

**Market consultation**

**Low-carbon and renewable H2**

Full questionnaire

## Welcome to the H2 market stakeholders’ consultation questionnaire

*By responding to this questionnaire, you agree to send your data and responses to GRTgaz and Teréga. This information is used solely by GRTgaz and Teréga for the planning of a possible hydrogen transmission network. You consent to this information to being published in an aggregated manner, based on all respondents to the questionnaire, at a sufficiently wide scale to ensure the confidentiality of your information and the anonymity of the respondents.*

The system allows you to **reply in one or more instalments** by **automatically recording your responses as you go**. As such, if you leave your web browser on page 5 of the form then you return to complete the end of the questionnaire, the form saves your answers to the questions on pages 1 to 4 and you can access page 5 directly to continue your answers.

**After submitting the questionnaire, you can still come back to it to amend your answers**.

You can also **download all the questions** by clicking on the link below to share them within your organisation, according to the skills requested.

**Full questionnaire**

You can **pass on questions that do not seem relevant** to your activities and projects.

The questions are addressed to both private and public stakeholders. **Each question must therefore be interpreted according to your status**.

Please contact us if you have a technical problem with the questionnaire ([**consultationh2@grtgaz.com**](file:///C%3A%5CUsers%5Css%5CDownloads%5Cconsultationh2%40grtgaz.com%C2%A0) / **consultationh2@terega.fr**).

Not all H2 topics are covered by this questionnaire. The main aim of the H2 consultation is to plan the network’s future development needs.

**Please contact us if you want to give specific feedback** to GRTgaz or Teréga ([**consultationh2@grtgaz.com**](file:///C%3A%5CUsers%5Css%5CDownloads%5Cconsultationh2%40grtgaz.com%C2%A0) / [**consultationh2@terega.fr**](file:///C%3A%5CUsers%5Css%5CDownloads%5Cconsultationh2%40terega.fr)).

*Please contact us if you would like to exercise your GDPR rights (*[***protectiondesdonnees@grtgaz.com***](file:///C%3A%5CUsers%5Css%5CDownloads%5Cprotectiondesdonnees%40grtgaz.com%C2%A0)*/* [***dpo@terega.fr***](file:///C%3A%5CUsers%5Css%5CDownloads%5Cdpo%40terega.fr)*).*

## Information about your organization and your H2 contact person

*This questionnaire is the first step in the consultation process. We may discuss the content of your responses with your organisation’s H2 contact person at a later date.*

*Fields marked with an asterisk are required*

* *Question 1* - Name of your organisation \*

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* *Question 2* – Name and surname of the H2 contact person \*

**

* *Question 3 -* Position \*

**

* *Question 4-* Email address \*

**

* *Question 5 -* Telephone number \*

**

* *Question 6 -* My organisation is a/an \*:

Industry

Public stakeholder (institutional stakeholder, local authority, etc.)

Shipper/supplier/trader/energy producer

Carrier (goods/travellers)

Professional organisation/association

University/research institute

Other (please specify):

**

***If you are an industrial company please answer question 7.***

* *Question 7 -* What is your industry? \*

Steel, refining/petrochemicals

Metallurgy

Chemicals

Mobility

Other (please specify):

**

## Respondent profile: H2 producer and/or user

* *Question 8 -* Are you planning to produce hydrogen or are you already a hydrogen producer? \*

*If you are a public stakeholder (institutional stakeholder, local authority, etc.), are you aware of any H2 production projects in your territory?*

Yes

No

* *Question 9 -* Do you consume/market/trade hydrogen or do you plan to do so? \*

*If you are a public stakeholder (institutional stakeholder, local authority, etc.), are you aware of any H2 usage projects in your territory?*

Yes

No

## Decarbonisation strategy for your organisation

* *Question 10 -* Is decarbonisation a strategic priority for your organisation? \*

*If you are a public stakeholder (institutional stakeholder, local authority, etc.), is decarbonisation a strategic priority for your territory?*

Yes

No

***If you answered ‘yes’ to question 10, please answer questions 11 to 17.***

* *Question 11 -* What are the priority greenhouse gas (GHG) emissions areas for you (ADEME SCOPE)?

