more information, go to <http://www.plinovodi.si/en/>.

**Snam** is an energy infrastructure operator and ranks among Italy's largest listed companies, by market capitalization. The Group has Europe's largest natural gas transportation network (over 41,000 km including its international footprint), a storage capacity of approx. 20 bcm and is a leading player in regasification. In its 2020-2024 strategic plan, Snam has planned 7.4 billion euros in investments and more focus on energy transition businesses such as biomethane, energy efficiency sustainable mobility and hydrogen. The company is committed to achieving carbon neutrality by 2040.

**Trans Austria Gasleitung GmbH** is a transmission system operator in Austria. Its pipeline system connects Baumgarten in Austria with Tarvisio in Italy over a distance of 380 km and has an annual transport capacity to Italy of 30 billion cubic meters of natural gas. The TAG pipeline network consists of around 1,140 km of high-pressure natural gas pipelines from the Slovakian-Austrian to the Austrian-Italian border. Along the route in Austria, the natural gas pipeline also supplies natural gas for consumption. TAG also transports natural gas to Slovenia via the SOL pipeline.

**Teréga** is established in South-West France and has over 75 years of experience in gas transport and storage infrastructure and continues today developing innovative solutions. A true accelerator of the energy transition in France and in Europe, Teréga operates over 5,000 km of pipelines and 2 underground storage reservoirs representing 16% of the French gas transport network and 26% of national storage capacities. Teréga enjoys a strategic position in Europe, thanks to its interconnections with Spain. Teréga aims at accelerating the green revolution enabled by renewable gas, through increasing its involvement in biomethane and hydrogen (including Power-to-Gas). For more information, visit [www.terega.fr](http://www.terega.fr)