



# MONACO HYDROGEN FORUM

MOVING THE WORLD  
WITH GREEN HYDROGEN

Organized by the Monaco Hydrogen Alliance

## POST-EVENT REPORT

Inaugural Edition  
21-22 November 2022  
Monte Carlo, Monaco



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# Letter From The President



As President of the Monaco Hydrogen Alliance, it's been my great honor and pleasure to welcome you to the inaugural edition of the Monaco Hydrogen Forum, held on November 21-22 in Monaco, Monte Carlo. I personally want to thank our speakers, partners and participants for their valuable participation in this first successful edition of the Forum.

For the first time ever, a dedicated platform, the Monaco Hydrogen Alliance, gathered leading industrial and transportation organizations from around the world, experts and scientists, as well as start-ups, policymakers and political leaders committed to placing renewable hydrogen at the heart of energy transition strategies in the mobility and transportation sector.



John Rossant  
President  
Monaco Hydrogen Alliance

My team and I had long felt that a dedicated look at renewable hydrogen and its role in mobility and transportation was very much needed. And we were convinced that the Principality of Monaco — with its long and deep engagement in the fields of protecting global oceans and biodiversity and its historic association with advanced mobility — was the perfect place for this important conversation. The quality of the discussions, the invaluable support of our partners, and the presence of leading hydrogen players from around the world — including Germany, France, Australia, Saudi Arabia, India, Turkey, the U.S., Israel, Ukraine, DR of Congo, South Africa, Morocco, Canada, and more— were proofs that our convictions were correct.

The Monaco Hydrogen Alliance is hard at work on several new initiatives in 2023, from launching dedicated thematic tracks to deep dive into topic or geographic-specific issues. We will pursue our efforts to reward innovation in this promising sector with a new edition of the Monaco Prize for Innovation in Renewable Hydrogen and Transportation. Finally, we are also excited to begin preparations of the 2023 edition of the Monaco Hydrogen Forum — and hope to, once again, build on global efforts around COP28, next November.

This would not have been possible without your engagement and your commitment to a cleaner and more sustainable world.

With my warmest thanks,

# About the 2022 Monaco Hydrogen Forum



## Our Program Theme and Key Focus

Atmospheric carbon dioxide concentrations are higher — and rising faster than ever before, with [transportation alone accounting for nearly 25% of all global emissions](#). Hydrogen, particularly renewable hydrogen, can and must play a critical role in global and national [decarbonization strategies](#) going forward.

Renewable hydrogen can be critical to help transform mass transit, long-haul vehicles, heavy duty vehicles and machinery, shipping, aviation, industry, and other massively carbon emitting activities. While hydrogen will never be the exclusive element of any national decarbonization strategy, this zero-emission energy source produced without also creating greenhouse gases will have an enormous role to play going forward.

With such great momentum and with so much at stake, it is critically important to bring all stakeholders to the table.

The theme of this first edition was [Moving the World with Green Hydrogen](#), with a strong focus on both innovation and its enabling ecosystem: without innovation, we cannot move the world with green hydrogen. Without a functioning ecosystem, existing and new solutions cannot be accelerated and developed throughout the broader transportation value chain.