Direct GHG emissions (or SCOPE 1)

Indirect energy emissions (or SCOPE 2)

Other indirect emissions (or SCOPE 3)

* *Question 12 -* How do you envisage decarbonising your activities (energy vector, technology, etc.)?

**

* *Question 13 -* Have you set quantified decarbonisation targets?

Yes

No

***If you answered ‘yes’ to question 13, please answer questions 14 and 15.***

* *Question 14 -* What are your quantified decarbonisation targets?

**

* *Question 15 -* What role does H2 play in achieving these goals?

**

***If you are a public stakeholder (institutional stakeholder, local authority, etc.), and you have answered ‘yes’ to the question 10, please answer question 16.***

* *Question 16 -* Has the decarbonisation goal been set out in a PCAET, SCOT, SRCAE, or any other planning document?

Yes

No

***If you answered yes to question 16, please answer question 17.***

* *Question 17 -* In which planning document(s) was the decarbonisation goal set out?

**

## Your organisation’s H2 strategy

* *Question 18 -* At present, what are the main decision-making criteria that drive you to produce and/or consume H2?

*If you are a public stakeholder (institutional stakeholder, local authority, etc.), what are the main decision-making criteria that drive you to develop the production and/or consumption of H2 in your territory?*

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* *Question 19 -* How do you see the H2 market developing in the short term (2025), medium term (2030-3035) and long term (2040-2050)?

*Timescale vision for the H2 market rollout)*

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* *Question 20 -* How do you see the development of H2 in your territory at both regional and national levels?

*Geographical vision for the H2 market rollout*

**

* *Question 21 -* What are the key success factors and main risks associated with the H2 vector for your organisation?

*Please rank them in descending order of importance by ticking the appropriate box.*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Rank 1*most important* | Rank 2 | Rank 3 | Rank 4 | Rank 5 | Rank 6 | Rank 7 | Rank 8*least important* |
| Accessibility of third parties |  |  |  |  |  |  |  |  |
| Price transparency |  |  |  |  |  |  |  |  |
| Entry and exit points on the natural gas network |  |  |  |  |  |  |  |  |
| Costs of production/electricity/transport/storage |  |  |  |  |  |  |  |  |
| Diversity of the offer |  |  |  |  |  |  |  |  |
| Security of supply |  |  |  |  |  |  |  |  |
| CO2 cost |  |  |  |  |  |  |  |  |
| Final H2 price paid by consumer |  |  |  |  |  |  |  |  |

* *Question 22 -* Explain your choices:

**

* *Question 23 -* How can energy network operators help reduce these risks?

**

## Your H2 transmission and storage needs

* *Question 24 -* What would be the longest contract period you would be willing to commit to for H2 transmission?

5 years

10 years

15 years

>15 years

* *Question 25 -* Do you think this maximum contract duration is linked to an asset or to the business life cycle?

Asset

Business life cycle

Other (please specify):

**

* *Question 26 -* Do you think you require energy storage services?

Yes

No

* *Question 27 -* Would you be willing and/or able to adapt your H2 production/consumption for balancing purposes?

Yes

No

***If you answered ‘yes’ to question 27, please answer question 28.***

* *Question 28 -* Specify how you envisage adapting your H2 production/consumption for balancing purposes:

**

## Questions specific to “H2 Producer” respondents

***If you answered ‘yes’ to question 8, please answer questions 29 to 32.***

* *Question 29 -* Which production method(s) do you use/plan to use?

Electrolysis

Thermochemical water splitting

Pyrolysis

Thermal reforming (ATR, SMR)

Co-production from industrial processes

Biological production (from waste or organic effluents)

Pyrogasification

Hydrothermal gasification

Other (please specify):

**

* *Question 30 -* What energy source is used?

Renewables

Natural gas

Electrical network mix

IAA waste

Agricultural waste

STEP sludge

Effluents

Other (please specify):

**

* *Question 31 -* Do you already know what the hydrogen produced will be used for?

