

Article Overview

Belgium is currently developing a hydrogen pipeline network, with the first phase under construction in the port areas of Antwerp and Ghent, set to be operational by 2026.

Overview of the Project

Fluxys, a leading Belgian infrastructure operator, has initiated the construction of the first phase of its hydrogen pipeline network. This project is part of Belgium's broader energy transition strategy aimed at decarbonizing industry and supporting a low-carbon economy . The pipelines are designed to be open-access, allowing both producers and consumers to connect, and are built using multi-purpose technology, similar to existing natural gas pipelines .

Locations and Scope

The initial pipelines are being laid in the port areas of Antwerp and Ghent, with a strategic corridor connecting Kallo to Zelzate. This region is a key industrial hub and part of the Smart Delta Resources cluster, which promotes cross-border cooperation and sustainability . The first phase is expected to be operational by 2026, with gradual expansion planned in line with market development and government-supported risk mitigation mechanisms .

Purpose and Benefits

The hydrogen pipelines aim to:

- o Facilitate the hydrogen economy by providing reliable transport infrastructure for industrial use .
- o Support decarbonization of heavy industry and reduce greenhouse gas emissions .
- o Offer a safe, efficient, and low-emission alternative to transporting energy via trucks or trains, as pipelines require less space, produce fewer emissions, and have minimal visual impact .
- o Enable flexible energy storage and distribution, complementing renewable energy sources and ensuring supply during periods of low wind or solar generation .

Government Support and Market Integration

The project is backed by the federal government through the European Resilience and Recovery Fund, which helps mitigate investment risks in the early stages of market development . Fluxys hydrogen, established in 2023, was officially appointed in April 2024 as the Hydrogen Network Operator, responsible for developing and managing the network . The long-term goal is to transport an annual capacity of 30 TWh of hydrogen by 2030, supporting Belgium's climate targets and industrial sustainability .

Future Outlook

The hydrogen pipeline network will expand gradually, integrating with other energy carriers such as CO₂ and biomethane, creating a versatile and future-ready energy system . This infrastructure is a cornerstone for Belgium's transition to a carbon-neutral economy by 2050, providing a scalable solution for industrial decarbonization and cross-border energy collaboration .

Fluxys has officially launched the construction of the first phase of Belgium's hydrogen pipeline network. Appointed as

Infrastructure partner Fluxys Belgium has started, in the presence of Prime Minister

Brussels - 25 March 2025 - Fluxys announces the start of construction of the first phase of its hydrogen

Brussels - 25 March 2025 - Fluxys announces the start of construction of the first phase of its hydrogen pipeline network. This

One of Belgium's oldest breweries, in the narrow streets of medieval Bruges, solved a transportation problem and

In this role, the company is taking the lead in the creation of an open-access hydrogen pipeline network to which both producers and

Fluxys has begun construction on the first phase of its hydrogen transport network in Belgium, focusing initially on

De Vlaamse regering gaat weer werk maken van ruimte voor pijpleidingen. De plannen voor een leidingstraat tussen

Port of Antwerp-Bruges is one of the most important pipeline hubs in Western Europe. Pipelines offer the industry a safe, reliable and

The current climate challenge is based around one question: how can we make our industry sustainable while

Fluxys Belgium's transmission network is excellently linked to all natural gas sources available to the

Fluxys begins building Belgium's first hydrogen pipeline network, aiming to support the hydrogen economy and

Pipeline laying in Belgium

Construction has started despite the Belgian Government withdrawing a EUR250m (\$270m) funding package that was earmarked for

The Belgian-Dutch port company North Sea Port announced on Monday a collaboration with the Port of Antwerp

Infrastructure partner Fluxys Belgium started in the presence of Alexander De Croo and Tinne Van der Straeten,

A pipeline of beer may sound like a dream to some suds lovers, but this one may just help

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