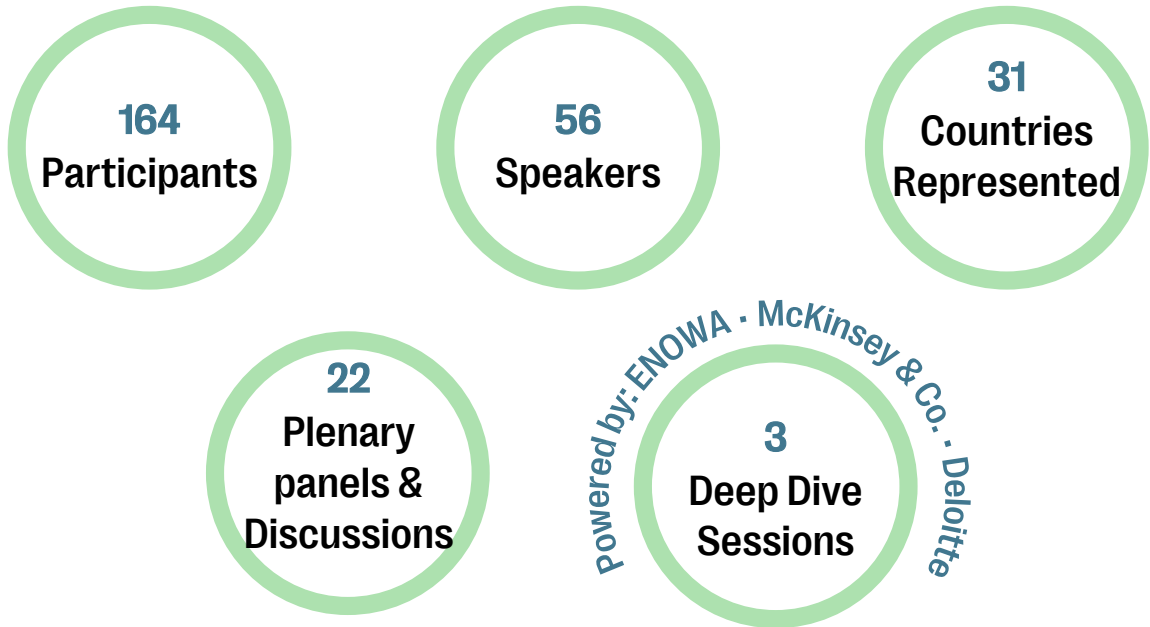
### [Innovation Day - 21 November 2022](#)

The first day of the Monaco Hydrogen Forum focused on [innovation](#), presenting [solutions](#) that can revolutionize hydrogen mobility across all sectors. It featured pitches from the 8 finalists of the Monaco prize for Innovation in Renewable Hydrogen and Transportation, who joined us to present their solutions.

### [Ecosystem Day - 22 November 2022](#)

The second day of the Monaco Hydrogen Forum deep dived into the concept of a renewable hydrogen and transportation [ecosystems](#), advancing global discussions across several transportation sectors. The closing of the forum featured the inaugural award of the [Monaco Prize for Innovation in Renewable Hydrogen and Transportation](#) by His Serene Highness Prince Albert II.

## The Forum in Numbers



## With representations from:



# Sessions Key Takeaways



## ▪ Energy of the Future

Hydrogen is a viable source of energy for transportation

## ▪ Grey, Blue, Green Hydrogen?

The different hydrogen colors do matter in achieving a truly sustainable transportation industry: we need to focus on renewable and green hydrogen

## ▪ An Enabling Ecosystem for Innovation

An innovation ecosystem is key to advancing the sustainable development and use of renewable hydrogen in transportation sectors

## ▪ Geopolitics and Hydrogen

The hydrogen economy has the potential to disrupt geopolitics with new energy giants and producers coming to the forefront of the global stage



With this incredibly successful inaugural edition of the Monaco Hydrogen Forum we have launched a global movement to accelerate the development and use of renewable hydrogen as a 100% clean fuel for transportation.”

**John Rossant**  
President, Monaco Hydrogen Alliance



Today, hydrogen holds the promise of an energy that is abundant, reliable, constant and non-polluting. Unique opportunities are to be seized here, and thanks to your work, your inventiveness and your determination - you are giving substance to these opportunities.”

**H.S.H. Prince Albert II of Monaco**

## ▪ Strengthen collaboration

Collaboration on technology and best practices will be needed to support their endeavors. We will need to adapt and scale local solutions globally

## ▪ Cost Efficiency

To drop hydrogen prices, a major factor slowing down its adoption, it will be critical for regulators and policy makers to create financial incentives that encourage its adoption

## ▪ We Only Have a Few Years to Act...

While the ultimate target is often set for 2050, we need the technologies to be developed, tested and prototyped in the next 2-3 years



We need to come together, and discuss ways to overcome any barriers to the adoption of hydrogen in our cities.”

