

European Hydrogen Backbone

Press Release – 18 January 2022

European Hydrogen Backbone initiative adds six new members and sets its agenda for 2022

Today, the European Hydrogen Backbone (EHB) initiative announces the expansion of its membership base now reaching 29 operators and continues its activities in 2022

Following today's announcement, the EHB initiative is delighted to welcome six additional members: Amber Grid (Lithuania), Bulgartransgaz (Bulgaria), Conexus Baltic Grid (Latvia), Gassco (Norway), Plinacro (Croatia), and REN (Portugal).

By broadening its base, this initiative has now reached 29 energy infrastructure operators covering 27 European countries. All members are united through a **shared vision of a climate-neutral Europe enabled by a thriving renewable and low-carbon hydrogen market.**



Since its inception in 2020, the EHB has contributed to the development of a European hydrogen market through the publications of its flagship EHB maps, with a vision of a pan-European hydrogen transport infrastructure. These network maps and corresponding studies demonstrate how this vision is **both technically feasible and economically affordable**. The initiative's contributions have been well-received by hydrogen market players and policy makers alike. Most recently, the **EHB initiative's technical inputs were referenced several times in the European Commission's hydrogen and decarbonised gas package**, published in December 2021.

In 2022, the EHB initiative will focus its efforts on developing techno-economic assessments of frequently mentioned hydrogen supply corridors, and the potential role of regional cooperation by infrastructure operators in carrying them out. In parallel, the group will be updating, expanding, and digitising its network maps while revamping the EHB website to provide stakeholders easier access to key insights.

Through these activities, the EHB aims to accelerate Europe's decarbonisation journey by defining the critical role of hydrogen infrastructure – based on existing and new pipelines – in enabling the development of a competitive, liquid, pan-European renewable and low-carbon hydrogen market. The initiative seeks to foster market competition, security of supply, security of demand, and cross-border collaboration between European countries and their neighbours.

To find out more about the EHB initiative, visit: <https://gasforclimate2050.eu/ehb/>.

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AB Amber Grid is the operator of Lithuania's natural gas transmission system and is in charge of transmission of natural gas (transportation of natural gas through high pressure pipelines) to system users, and operation, maintenance and development of natural gas transmission system. Amber Grid started its operations on 1 August 2013, when the fixed-term natural gas transmission licence (issued to AB Amber Grid by the National Control Commission for Prices and Energy) came into effect. On 10 April 2015, Amber Grid was issued with an open-ended gas transmission business license and was designated as the Transmission System Operator. For more information, visit: <https://www.ambergrid.lt/en/>.

Bulgartransgaz is a combined operator performing licensed activities of natural gas transmission and storage. The company operates 3 276 km high pressure gas pipelines and Chiren Underground Gas Storage facility. The company's gas transmission system has interconnections with all neighboring countries – Greece, North Macedonia, Romania, Serbia and Turkey. Bulgartransgaz is continuously developing its infrastructure both for transmission and storage. The ongoing projects for expansion of Chiren UGS, raising cross-border transmission capacities and developing the national transmission network are of utmost importance for the realisation of the Balkan Gas Hub concept. In line with the European and National goals for decarbonization and climate neutrality, Bulgartransgaz is currently developing several projects in the field of hydrogen. For more information, visit: <https://bulgartransgaz.bg/en>

Conexus Baltic Grid (Latvia) is a unified natural gas transmission and storage system operator in Latvia. Company manages one of the most modern natural gas storage facilities in the Europe – Inčukalns underground gas storage, which is an important strategic object in the whole region.

Creos Luxembourg owns and operates electricity (high, medium and low voltage) and natural gas (high, medium and low pressure) networks in Luxembourg. Its mission is to viably ensure energy transportation and distribution via electricity and natural gas grids at transparent rates in the Grand Duchy of Luxembourg. This role is executed equally with respect to all suppliers and by respecting the company's public service and environment protection obligations. Aside from developing and operating its infrastructure, Creos is also committed to bringing markets closer together through more intensive cooperation at the regional level.

