

Vereinigung der Fernleitungsnetzbetreiber Gas e.V. (FNBGas)  
Georgenstrasse 23  
D-10117 Berlin  
E-Mail: info@fnb-gas.de

Your message dated	Your reference	Our reference	Date
			9 July 2021

Append(ix)(es)

### **Fluxys Belgium Input to the FNBGas Scenario Framework 2022-2032 – Hydrogen**

Dear Madam or Sir,

We refer to your consultation on the Scenario Framework for the Network Development Plan 2022-2032, published on your website on 21 June 2021 (hereafter, the "document").

First of all, Fluxys would like to thank FNBGas for the opportunity given to review the Scenario Framework and provide comments on the document. We also greatly appreciate the provision of documents in English, as well as the simultaneous translation made available during your Workshop of 1 July 2021.

In this letter we would like to express our support for the hydrogen generation and demand survey (WEB – Wasserstoffabfrage Erzeugung und Bedarf) initiated by FNBGas, as well as the publication of its main results in the document, which we have read with great interest. We have also taken good note of your plan to include H2 import capacities into a subsequent analysis of the supply and demand balance in Germany.

Earlier this year, Fluxys Belgium conducted its own market survey, which confirmed a demand for H2 and CO2 transport infrastructure in Belgium. 90 market parties provided a wealth of data through their questionnaires, covering a total

Fluxys Belgium SA  
Avenue des Arts 31  
1040 Brussels  
Belgium  
T +32 2 282 72 11  
F +32 2 230 02 39  
[www.fluxys.com/belgium](http://www.fluxys.com/belgium)  
VAT BE 0402 954 628  
RPR Brussels  
BNPP Fortis 001-3639537-76  
IBAN BE91 0013 6395 3776  
BIC GEBABEBB

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of 155 sites across Belgium (2/3 of which with projections for the hydrogen market and 1/3 with projections for the carbon market)<sup>1</sup>.

Fluxys Belgium plans to develop a transnational hydrogen grid enabling the transit of hydrogen through its network, as it does today for natural gas. This hydrogen grid will be connected with neighbouring countries, be able to supply many of Belgium's industrial clusters, and be connected to the future green hydrogen production plants.

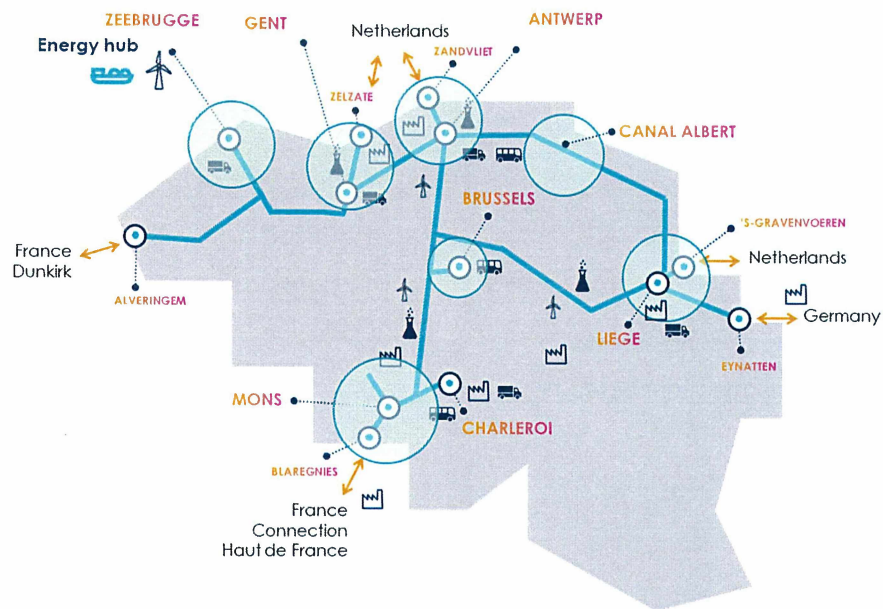
As requested in your Scenario Framework document, we are herewith providing inputs pertaining to the envisaged H2 interconnection capability between Belgium and Germany.

### **Horizon 2030**

In terms of cross-border capacity, we envision that the Belgian H2 grid would show interconnection capability with Germany, as well as the Netherlands and France at horizon 2030. The schema underneath resumes the main options available for a H2 and CO2 network in Belgium at horizon 2030.