**Céline Caron-Dagioni**  
Minister of Public Works, the Environment and Urban Development, Monaco



# Monaco Prize for Innovation in Renewable Hydrogen and Transportation



The Monaco Hydrogen Forum was the occasion to award the inaugural Monaco Prize for Innovation in Renewable Hydrogen and Transportation. Launched in partnership with Strategic Partner ENOWA in the Spring of 2022, the global competition assessed 52 solutions from 16 countries.

During the Forum, some 8 finalist organizations were invited to pitch their solutions in front of the Prize's Jury: Genevos/France; Hydrox Holdings/South Africa; Helion by Alstom/France; Green Independence/Italy; Zesst by Almatech/Switzerland; Hysilabs/France; Hyon/Norway; Gaussin/France.



## The Prize's Jury Members:



**Roland Kaeppler**  
Executive Director of Green Fuels and Hydrogen, ENOWA, Saudi Arabia



**Yasmeen Najm**  
Innovation Manager, Green Fuels and Hydrogen, ENOWA, Saudi Arabia



**Emanuele Lauro**  
President, Monaco Chamber of Shipping, Monaco



**John Rossant**  
President, Monaco Hydrogen Alliance, United States



**David Morant**  
Director of the Supervisory Board, Belfast Maritime Consortium, United Kingdom



**Elise Zoli**  
Partner – Energy & Climate Solutions, Wilson Sonsini, United States

## Meet the Winners of the Monaco Prize:



1. **Genevos** was awarded the **Monaco Prize for Innovation in Renewable Hydrogen and Transportation** by H.S.H. Prince Albert II of Monaco;
2. **Gaussin** was granted second place, with a special distinction for '**Cross-sector Adaptability Solution**';
3. **Hydrox Holdings** was granted third place, with a special distinction for '**Emerging Technology Solution**'.

**Heven Drones** - developing hydrogen powered drones, was granted a separate distinction for '**Most Disruptive Potential**'.



The Monaco Hydrogen Forum was the occasion to award the inaugural Monaco Prize for Innovation in Renewable Hydrogen and Transportation. Launched in partnership with Strategic Partner ENOWA in the Spring of 2022, the global competition assessed 52 solutions from 16 countries.





**Stefan Kaufmann** ·

Working on a global hydrogen economy  
1w · 🌐

Was a great pleasure to moderate the opening panel of the inaugural edition of the **#MonacoHydrogenForum**, organized by the **Monaco Hydrogen Alliance**, on behalf of **thyssenkrupp**: "Global decarbonization thanks to renewable energies". The Alliance is a platform bringing together industry leaders as well as transport and **#mobility** policy makers with a focus on hydrogen the **#maritime** sector. Together with **Cyril DUFAU-SANSOT** from **Hy2gen AG**, **Obaid Amrane** from **Ithmar Capital**, Prof. Iftach Yacoby from **Tel Aviv University**, **Dr. Dina Barbian** from **eco2050 Institut für Nachhaltigkeit - Institute for Sustainability GmbH** and **Rene Sejer Laursen** from **ABS** we discussed about the production of **#h2** in different ways and in large scale and how to build the necessary hydrogen **#infrastructure**. But also: What will be the **#shipping** fuel of the future? When will we see the first ships carrying liquid **#hydrogen**? Thanks for all contributions!



**Obaid Amrane**

Directeur Général  
2w · 🌐

As a member of the advisory board of the **Monaco Hydrogen Alliance**, I am delighted to see the inaugural edition of **#MonacoHydrogenForum** come to fruition last Monday. The Alliance is a platform exclusively dedicated to mobility and renewable hydrogen that brings together the main public and private hydrogen operators, as well as industry leaders and transport and mobility policy makers.  
I believe that Hydrogen is the first step that would allow the decarbonization of several electro intensive industries as it's a reliable energy vector. Moreover, thanks to its solar and wind resources, Africa is very well positioned to produce low-cost green hydrogen in the near future.  
Thank you to the other speakers of the panel "Global decarbonization thanks to renewable energies" for their valuable insights and to the organizers for having us.

