

Question	Asker Name	Answer(s)
As some of us might not be able to join the full webinar, is there a possibility to review recordings after as well ?	Tom Firlefyn	Yes the webinar is being recorded and will be made available.
Helen Chraye has covered some key points, will a transcript/written summary be available?	Nigel Holmes	Good morning Nigel. A recording of the webinar will be made available.
Will the data produced at the FCHO be made open access?	Dean Page	Yes. The intent of the FCHO is to be the go to source for data on the FCH sector, particularly in the EU. Industry data will typically only be presented in aggregated form to respect the confidentiality concerns of industry participants.
Is it possible for the observatory to publish who are the involved stakeholders/company in the industry?	Iñigo Gomez	Over time, the company directory will reflect the overall industry participation. We will not publish a detailed list of who has provided what data.
Will the presentations presented in this webinar be available on your website ?	Krzysztof Gosz	Yes the presentations are available on the FCHO
EAFO data have shown especially regarding HRS infrastructure deployed and available not being up-to-date at all, how will FCHO make sure that data reliability is improved?	Thomas Brachmann	EAFO is now using the same data on HRSs as the FCHO to ensure consistency. The FCHO will be responsible for maintaining this data. We have put in place systems to track deployment of HRSs going forward.
How are you going to make money with this platform?	Hans Marius Schuster	The FCHO is currently funded by the FCHJU until 2022. It is free to access.
What is the launch timeline for this platform ?	Jean-Pierre Surin	The Market Data Platform will be launched in the coming months. We consider thorough testing with initial users to be a priority so that testing process will drive the exact timing.
Will the FCHO be able to show ongoing EU funded projects developing FCH use? I am interested in knowing more about heavy transport/maritime H/FC developments?	Craig Eason	Yes EU funded projects will be included in the next update as part of the Training & Education chapter.
You mention that the company directory will track fuel cell and component makers - will they be categorised in any way to be able to identify companies acting in certain technologies?	Faris Pleho	Yes the company directory is keyword searchable and can be filtered by technology/components
Luca - what are the countries you are most interested in involving outside Europe?	Scott Ryall	We see the industrialisation of the FCH sector as very much a necessarily global development so we would encourage actors to participate regardless of geography.
how is it possible to get the webinar recording and data	Hemant Mehta	It will be made available on the FCHO.
will the website cover data for all countries? is Saudi Arabia included?	khaleel badawi	For hydrogen supply and demand - No. Its EU-27 + UK, SUI, Iceland and Norway. We aim to be as broad as possible in our data collection and the FCHO will evolve over time.
is there a panel of experts in charge to validate data collected before to use for reporting? how the experts are recruited	Francesco Massari	The FCHO team draws on an extensive network of industry experts, including a network of national contributors from over 30 countries.

Any plans to include data from neighbouring countries associated with the EU and included in the EU H2 strategy? Ukraine, for example?	Iryna Skliar	Absolutelly, there is a plan to include Ukraine as well as Morocoo
Is the observatory including H2 forecast data production and needs based on demand development?	Anonymous Attendee	Unfortunately no. The FCHO is all about gathering information about current developments
Should the hydrogen supply only focus on Green Hydrogen? Or at least, differentiate the source of hydrogen?	Pau Farras	The FCHO shows the current state of the market including all types of hydrogen. In this way stakeholders will be able to see how the market transitions over time.
Can you clarify with regard to « Power to Gas » tech ? do you mean - include Electrolysis technology ?	David DUFLOT	Yes - this exclusively covers Renewable energy source + electrolysis
Hydrogen supply - do you plan also to inform about the amount per type of hydrogen - grey/blue/green or is the green too marginal to be mentioned ?	Eric Plan	We will monitor the deployment of green hydrogen alongside the existing hydrogen production section. Over time this will enable stakeholders to monitor the transition to green hydrogen.
About Hydrogen Supply, under which category can we track Green H2 produced by water electrolysis? Do you differentiate PEM vs alkaline / SOEL ?	Patrick Redon	Yes the hydrogen production section is broken down by technology type.
Will you match the order of the color in the pie chart with the legend? Currently is it relatively confusing .	Jan Cihlar	Thank you for this feedback. There are a number of cosmetic issues that we are still working on. We will see what we can do to make the color coding clearer.
can the platform also be used for technology development collaboration, investment?	Greg Cipollone	There is a datastream on funding which allows stakeholders to identify potential sources of funding for their project. There is no live collaboration tool however users are able to search for companies within the company directory section.
Paul McCormack GenCommDo you have a technology journey timeline to 100% green hydrogen	Pau Farras	This is not an area of focus for the Observatory, which focuses on current status and developments. We hope to be able to provide data that would inform those kind of roadmap developments.
Congratulations for the launch of the FCH Observatory and great work already. 2 questions from my side: (1) Do you plan to make methodological recommendations to Member States on how to monitor the market for the various applications (shipments, installation, decommissioning...) to ensure reliability of the date at EU level?(2) Do you plan to analyze the effect of supporting policies in the various EU Member States on the markets for FCH products and publish recommendations on effective supporting policies in the EU (cf. green certificates, feed-in tariffs, tendering for renewables)?	Denis Thomas	Dear Denis, On your second question, while the FCHO will stop short at publishing recommendations, Hydrogen Europe will surely be keen on making informed, data-based analysis and using that in our policy recommendations

