

Hydrogen Technologies Association



BULLETIN

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Concessionaire on behalf of Hydrogen Technologies Association

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MESSAGE FROM THE PRESIDENT

Dear Readers,

I am delighted to share with you the exciting developments in the field of hydrogen technologies. In this bulletin, you will find important information about our recent events, scientific studies, and the future of hydrogen.

Hydrogen has evolved beyond being just an energy carrier; it has become one of the fundamental building blocks of sustainable energy systems. Its strategic role in combating climate change and facilitating energy transition is gaining increasing significance worldwide. In this context, the congresses and seminars we organize provide opportunities for knowledge exchange among scientists, industry representatives, and policymakers, paving the way for new collaborations and projects.

Recently, the 9th International Hydrogen Technology Congress (IHTEC-2025) was held in Izmir with substantial participation. Over 400 participants from 25 different countries shared their knowledge and experiences on various topics, from hydrogen production to storage and applications. The congress provided an excellent platform to discuss the role of hydrogen in energy transition and to explore innovative solutions in this field.

We hope this bulletin contributes to ongoing efforts in the field of hydrogen technologies and raises awareness about its potential. As scientists and engineers, we must continue to work together to harness the potential of hydrogen, the energy of the future.

Your feedback and contributions are invaluable to us on this journey. I wish you enjoyable reading!

Best regards,

Prof. Dr. İbrahim Dinçer

*Hydrogen Technologies Association
Chairman of the Board*



LETTER FROM EDITOR

Dear Readers,

I am excited to share the latest developments in the field of hydrogen technologies with you. In this bulletin, you will find important information about our recent events and the future of hydrogen.

Hydrogen plays a critical role as one of the key components of sustainable energy systems, especially in combating climate change and facilitating energy transition. In this context, the congresses and seminars we organize provide opportunities for knowledge exchange among scientists, industry representatives, and policymakers, paving the way for new collaborations.

Notably, the 9th International Hydrogen Technology Congress (IHTEC-2025) was held successfully. This congress offered an excellent platform to explore hydrogen's potential and discuss innovative

solutions in this field. Participants shared insights on various topics, from hydrogen production to storage.

We hope this bulletin raises awareness about hydrogen technologies and contributes to ongoing efforts in this area. I firmly believe that scientific research and engineering applications will play a significant role in shaping the energy systems of the future.

Wishing you enjoyable reading!

Best regards,

İnci Eroğlu

Editor



9th International Hydrogen Technology Congress (IHTEC-2025)

The **9th International Hydrogen Technology Congress (IHTEC-2025)**, organized by **Dokuz Eylül University** and the **Hydrogen Technologies Association** in **İzmir from May 25 to 28, 2025**, was successfully held, with more than 400 participants from 25 different countries. The congress brought together scientists, industry representatives, and policymakers from around the world to discuss the strategic role of hydrogen in combating climate change and facilitating the energy transition.

During the congress:

- **269 oral presentations** and **73 poster** presentations were made,
- Presentations were organized under **36 thematic sessions, two special sessions, two panels, and one workshop**.
- Participants had the opportunity to discuss the latest developments in many application areas, from hydrogen production to storage, transportation, and the defense industry.

The opening speeches were delivered by the conference co-chairs, Prof. Dr. Can Özgür Çolpan and Prof. Dr. Azize Ayol, the rector of Dokuz Eylül University, Prof. Dr. Bayram Yılmaz, and the Governor of İzmir, Dr. Süleyman Elban. During the opening session, Prof. Dr. İbrahim Dinçer, President of the Hydrogen Technologies Association, delivered a speech on the association's activities and the strategic importance of hydrogen. Following this, Dr. Abdullah Buğrahan Karaveli, President of the Turkish Energy, Nuclear and Mining Research Institute (TENMAK), shared his insights on the role of hydrogen in Turkey's long-term energy strategies. Highlights of the conference included:

- Assessments of hydrogen research and innovation in Europe by **Prof. Dr. Luigi Crema, President of Hydrogen Europe Research**,
- Strategies for energy decarbonization by **Prof. Dr. Adélio Mendes from the University of Porto**,
- Invited speeches by leading figures in the field, including **Prof. Dr. John Irvine from the University of St Andrews**, **Prof. Dr. Eileen Yu from the University of Southampton**, and **Prof. Dr. Feridun Hamdullahpur from the University of Waterloo**.