🌐 Dr. Dina Barbian and 126 others

4 comments · 2 reposts



**Dr. Dina Barbian** · 1st

Sciencepreneur / Social Entrepreneur / SDG supporter / digital & s...

Thank you. I was very delighted and honoured to contribute with the knowledge of **eco2050 Institut für Nachhaltigkeit - Institute for Sustainability GmbH** to the panel discussion.  
Thank you, **Obaid Amrane**, **Monaco Hydrogen Alliance**

Like · 🌐 3 | Reply | Message



**ENOWA**

25,688 followers  
2w · Edited · 🌐

We are honored to have been strategic partners at this year's Monaco Hydrogen Forum, Led by the Monaco Hydrogen Alliance.

ENOWA's **Roland Kaepfner** Executive Director of Hydrogen, and **Yasmeen Najm**, Innovation Lead, Hydrogen and E-fuels, participated in the jury for the annual Monaco Prize for Innovation in Renewable Hydrogen of which ENOWA was a key sponsor.

The Alliance highlights innovations, research projects, and technological solutions in the hydrogen and mobility sector — and annually gathers the leaders of this emerging global hydrogen ecosystem at the annual Monaco Hydrogen Forum.

Roland also represented ENOWA during a panel discussion on innovation in renewable hydrogen and transportation to scale, where he highlighted the advances ENOWA has made in the field of renewable energy.



**Vincent MAHEO**

Président chez HELION Hydrogen Power  
2w · 🌐

Among 50+ candidates from 16 countries, I am very proud that **HELION Hydrogen Power** has been selected as one of the 6 finalists of the **Monaco Hydrogen Alliance** prize for our FC-Rack Marine, in the presence of His Serene Highness Prince Albert II of Monaco.

It has been a great opportunity to introduce our state-of-the-art industrialized 6th Generation **#hydrogen** fuel cell that builds a bridge across railway, maritime, stationary and off-highway usages.



**Gibson Watts**

4,284 followers  
2w · Edited · 🌐

"Never lose sight of the talent in your business... It is key to your investment strategy to bring in the right people at the right level." 🗣️

This is an excerpt from our CEO **Anne O'Donnell**'s speech yesterday at the Monaco Hydrogen Forum panel discussion: Who should invest? 🗣️

This inaugural event highlighted the ways in which **#greenhydrogen** will decarbonise transportation, with a particular emphasis on new ways to support, finance, and develop research across the field.

All speakers offered a great deal of insight into hydrogen opportunities. With the collaboration of pioneering and forward-looking companies, it is more evident than ever that green hydrogen is key to decarbonising transportation.

A big thank you to **Monaco Hydrogen Alliance** for hosting the event. Anne and our Head of Executive Search, **Josh Smith**, had a fantastic time.

For those of you who would like to find out more about Gibson Watts, watch the video or visit our website below:

<https://lnkd.in/e3my-FR7>

<https://gibsonwatts.com/>

**#MonacoHydrogenForum22 #renewablehydrogen #executivesearch #recruitment**





**Alicia Eastmar**

President InterContinental Energy, Graduate Wharton S...  
2w · Edited ·

The #Monaco Hydrogen Forum does not disappoint!  
Monaco Hydrogen Alliance has pulled together a great group of thought leaders and movers in the #cleanhydrogen and #greenammonia space including #shipping and #mobility. A pleasure to be interviewed by fellow Fletcher alum and Monaco Hydrogen Alliance Board Member Siri Trang Khalsa and of course it wouldn't be a hydrogen conference without David Cavanagh!

Read more about the Forum program here:

<https://monacoh2.org/>



David Cavanagh and 130 others

10 comments · 1 repost



**Matt Stone** · 15h

Partner at McKinsey & Company | Green Hydrogen, Shipping Decarboni...  
1w ·

Earlier this week, I had the privilege of joining the Monaco Hydrogen Alliance's annual Forum to share our insights on shipping decarbonization and global hydrogen flows, alongside my colleague Maurits Waardenburg; and moderating a panel on Stimulating Investment & Deploying Capital to Transform Mobility with panelists RV Ahilan FREng of ABL Group, Stephan Herbst of Toyota Motor Europe, Hechem Nadjar of Enhywhere, and Maria João C. P. Rolim of Rolim, Viotti, Goulart, Cardoso Advogados.