Shipping of Hydrogen will be support for Liquid Hydrogen, Ammonia , or LOHC?	thibault alasnier	Thank you for this question, shipping of hydrogen may well be tracked in the FCHO in the future.
How current will the historical data be ? Quarterly, yearly ?	Paul Jenne	Currently, data is generally annual. It is possible that data will become more granular in time if the underlying data enable it. For the market data, expanding the technical and geographic coverage is a higher priority than the transition to more granularity in time.
Do you carry out LCA studies on varius types/pathways of h2 prod.?	Anonymous Attendee	Conducting new LCA studies is not currently part of the scope of the FCHO.
We are happy to share our data and are we allowed to use your compiled data?	Alex Huddart	Thank you for expressing interest in providing data. The FCHO welcomes industry participation and will be reaching out in an on-going manner to gather data on the different topics shown during the launch.The data that is currently available on the FCHO can be used publicly and should be referenced back to the FCHO.
Will you include an overview of hydrogen strategy roadmaps communicated by the countries WW (18 so far) with main objectives & milestones ?	Eric Plan	Hydrogen Strategies where they exist are noted in the Policies section which will be updated on an annual basis.
What about Hydrogen use in marine?	Adrian Shakib	For now this is included in the 'transport' category. In the future, if the H2 uptake in the maritime sector grows it may warrant its own category
Regarding the national policies, will you also include incentives/regulation regarding 'hybrid projects' renewables+ H2?	Carmen de Diego	Yes, there is a concrete plan to do so at the next revision of the data. However this question is not fully reflected at the current version
ANYTHING ON STORAGE POINTS LIKE SALT CAVERNS OR DEPLETED GAS FIELDS AND SO ON?	Riccardo Scorza	We are continue to evaluate potential new sections of the FCHO.
Do you plan to provide a gap analysis of requirements of Policies among Countries?	Francesco Massari	live answered
I understand that HyLAW may stop being updated in 2021. What will happen with HyLAW updates then?	Anise Ganbold	Dear Anise, The HyLaw Consortium took a commitment to keep the database up to date until 2021. However, Hydrogen Europe is already considering options for making sure this resource continues to be available and up-to-date after this date. The plans are not final yet, but it is a strong desire within Hydrogen Europe to maintain this database past 2021.
The section on the national incentives applied and so on, when will that be online?	Vincent Oldenbroek	The full FCHO is publicly available as of 15th September 2020
Can we republish your data? We will credit you, of course	Anise Ganbold	Yes, data can be extracted and used (it is made publically available), provided it is correctly referenced to the FCHO
Regarding standards - have you considered regulation around vehicle type approval?	Jane Patterson	Much information on type approval regulation can be found on the HyLAW database, such as here for cars, busses and trucks: https://www.hylaw.eu/database#/database/vehicles/cars-buses-trucks/type-approval-individual-vehicle-registration-process