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 developing projects promoting renewable gases – hydrogen and biomethane – sustainable mobility and energy efficiency, among other areas. For more information, go to 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.

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/

Gassco is the independent system operator (ISO) for the integrated system for transporting gas from the Norwegian continental shelf to other European countries. This gas transport system consists of 9000 km of subsea pipelines, 3 gas processing plants in Norway, offshore platforms and receiving terminals in the UK, France, Belgium and Germany. Gassco's operatorship confers overall responsibility for running the infrastructure on behalf of the owners to ensure safe and efficiently gas transport to millions of people. Gassco is also the architect for developing new gas infrastructure on the Norwegian continental shelf.

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.

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

Hellenic Gas Transmission System Operator (DESFA) S.A. is responsible for the operation, management, use and development of the Hellenic National Natural Gas System. Being a reliable partner in the framework of the ongoing international energy projects in Southeastern Europe and beyond, DESFA is committed to support the fulfilment of the European energy and climate objectives, contributing to the implementation of the Greek National Energy & Climate Plan and the Greek Hydrogen Strategy, accelerating its energy transition towards a decarbonized economy. For additional information, please visit 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 7,630 kilometres 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. For more information, please visit <https://www.nationalgrid.com/uk/gas-transmission/>.

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 50 billion m³ 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.

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 or 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+ aims to secure 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/enwww.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. For more information, please visit <https://www.ontras.com/de/>.

Plinacro is a natural gas transmission system operator in Croatia. By performing gas transmission as its main activity, Plinacro guarantees safe, reliable and high-quality supply of natural gas from the entry point into the gas transmission system to off-take measuring-reduction stations of gas distributors and direct and eligible customers. Plinacro is in charge of supervision, maintenance, development and construction of the entire gas transmission system, and of other activities necessary for the technical functioning of the system. Today Plinacro operates 2713 km of high-pressure gas pipelines, 1761 km of which is 50-bar and 952 km is 75-bar system, 6 entry measuring stations, 1 entry-exit measuring station at the connection with the Okoli underground gas storage, 157 exit measuring reduction stations and a state-of-the-art National Dispatching Centre, a centre of remote supervision and managing the entire gas transmission system. For more information, visit: <https://www.plinacro.hr/>.

Plinovodi d.o.o. is the 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/>.

REN SGPS comprehends a group of companies holding the energy concessions in Portugal including REN Eletrica, the Portuguese Electricity TSO, REN Gasodutos, the Portuguese Gas TSO, also in charge of the renewable and low carbon gases, REN Armazenagem, the SSO for the Carricho UGS (salt caverns), REN Atlantico, operating the LNG Terminal at Sines and REN Portgas, the DSO operating a gas distribution concession in the north of Portugal. Main Facts & Figures about REN available at https://www.ren.pt/en-GB/quem_somos/facts_and_figures/.

Snam is one of the world's leading energy infrastructure operators and ranks among Italy's largest listed companies, by market capitalization. Through its international footprint, Snam operates in Albania (AGSCo), Austria (TAG, GCA), France (Teréga), Greece (DESFA), Italy, UAE (ADNOC Gas Pipelines) and UK (Interconnector UK) and has started activities in China and India. Snam is also one of the leading shareholders in TAP (Trans Adriatic Pipeline). The Group has the largest natural gas transportation network (over 41,000 km including international assets) and storage capacity (approx. 20 bcm including international assets) among its European peers and is also a leading player in regasification, through the LNG terminal in Panigaglia (GNL Italia) and its stakes in the Livorno (OLT) and Rovigo (Adriatic LNG) terminals in Italy and in the Revithoussa (DESFA) terminal in Greece. Snam also invests in energy transition businesses: biomethane (Snam4Environment), energy efficiency (Renovit), sustainable mobility (Snam4Mobility) and hydrogen. The company also operates in forestation (Arbolia) and is committed to achieving carbon neutrality (Scope 1 and Scope 2 CO₂ eq emissions) by 2040.. For more information, please visit <https://www.snam.it/en>.

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. For more information, please visit <https://www.taggbh.at/>.

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 hydrogen and biomethane. For more information, visit www.terega.fr