**Consultation Feedback**

“H2, CO2 and CH4 Consultations: Future Prospects” process

***Document to be completed and sent by email***

1. **Modalities**

NaTran and Teréga are expecting feedback from stakeholders in the relevant markets ahead of the workshops, in order to frame the discussions during the sessions around the key issues raised.

**This document compiles all the questions raised regarding the range of scenarios and the prospective development plans of H2 and CO2 transport networks**. Associated documents for the "H2, CO2 and CH4 Consultations: Future Prospects" are available on the [NaTran](https://www.natrangroupe.com/notre-transition-energetique/consultation-acteurs-hydrogene-co2-ch4) and [Teréga](https://www.terega.fr/concertations-des-acteurs-des-marches-ch4-h2-et-co2-perspectives-davenir/) websites.

**If any questions in this document are not relevant to your input, you may also respond freely in the final “Free field” section. Please draft your reasoned feedback in this “Consultation Feedback” document and send it by email by May 2, depending on your point of contact, to:**

* **NaTran: ConcertationsCH4H2CO2@natrangroupe.com**
* **Teréga: Concertationsch4h2co2@terega.fr**

1. Your Contact Information

**Responding Entity:**

**Contacts who contributed to this response:**

**Email addresses:**

1. **Questions regarding scenarios**

**General :**

**Question 1** : Do you think the range of scenarios submitted for consultation is appropriate for the tasks and analyses described in the preamble?

**Response :**

**Question 2 :** Do you think the list of sensitivities is comprehensive? If not, what additional variants and sensitivities would you like to see studied to shed more light on the issues involved in balancing supply and demand? What particular uncertainties do you see as requiring alternative solutions?

**Response :**

**Regarding the Industrial Sector:**

**Question 3 :** Do you think the range covered by the scenarios for industry is appropriate? If not, what additional variants and/or sensitivities would you like to see studied? What particular uncertainties do you see as requiring alternative solutions?

**Response :**

**Question 4** : Do you think the range of changes in industrial activity is appropriate? What other sensitivities would you like to see studied?

**Response :**

**Question 5** : Do you think the hypotheses about the penetration of H2 in the industry are appropriate? What analyses can you provide as an input for these scenarios?

**Response :**

**Regarding the Building Sector (Residential and Tertiary):**

**Question 6 :** Do you think the range covered by the scenarios for the buildings sector is appropriate? If not, what additional variants and/or sensitivities would you like to see studied? What particular uncertainties do you see as requiring alternative solutions? What analyses can you provide as an input for these scenarios?

**Response :**

**Regarding the Mobility Sector:**

**Question 7 :** Do you think the range covered by the scenarios for the transport sector is appropriate? If not, what additional variants and/or sensitivities would you like to see studied? What particular uncertainties do you see as requiring alternative solutions?

**Response :**

**Question 8 :** Does the assumption that there will be no imports of e-fuels by 2035 because the volume of projects announced is greater than the projected demand in the medium term seem correct to you? If not, what information can you provide as an input for the scenarios?

**Response :**

**Question 9 :** Do you think the bunkering mix for marine fuels is appropriate? What technical or economic information would you be able to provide as an input for the scenarios?

**Response :**

**Regarding Hydrogen Production and Imports:**

**Question 10** : Do you think the range covered by the hydrogen production scenarios is appropriate? If not, what additional variants and/or sensitivities would you like to see studied? What particular uncertainties do you see as requiring alternative solutions?

**Response :**

**Question 11** : The volumes used in the scenarios for bio-sourced hydrogen production are marginal. Do you think these volumes are appropriate, or are they underestimated? Do you have any information that could be used as an input for the scenarios for these volumes?

**Response :**

**Question 12** : Imports of ammonia to produce H2 (cracking) have been examined, but no volumes have so far been included for the time scales presented. Do you think this hypothesis is reasonable? If not, can you provide any technical and economic analyses that would allow us to reconsider this position? What volume of ammonia should be added to our hydrogen import scenarios according to your analyses?

**Response :**

**Regarding Renewable and Low-Carbon Gas Production in France:**

**Question 13 :** Do you think the range covered by the renewable low-carbon gas production scenarios is appropriate? If not, what additional variants and/or sensitivities would you like to see studied? What particular uncertainties do you see as requiring alternative solutions?

**Response :**

**Question 14 :** Do you think that temperature is likely to influence the level of production from anaerobic digesters? Do you have any analyses that could be used to refine the assumptions about digester production at cold temperatures?

**Response :**

**Question 15 :** Do you have any analyses that could be used to assess the regionalised production of renewable low-carbon gas (anaerobic digestion, pyrogasification, hydrothermal gasification and power-to-methane) for the time scales under consideration (2030 and 2035)?

**Response :**

**Question 16 :** In your opinion, what are the main non-European sources of supply that should be considered when simulating methane flows? Do you have any analyses that could feed into the volume constraints to be applied in the simulations?

**Response :**

**Question 17 :** Do you have any analyses that could be used to refine assumptions about the availability of LNG (Liquefied Natural Gas) for Europe between now and 2035?

**Response :**

**Regarding the Electricity Generation Mix:**

**Question 18 :** Do you think the range covered by the electricity generation mix scenarios is appropriate? If not, what additional variants and/or sensitivities would you like to see studied? What particular uncertainties do you see as requiring alternative solutions? What technical and economic analyses can you provide on the role of hydrogen power plants up to 2035 and beyond?

**Response :**

1. Questions on Prospective Development Plans

Question 19 : Do the proposed pipeline routes for various timeframes allow you to consider connecting your project to the H2 or CO2 networks?

Response :

Question 20 : Are you located in an area that does not appear to be served, even though you are considering connecting your project to the H2 or CO2 network? If so, at what timeframe?

Response :

1. Free Field :

***The documents and data provided by NaTran and Teréga as part of this "H2, CO2 and CH4 Consultations" process are shared for informational purposes only and are intended solely for the exclusive use of the concerned stakeholders.***

***These documents were prepared in whole or in part based on information and data obtained from public sources, partners, or third parties, which may be preliminary and/or not definitive. The information and scenarios contained within are based on assumptions and are indicative.***