Yes

No

***If you answered ‘yes’ to question 31, please answer question 32.***

* *Question 32 - S*pecify the uses of the hydrogen produced:

**

## Questions specific to “H2 User” respondents

***If you answered ‘yes’ to question 9, please answer questions 33 and 34.***

* *Question 33 -* What is the current or future role of hydrogen in your activity?

*If you are a public stakeholder (institutional stakeholder, local authority, etc.), what is the current or future role of hydrogen in your territory?*

Raw material

Heat

Fuel for mobility

Energy production

Other (please specify):

**

* *Question 34 -* Where does the hydrogen used in your activity come from?

*If you are a public stakeholder (institutional stakeholder, local authority, etc.), where does the hydrogen used in your territory come from?*

Delivered by a third-party supplier

Own on-site production

A mix of own production and third-party purchases

Other (please specify):

**

## Technical specifications

* *Question 35 -* What are/would be the H2 pressure regimes used in your activity?

**

* *Question 36 -* What are/would be the critical impurities for your activities?

**

* *Question 37 -* What is/would be the appropriate H2 purity rate for your activities?

**

## Your needs regarding access to the natural gas network for H2 transmission

* *Question 38 -* How do you intend to transport hydrogen from the place of production to the place of consumption?

By pipeline

By road or rail

By boat

Consumption on site/individual consumption

Collective consumption

Other (please specify):

**

* *Question 39 -* Are you planning to inject H2 into the gas network?

Yes

No

***If you answered ‘yes’ to question 39, please answer question 40***

* *Question 40 -* In what proportions do you plan to inject blended H2 into the gas network?

**

## Your CO2 needs

* *Question 41 -* Are CO2 capture and storage and/or utilization solutions being considered for your activity?

Yes

No

***If you answered ‘yes’ to question 41, please answer questions 42 and 43***

* *Question 42 -* Over what timescale do you plan to capture/store and/or use CO2?

<5 years

5-10 years

10-15 years

>15 years

* *Question 43 -* Do you think that a market consultation for a CO2 transmission pipeline infrastructure would be necessary?

Yes

No

## Details by site and volume

This questionnaire is designed to collect information about your needs and expectations regarding the rollout of an H2 transmission network.

We therefore collect information on the volumes of H2 produced and consumed, the locations of this production/consumption, as well as on the implementation of the H2 produced and its uses over time.

To do this, we have put together the [**"Details by site and volume” Excel file**](https://www.grtgaz.com/sites/default/files/2021-06/Volumetry-and-details-per-site_1.xlsx) (see below). The information you provide in completing this spreadsheet will be the raw material for planning the H2 network of tomorrow to meet your needs.

**So thank you for your contribution!**

The "**List of sites & projects**" tab must be completed first to provide general information about each of your existing and/or future sites for the production and/or use of H2.

These sites will automatically be listed in the "**Volumes**" tab, where you will be able to complete the volume data that you currently have for each site.

If you have more than 50 sites, or if you have any difficulties in filling out this information, please do not hesitate to contact us ([**c*onsultationh2@grtgaz.com***](file:///C%3A%5CUsers%5Css%5CDownloads%5Cconsultationh2%40grtgaz.com%C2%A0) / [***consultationh2@terega.fr***](file:///C%3A%5CUsers%5Css%5CDownloads%5Cconsultationh2%40terega.fr))

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[**Download the "Details by site and volume” Excel file**](https://www.grtgaz.com/sites/default/files/2021-06/Volumetry-and-details-per-site_1.xlsx)

* *Question 44 -* Please attach the completed "Details by site and volume" Excel file

## Closing Questions

* *Question 45 -* Do you have any comments or additional information that might be relevant to the development of the transmission infrastructure?

**

***Thank you for answering the H2 consultation questionnaire. In practice, it cannot cover all topics.***

* *Question 46 -* Do you think these issues need to be discussed in greater depth as part of bilateral meetings with GRTgaz or Teréga?

Yes

No



**Thank you for completing the H2 Consultation questionnaire!**