Additionally:

- A special session titled **"Hydrogen Production, Separation, and Utilization Using Membrane Technologies,"**
- A workshop titled **"Innovations in Hydrogen-Based Processes and Technologies,"**
- A panel discussion titled **"Hydrogen Technologies in the Defense Industry"** was followed with great interest.

The **Opening Reception** and **Congress Gala Dinner**, organized as part of the social program, made a significant contribution to fostering cooperation opportunities among participants.

We would like to thank **TENMAK, ARMELSAN Energy, HABAŞ, Anton Paar, Hydrogenix**, the **International Association of Hydrogen Energy, Bp-las, Doğu, Koç University Hydrogen Technologies Center, TÜBİTAK**, and other supporters for their contributions to the organization of the congress.

For more information, please visit the congress website:

www.ihtec2025.org



ICCI 2025 | International Energy and Environment Fair and Conference

● Istanbul Fair Center | 📅 Successfully held on April 24–26, 2025.

◆ Prof. Dr. İbrahim Dinçer, President of the Hydrogen Technologies Association and recognized worldwide for his pioneering work in the field of hydrogen energy, added value to ICCI 2025 with his presentation titled “The Role of Hydrogen in Shaping the New World.”

● **Panel: The Impact of Hydrogen on Industrial Transformation**

🗣️ Moderator: Prof. Dr. Adnan Midilli

Participants: Hüseyin Kerem Öner (GMKA), Hüseyin Devrim (Teksis), İbrahim Pamuk (Lentatek)

🔧 **Panel: Industry's Carbon Test**

🗣️ Moderator: Prof. Dr. Filiz Karaosmanoğlu

Participants: Alper Kocagökçen (İlteknö), Aslıhan Selenk (Borusan Makina), İsmail Gökcalp (Akçansa), Tuğçe Can (We Soda)

More information: <https://icci.com.tr/icci-konferans-programi-2025/>



WIN EURASIA 2025 Highlights Sustainable Future with Hydrogen Technologies



Held at the Istanbul Exhibition Center from May 28 to 31, 2025, WIN EURASIA once again brought together industry professionals, suppliers, and purchasing experts from around the world. As the region's largest international automation and machinery technology fair, WIN EURASIA 2025 particularly stood out with its Hydrogen and Fuel Cells Special Area.



During the panels and sessions at the fair, the role of hydrogen technologies in sustainable industrial transformation was thoroughly discussed. Prof. Dr. İbrahim Dinçer, President of the Hydrogen Technologies Association, delivered the opening speech

at the session titled “Innovative Hydrogen Technologies for a Sustainable Future,” highlighting that hydrogen is not just an energy carrier but also a key component of future energy systems.



The follow-up session titled “Industrial Transformation and the Role of Hydrogen” was moderated by Prof. Dr. Adnan Midilli from the Energy Institute at Istanbul Technical University. Speakers at the session included Prof. Dr. İbrahim Dinçer, Lentatek Hydrogen and Fuel Cell Technologies Coordinator İbrahim Pamuk, and Teksis General Manager Hüseyin Devrim. The panel discussed topics such as decarbonization in industry, hydrogen production combined with renewable energy, and how technological advancements influence investment processes.

Another notable event at the fair was the panel titled “Factors Driving Decarbonization in Turkish Industry and the Role of Hydrogen,” hosted by the Istanbul Chamber

of Industry. The session, moderated by Koç University KUHYTECH Director Assoc. Prof. Dr. Sarp Kaya, featured speakers including Aygaz Sustainability Director Esin Çınar, Ford Otosan R&D Senior Specialist Dr. Emrah Kınay, and Yıldız Technical University Clean Energy Technologies Institute Director Prof. Dr. Aysel Kantürk Figen. The panel discussed the critical role hydrogen will play in Turkey's efforts to achieve its net-zero targets, emphasizing the importance of academia-industry collaboration in this transformation.

Participants noted that hydrogen technologies have the potential to drive transformation not only in the energy sector but also across various fields, including industrial production, transportation, infrastructure, and urban planning.

WIN EURASIA 2025 has gone beyond just an exhibition this year, becoming an international platform that emphasizes the strategic importance of hydrogen in creating a sustainable and low-carbon future.



