



## PRESS RELEASE

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# World first: Veolia, Enagás and Barcelona City Council inaugurate the first sustainable urban cold recovery network at an LNG terminal

- Estelle Brachlianoff, CEO of Veolia, Arturo Gonzalo, CEO of Enagás, and Laia Bonet, Deputy Mayor of Barcelona, today inaugurated the world's first urban network to use the residual cold from a regasification process as a source of sustainable energy for industrial, tertiary and residential use, located at the Enagás LNG terminal in the Port of Barcelona.
- This pioneering project in innovation and energy efficiency promotes decarbonisation and is an example of successful public-private partnership.
- 131 GWh per year of recovered, local, decarbonised and competitive energy, equivalent to the annual consumption of a city like Reus (Tarragona) with more than 100,000 inhabitants.
- 32,000 tonnes of CO2 emissions avoided per year, equivalent to 110 long-haul return flights between Barcelona and New York.
- Veolia and Enagás have signed an agreement to develop business opportunities and adapt the sustainable cold recovery solution for LNG terminals, both in Spain and internationally.
- Veolia has also signed a memorandum of understanding with Mercabarna, Barcelona's wholesale food market and one of the largest in Europe, to study the possibility of providing sustainable refrigeration to the fruit, vegetable and fish markets and to other companies involved in complementary activities (mainly for refrigeration rooms for the preservation of fresh and frozen foods and the air-conditioning of common areas).

On Monday 25 November 2024, **Veolia**, a world leader in ecological transformation, **Enagás**, an international energy operator and Technical Manager of the Gas and Hydrogen System in Spain, and the **Barcelona City Council** inaugurated a **pioneering solution for residual cold recovery**

**installed at the Enagás Liquefied Natural Gas (LNG) terminal at the Port of Barcelona**, the tenth largest port in Europe. This technological innovation is already operational and generates 131 GWh per year of sustainable, low-carbon and competitive local energy.

This innovation will prevent the emission of more than 32,000 tonnes of CO<sub>2</sub> per year, confirming the commitment of Veolia, Enagás and Barcelona City Council to reducing greenhouse gas emissions and transforming the city into a green space.

In the traditional regasification process, liquefied natural gas (LNG) arrives at the terminal by ship in a liquid state at -160°C, and seawater is used to convert the LNG into natural gas at ambient temperature.

Thanks to this new regasification and transport solution based on the innovation of Enagás and Veolia respectively, this residual cold is recovered and used at a temperature of -20°C and **distributed to supply the southern area of Barcelona and part of L'Hospitalet de Llobregat with low-carbon energy.**

This recovered energy is injected at -20°C into the largest district cooling network in southern Europe and directly benefits several important infrastructures located in the area, such as the Fira de Barcelona, the offices of the Regional Government of Catalonia (Generalitat de Catalunya), industrial centres and other tertiary buildings (offices, hotels, shopping centres) and public facilities, as well as residential customers.

Veolia has also signed a memorandum of intent with Mercabarna, Barcelona's food wholesale market and one of the most important food markets in Europe, with more than 600 companies specialising in the distribution, preparation, import and export of fresh and frozen products. Mercabarna is a key player, supplying not only Catalonia but also other areas of Spain and Europe, and with this agreement it will be able to benefit from the residual cold recovered from the Enagás LNG terminal in its seven pavilions in the fruit and vegetable market, the fish market hall and several companies involved in complementary activities in the food sector.

In addition, Veolia and Enagás have signed an agreement to jointly develop business opportunities and replicate the cold recovery, distribution and shipper solution at other LNG terminals, both in Spain and internationally.

With more than 150 regasification terminals worldwide, this unique solution opens up significant prospects for local, low-carbon energy recovery from previously untapped resources. Combining technical expertise and environmental commitment, this project demonstrates the feasibility and relevance of local supply solutions to respond to the global challenges of energy sovereignty and decarbonisation.

The success of this project is the result of the close collaboration initiated in 2009 between Veolia, Enagás, Barcelona City Council and several local stakeholders in Barcelona and L'Hospitalet de Llobregat. Thanks to these synergies, local energy produced from residual cold will increase the competitiveness of local infrastructures, while accompanying the urban and sustainable transformation of the Barcelona port area and its surroundings.

*"In the fight against global warming and the quest for energy sovereignty, we must do all we can to prevent energy losses. As part of our strategic GreenUp programme, the recovery of residual heat and cold is an important part of Veolia's strategy for greening its energy mix. The replicability of this solution is a world first and opens up enormous potential in Europe and internationally. It demonstrates the positive impact of territorial energy solutions on the decarbonisation and competitiveness of territories. I am also delighted to announce today our new partnership agreement with Mercabarna, which will directly benefit from the local energy produced by this technology,"* said Estelle Brachlianoff, CEO of Veolia.

In the words of **Arturo Gonzalo, CEO of Enagás**, *"today we have taken a very important step forward in our commitment to innovation and sustainability in our industrial processes. This is an emblematic sustainable energy project for the city of Barcelona, with generation technology*

developed by Enagás, which will provide access to sustainable and competitive refrigeration for industries and consumers in the area of influence of the Enagás regasification terminal and the Port of Barcelona. Today we have also signed a very important cooperation agreement with Veolia to promote a joint commitment to develop sustainable value creation chains that move towards a carbon neutral economy in Spain and Europe.’

“We are putting innovation at the service of more sustainable and resilient cities. This project is groundbreaking, it puts innovation, energy efficiency, decarbonisation and public-private partnership at the centre, and this allows cities to face the challenges of climate change, challenges that we must turn into the creation of new opportunities”, said **Laia Bonet, first deputy mayor of Barcelona City Council.**

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## ABOUT VEOLIA

The Veolia Group’s ambition is to become the benchmark company for green transformation. With nearly 218,000 employees on five continents, the Group designs and deploys useful and practical solutions for water, waste and energy management that help to transform the world. Through its three complementary activities, Veolia contributes to developing access to resources, preserving existing resources and renewing them. In 2023, the Veolia group supplied 113 million people with drinking water and 103 million with wastewater, produced 42 TWh of energy and recovered 63 million tonnes of waste. Veolia Environnement (Paris Euronext: VIE) generated consolidated sales of €45.3 billion in 2023. [www.veolia.com](http://www.veolia.com)

## ABOUT ENAGÁS

Enagás is a Transmission System Operator (TSO) with 50 years’ experience in the development, operation and maintenance of energy infrastructure. The company has approximately 12,000 kilometres of gas pipelines, three underground storage facilities and eight regasification plants. The company operates in seven countries. In Spain, it is the Technical Manager of the Gas System and has been appointed Interim Manager of the Hydrogen Transmission Network (HTNO) by Royal Decree Law 8/2023. By agreement with the Council of Ministers, Enagás has been entrusted with the development of H2med, the Spanish hydrogen network and associated storage facilities. **In line with its commitment to energy transition, Enagás has announced its target of becoming carbon neutral by 2040, with a firm commitment to decarbonisation and the promotion of renewable gases, especially hydrogen.** [www.enagas.es](http://www.enagas.es)

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## VEOLIA CONTACTS

Laurent Obadia - Evgeniya Mazalova  
Anna Beaubatie - Aurélien Sarrosquy  
Charline

Tel. + 33 (0) 1 85 57 86 25  
[presse.groupe@veolia.com](mailto:presse.groupe@veolia.com)

## ENAGÁS CONTACTS

Jorge Álvarez  
Tel. (+34) 630 384 930  
Bouchereau [dircom@enagas.es](mailto:dircom@enagas.es)