Many thanks to the organizers for the opportunity and for hosting a great event.



You and 87 others



6 comments · 1 repost



**Hechem Nadjar** · 2nd

Experienced climate tech and hydrogen manager and leader

Thanks Monaco Hydrogen Alliance for inviting me, and Matt Stone for facilitating the panel. The quality and reach of the Forum was like no others. I was really impressed by the speakers, the organisation and the presence of H.A.H. Prince Albert II.



**Gokce Mete**

@GokceMe

Just wrapped the @MonacoHydrogen inaugural event, I had great interactions #cleantech innovators and #hydrogen experts.

& behalf of @southpoleglobal and #H2 for #NetZero Initiative, I talked about how #voluntarycarbonmarket #VCM can narrow the finance gap across h2 value chain.



**Pragma Mobility**

1,154 followers

1w ·

[ #MonacoH2Forum ] Retour sur la participation de Pragma Mobility au Monaco Hydrogen Forum cette semaine

🔊 Présentation et essais du #VeloH2

🔧 une présentation de Pierre Forte et Olivier Hautin sur les ambitions de Pragma Mobility

👑 Rencontre et présentation du vélo à hydrogène à Son Altesse Sérénissime, le Prince Albert II

👋 Rencontre avec Jean-Baptiste Djebbari ex-Ministre délégué des Transports et Président du conseil d'Administration d' Hopium

🗣️ Une intervention de Pierre Forte sur Monaco Digital

Une première édition haute en couleurs organisée par Monaco Hydrogen Alliance





# In the News

## Local News


**NEWS.MC**  
Monaco Daily News

**NEWS.MC**  
Monaco Daily News

BUSINESS EVENTS LIVING NEWS SPORT

### MONACO SCORES ANOTHER ENVIRONMENTAL FIRST AT INAUGURAL HYDROGEN SUMMIT

by Staff Writer | Dec 6, 2022 | Environment



The Monaco Hydrogen Alliance, the Monaco-based non-profit association focused on promoting the use of renewable hydrogen in transportation, held the first edition of its annual Monaco Hydrogen Forum on November 21-22, 2022 in the presence of HSH Prince Albert II.

The two-day gathering, the first of its kind anywhere in the world, was attended by over 200 participants from 31 countries, including the notable participations of: Bernard Fautrier, Special Advisor of Prince Albert II, Monaco, Céline Caron-Dagioni, Minister of

## International News

**JDL GROUPE**  
WWW.JDLGROUPE.COM



### PORTUAIRE : GAUSSIN RÉCOMPENSÉ LORS DU MONACO HYDROGEN FORUM

24 NOVEMBRE 2022 • REDACTION • GAUSSIN, HYDROGÈNE, HYDROGÈNE VERT, MARITIME, MONACO, PORTUAIRE, TRANSPORT

Lors du Monaco Hydrogen Forum, Gaussin a été récompensé du prix « Best Cross-Sector Applicability » pour son offre H2 Mobility As A Service, qui vise à accélérer le développement de la mobilité hydrogène dans les ports. Ces derniers représentent en effet un écosystème important pour le développement de la chaîne de valeur de l'hydrogène, et un marché prometteur pour Gaussin. « Avec le projet que nous avons présenté au Forum, et pour lequel nous sommes très fiers d'être récompensés par ce prix, nous visons à proposer aux acteurs portuaires et maritimes une solution globale permettant de décarboner leurs activités tout en se concentrant sur leur cœur de métier », a déclaré Christophe Gaussin, PDG de Gaussin.