Manufacturing Industry Gathered at WIN EURASIA



WIN EURASIA, the hub where technologies shape the future of manufacturing, was held at the Istanbul Expo Center from May 28 to 31, 2025. With the slogan "Driven by Automation," the trade fair brought together over 700 brands from 14 countries, drawing 40,243 visitors and more than 200 hosted buyers. Covering areas such as electrical and energy automation, robotic technologies, digital factories, welding systems, and more, the trade fair generated millions of dollars in business and once again proved to be a key platform for the industry.

WIN EURASIA, which has supported the industrial transformation journey for 31 years with consistent growth, was held at the Istanbul Expo Center under the theme "Driven by Automation." The trade fair's opening ceremony, which promotes the transformation of the manufacturing industry, was attended by Deputy Minister of Industry and Technology Zekeriya Çoştı, President of the Istanbul Chamber of Commerce (ITO) Şekib Avdagiç, Chairman of the Turkish Machinery Federation (MAKFED) Adnan Dalgakıran, and Chairman of Hannover Fairs Turkey Annika Klar.

Hosted in six halls covering a total area of 55,000 m², the trade fair welcomed over 700 exhibiting brands and 40,243 visitors. It featured B2B meetings and created opportunities for multi-million-dollar new business partnerships. International exhibitors from Germany, China, Denmark, France, India, Italy, Spain, Japan, Korea, Serbia, Slovakia, Saudi Arabia, and Taiwan participated. This year, Saudi Arabia joined for the first time with a national pavilion.

Smart Production Technologies from 5G to Artificial Intelligence were Showcased

As part of WIN EURASIA 2025, the Industrial Artificial Intelligence Special Area and the 5G Arena, created in partnership with Türk Telekom and Nokia, gave visitors the opportunity to experience cutting-edge technologies firsthand. This special platform, featuring over 40 brands, showcased 5G integrations and AI-supported smart production models developed to international standards. Using Nokia's Digital Automation Cloud (DAC) technology to establish a 5G coverage area, live demonstrations of industrial use cases were conducted in real-time.

Female Welders Stood Out with Live Demonstrations

The Welding Application Special Area, which showcased the latest advancements in welding technology, attracted attention with live demonstrations and panel discussions. Companies performed live welding demonstrations in their designated spaces, allowing visitors to experience the technologies firsthand. Additionally, thanks to collaborations with universities and vocational institutions, industry-focused panel sessions were held. One of the most memorable moments was a live welding demonstration by the woman artist collective Atölye20, highlighting the powerful intersection of industry and art.

Hydrogen and Power Transmission Technologies Took Center Stage

Hydrogen and fuel cell technologies, which play a strategic role in the transition to renewable energy, were highlighted in a dedicated Hydrogen and Fuel Cells special area. Companies offering solutions and services in this field showcased their products and technologies. Power transmission technologies were also examined in detail through a special forum area created in collaboration with Moneta Publishing. The forum featured expert speakers who discussed the latest developments and application examples from various industries.



"Industry & Art" Inspired Visitors

This year, WIN EURASIA celebrated the "Industry & Art" theme. This special project, which merged industry and art, inspired visitors through a series of impressive events. Renowned poet and author Sunay Akın gave a talk titled "Industry & Art," where he discussed how art influences industry and vice versa, sharing human stories from both worlds in his unique style. Artist Bager Akbay showcased the fusion of art and technology in his presentation, "Robots That Paint," where his specially developed robotic arm performed live painting sessions throughout the trade fair. Additionally, the Metal Sculpture Exhibition by Atölye20 demonstrated how industrial materials can be transformed into visually appealing art. Curated by Atölye20 founders Sevgi and Hayri Karay, the exhibition featured striking works by artists such as Arzu Ertekin Demir, Pembe Tüzüner, Nilüfer Şatana, Neslihan Demircioğlu, Aysun Erten, Şule Zeybek, and Özlem Baser.



The B2B platform, honored with the Strategic Transformation Award, took the trade fair experience to the next level

With the WIN EURASIA B2B platform, which received the Strategic Transformation Award, exhibitors and visitors were connected through AI-powered smart matching algorithms based on their interests, which were made accessible on the platform prior to the event. Premium-positioned companies significantly increased both booth traffic and brand visibility thanks to advanced digital services. A total of 1,137 B2B meetings have been organized through the platform, resulting in concrete business collaborations at the trade fair, highlighting the event's commercial success.