Marek M - How will data reliability be guaranteed?	Krzysztof Gosz	There are a number of steps that we take in order to make the data as reliable as possible. This includes amongst other things cross referencing, consulting with industry and national contributors.
Will all this data available freely to all, or only for registered members and data providers?	Lech Wojciechowski	The data is publicly available
Although not recognised by the EC as Int. Standardisation body, SAE Int. plays a critical role in transport/mobility applications, and its standards are followed by global hydrogen-related industries. Which are the reasons to exclude SAE standards from your list?	Pietro Moretto	Thank you for your question Pietro. For the purposes of this observatory we've decided to only include formal/recognized standardization developing organizations, and exclude 'industry standards'. We have based this decision on reasons such as: transparency of the process of standards drafting, barriers to participation, inclusiveness, whether the standards are based on international (or European) consensus.
Maritime sector is already on the move. Marine Fuel cells up to 3 MW are already developed. MAN has a commercial product for Fuel gas supply system on board a vessel. First ship running on pure hydrogen will appear in 2-3 year. I believe Maritime sector is not behind the "road transport" sector.	Adrian Shakib	The overall taxonomy of applications includes maritime and other applications. The aspiration is to publish data on as many of these applications as possible. Whether or not the FCHO will be able to publish data on specific applications will depend whether the data provided by actors is sufficient to be representative of the given application and, most importantly, to allow aggregation to protect the confidentiality of company data.
Is the direct link to the standards for free?	Michael Schröder	Thank you for your question Michael. The hyperlinks in the observatory direct to the specific standards pages on the ISO, IEC, CEN, CENELEC, or OIML page. You are able to purchase the standards through the sales-points mentioned on those pages.
Diana, is the portal open to public too? Thorough website straight or require registration?	Anonymous Attendee	The FCHO website is publicly available but does not require registration to access the data
Hi - my name is Erik Rakhou. Really great overviews. I was looking at map of national hydrogen strategies - it looks as if Portugal is not showing on the map? How often will the data on strategies be refreshed?	Erik Rakhou	Dear Erik, Indeed, We are aware that Portugal has published a Hydrogen Strategy and that this is not shown in the current version of the database. As a general rule, the database goes through a full revision only once / year, however, we make efforts to make updates continuously, Updating the information on the Hydrogen Strategy for Portugal is a good example for something we want to update ahead of our planned full revision
how will we be informed on the official launch ?	Jean-Pierre Surin	Today is the official launch
Is there a comparative overview of all EU against all other National Hydrogen Plans for the countries that already have established such plans ?	Paul Jenne	The 2019 Annual Analytical Reports were based on data up to May 2019, this made an analysis of national hydrogen plans premature in this year's report. But such a comparison will be made in the next edition
Is the information on the site up to date or is there a time lag in the research?	Pau Farras	The data on the FCHO is updated on at least an annual cycle. Each data presentation includes information on when that data set was last updated.

Anything on storage points like salt caverns or dep. gas fields?	Riccardo Scorza	Currently there is no information on future hydrogen storage points. As these areas of the market develop they will be included in the relevant sections of the FCHO.
Will you have links to the source for publications, patents, etc.?	Pau Farras	Yes all links for data sources are included in the relevant section of the FCHO.
Where can I note that a correction of data is needed, for example at national level if that is the case?	Ferdinand Bulla	You can either provide feedback on that FCHO page or contact the FCHO team. The contact email is at the end of this presentation.
What does CS refer to under hydrogen source/process on the supply tab? Generally it would be helpful to have an explainer of every acronym like ELY, POX etc for those not familiar	Gniewomir Flis	The glossary can be accessed at the bottom of every page. However, we appreciate your feedback and will look to make this clearer for users.
Congratulations for the FCHO initiative. How FCHO will evaluate the scientific advances in proton-exchange membranes for fuel cells?	Abílio Sobral	The FCHO will be able to report on technology deployments which include all types of new developments, as long as the market data is available.
The FCHO is indeed a great source of information but it is static. How can we embolden the portal to be more dynamic and drive collaboration. projects and bids?	Pau Farras	One first step will be to enable (and empower) the user feedback function, which allows us to update the data / improve it, based on user suggestions and items flag. We hope this function will prove popular with our users.
WHAT ABOUT JOBS? ARE YOU GOING TO MONITOR THE INDUSTRY?	ELI WINKLER	Companies will have the opportunity to provide employment data as part of the company profiles on the Market Data Platform when this is launched. This data will be published in aggregated form provided a sufficient number of companies provide data.
It is great and very informative. I am from Australia and request to highlight the global projects and trends in this area for information. Thanks a lot.	Rao Atmuri	Thanks for your comment. We are certainly aware of the exciting developments happening in Australia. For pragmatic reasons the FCHO has to focus its initial efforts primarily on Europe. However, we are certainly open to exploring ways to incorporate data from other world regions, particularly if a party in those regions is in a position to provide data in an on-going manner. If you are aware of such a data source that would line up with one of the FCHO's data streams please do get in touch!
Nicolas , would like to understand how you connect with local national organisation such as AFHYPAC in France , thanks ,	David DUFLOT	We very much welcome input from organisations and companies in the Fuel Cell and Hydrogen area. Do get in touch.