**GAZETTE**

GAZETTE POLITIQUE ÉCONOMIE SOCIÉTÉ IMMOBILIER ART & CULTURE SPORT MONASTÈRE

### ENVIRONNEMENT

#### Le « moment » hydrogène

La première édition du Monaco Hydrogen Forum s'est tenue la semaine dernière. Objectif : échanger sur les solutions technologiques qui visent à accélérer la transition énergétique par le biais de l'hydrogène renouvelable. Parmi les intervenants, l'ancien ministre délégué français chargé des Transports, Jean-Baptiste Djebbari.

27 novembre 2022, 18h04



**MONACO**  
HEBDO

**MONACO**  
HEBDO

ACTUALITÉS POLITIQUE ÉCONOMIE DOSSIERS CULTURE

Actualité • Économie • Monaco Hydrogen Forum : « Nous devons aller de l'avant et multiplier les... »

### ECONOMIE

#### Monaco Hydrogen Forum : « Nous devons aller de l'avant et multiplier les solutions d'avenir »

par CLÉMENT MARTINET Publié le 12 décembre 2022 à 10h50

Partager



**INNOVATION** | 24

ESPACE PARTENAIRES • HYDROGÈNE • MAGAZINE HYDROGEN+

**Genevos a reçu le Prix de Monaco pour l'innovation dans le domaine de l'hydrogène renouvelable et du transport**

**Hydrogen** • Central

### AWARDS

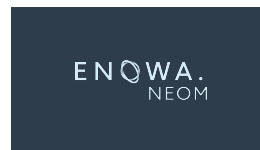
**Genevos awarded Monaco Prize for Innovation in Renewable Hydrogen and Transportation**

# Special Thanks to Our 2022 Partners



Our Partners are fundamental to our work and success. They support us in promoting innovation, guide us towards improving our strategy and development and inspire our mission to decarbonize the transportation sectors and transition towards a greener economy.

## STRATEGIC PARTNER



## FOUNDING PARTNER



## EXPERT PARTNERS

**WILSON  
SONSINI**



## INSTITUTIONAL PARTNERS



## MEDIA PARTNER



## Special Thanks to Our Gala Dinner Co-hosts



We would like to express our gratitude to the Monaco Chamber of Shipping for having co-hosted and sponsored the Gala Dinner of the Inaugural Edition of the Monaco Hydrogen Forum for its attending VIPs, Speakers and Participants.

A big thank you to Mr. Emanuele Lauro – the President of the Chamber, and Advisory Board Member of the Monaco Hydrogen Alliance for his continuous support.





# About the Monaco Hydrogen Alliance



## The world's only platform exclusively dedicated to renewable hydrogen and mobility

The Monaco Hydrogen Alliance is a not-for-profit Association under Monegasque law to promote the use of renewable hydrogen in land, air, and maritime transportation. Alliance members include key public and private hydrogen operators, as well as transportation & mobility industrial leaders and policy makers coming from all over the world.

## Building on Monaco's leadership in Energy Transition

The Monaco Hydrogen Alliance is anchored in the Principality of Monaco, a European state that has long championed the need for a cleaner nature-centered world. The Principality's leadership in Energy Transition and in the fight against climate change — as well as its preeminent global position in the world of motor sports, global shipping and energy trading — make it an **ideal host** for a new and important global conversation on Hydrogen and Mobility.

## Engage With Us On Social Media



[Monaco Hydrogen Alliance](#)



[@MonacoHydrogen](#)

Communicate and engage with us on your social media accounts:

#MonacoHydrogenForum22  
#hydrogenmobility

## Any Other Questions?

Contact us on [info@monacoh2.org](mailto:info@monacoh2.org) to receive more information on our membership options, upcoming events and engagements.

Subscribe to our newsletter and visit the Monaco Hydrogen Alliance Website:  
<https://monacoh2.org>



# MONACO HYDROGEN ALLIANCE

MOVING THE WORLD  
WITH GREEN HYDROGEN

# Thank you!

Monaco Hydrogen Alliance  
7 rue du Gabian  
98000 MONACO

[info@monacoh2.org](mailto:info@monacoh2.org)