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<sup>1</sup> <https://www.fluxys.com/en/energy-transition/hydrogen-carbon-infrastructure/cooperative-commercial-process>



## Options for a H2 network in Belgium at horizon 2030

At horizon 2030, we believe that a bidirectional interconnection between Germany and Belgium would be mutually beneficial to

- provide an additional pipeline import route for the German H2 market, improving security of supply and liquidity via diversification. H2 would come from production sites within Belgium, as well as transit from France and the Netherlands.
- provide the German H2 market with an access to imports coming from the area of the Zeebrugge terminal in Belgium.
- provide the Belgian H2 market with an access to storage capability in Germany, giving flexibility to cover the variations in H2 consumption.

We envision that the H2 interconnection with Germany would be located at Eynatten, where the natural gas networks interconnect via two parallel DN1000 pipelines on the Belgian side. Depending on the evolution of cross-border natural gas flows, one of these two pipelines may start to be repurposed to hydrogen transport at horizon 2030.

The delivery pressure and interconnection capacity at Eynatten are not yet known, as these depend on parameters which are not fixed, like the operating pressure,

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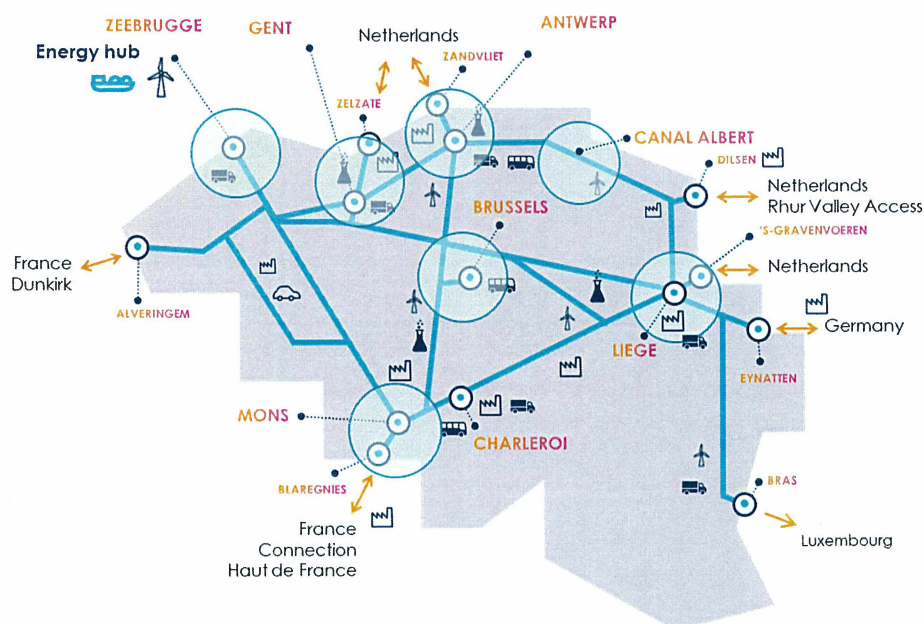
the exact topology of the network, the flow scenarios, etc. However, we believe that the following are good starting assumptions for the horizon 2030:

- Delivery pressure (Belgium to Germany): 30 barg H2
- Interconnection capacity range (in both directions): 2 GW to 4 GW H2

These figures will have to be confirmed in the future, as the technical details of the Belgian H2 network and its interconnections with adjacent countries are specified.

### Horizon 2050

Our vision of the Belgian hydrogen network at horizon 2050 is that of a meshed grid, providing more flow possibilities and therefore larger cross-border capacity. This will further improve security of supply and market liquidity.



***Vision of H2 network in Belgium at horizon 2050***

The technical details of the interconnection at Eynatten for the horizon 2050 are not known at this stage. However we believe that the following is a good starting assumption:

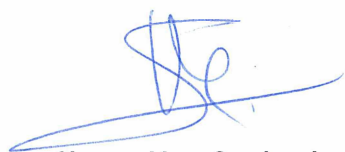
- Interconnection capacity range (in both directions): 5 GW to 10 GW H2

**Further cooperation**

We believe that cross-country cooperation is key to delivering a successful H2 backbone at European level. As expressed above, technical parameters like pressure and interconnection capacity at horizon 2030 and 2050 are still to be confirmed. We would welcome further cooperation between Fluxys Belgium and the German TSOs to firm up the technical characteristics of our future H2 interconnection.

We remain at your disposal to clarify our statements, and thank you again for the opportunity given to provide comments on the Scenario Framework document.

Your faithfully,

A blue ink signature of Steven Van Caekenberghe, consisting of a stylized 'S' and 'V' followed by a horizontal line.

**Steven Van Caekenberghe**  
Head of H2 & CO2 Program  
Fluxys Belgium S.A.

A blue ink signature of Pascal De Buck, featuring a stylized 'P' and 'D' followed by a horizontal line.

**Pascal De Buck**  
Managing Director & CEO  
Fluxys Belgium S.A.