Projects Shaping the Future Were Awarded

The WINovation Competition, held in collaboration with ENOSAD as part of WIN EURASIA, rewarded innovative ideas. Projects competing across 10 categories, from production to design and from services to social innovation, stood out with their potential to shape the future. Among the finalists, E3 Tam won first place with its Automatic Rim Recognition and Finishing System, Conrad took second place with its A2-GEO metal detector, and MIS Automation came third with its Inspect People project.

Business Opportunities with Saudi Arabia Were Explored



Saudi Arabia participated for the first time with a national pavilion at WIN EURASIA,

showcasing its transformation in the industrial sector through advanced production technologies to the audience. The pavilion featured major institutions such as the Ministry of Industry and Mineral Resources (MIM), the Authority for Industrial Cities and Technology Zones (MODON), the Saudi Industrial Development Fund (SIDF), the National Industrial Development Center, the Saudi Export Development Authority, and the Royal Commission for Jubail and Yanbu.

Information about large-scale investments and industrial transformation in sectors like automotive, aviation, renewable energy, and food production was shared. During a special networking event on May 29, deputy ministers from the Ministry of Industry and Mineral Resources presented Saudi Arabia's strategic roadmap toward advanced manufacturing solutions. The event covered topics such as digitalization, automation, the integration of smart production systems, and opportunities for international cooperation.



WIN EURASIA Will Bring the

Industry Together on June 10-13, 2026

WIN EURASIA will bring the industry professionals together again at the Istanbul Expo Center between June 10-13, 2026, and offer four days full of new business connections, global collaborations, and technology-shaping innovations.

Leading Names in Science Honored with Awards at IHTEC 2025

The 9th International Hydrogen Technologies Congress (IHTEC2025) served as an important platform bringing together science and technology, while pioneering figures who have contributed to the field of hydrogen technologies were honored with special awards.

The awards presented at the congress highlighted the efforts of scientists and organizations working toward a sustainable future. Participants from all over Turkey and abroad experienced a mix of excitement and pride at the award ceremony.



Nejat Veziroğlu Special Award

This award was created on behalf of Prof. Dr. Nejat Veziroğlu, who is an international leader in hydrogen energy, the father of hydrogen technologies, and the permanent honorary president of the Hydrogen Technologies Association. It is given to people who have proven themselves in the field of hydrogen energy and technologies both domestically and internationally and have made internationally recognized contributions.

Service Award of Hydrogen Technologies Association

This award is given to the people who have dedicated themselves to hydrogen energy and have served for at least 20 years in the development and application of this field, have contributed to the communal, social, technological, and economic development of the country in this field, have been a pioneer in the education and training of youth, have made institutional contributions and are active in industrial applications.

Technology Award

This award has been created for institutions that work effectively on hydrogen energy technologies and develop technologies. It is given to institutions that develop a product for the development of hydrogen technology, establish a pilot or industrial facility in the field of hydrogen energy and technologies, have patents in the field of hydrogen energy and technologies or support technology development.

Young Researcher Award

This award has been created for researchers, who are under the age of 35 (not more than 35 years old as of the date of the IHTEC-2025 conference, where the award will be given) and have at least a master's degree. It is given to people who have done successful studies on hydrogen energy technologies that are recognized at the national and international levels.

Student Researcher Award

This award is given to undergraduate, graduate, or doctoral students. Candidates are expected to be under the age of 30 as of the date of the IHTEC-2025 conference, where the award will be given. The candidates who will be nominated for this award or who will apply themselves, will be preferred for this award if they have developed an invention, a new application, or a unique method for hydrogen technologies.

The winners of these awards will be invited to the conference where they will attend the award ceremony. Conference registration fee and accommodation expenses will be covered by the association.

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More information and application:
www.hidrojenteknolojileri.org



Here are the IHTEC2025 Award Winners:

Nejat Veziroğlu Special Award

Prof. Dr. Önder Metin
Koç University, Faculty of Science,
Department of Chemistry

Prof. Dr. Metin, who has attracted attention with his original and highly effective work on hydrogen technologies, was deemed worthy of this special award.



Prof. Dr. Önder Metin

Dr. Önder Metin received his B.Sc. degree from the Department of Chemistry at Çukurova University in 2002. He earned his M.Sc. and Ph.D. degrees in 2006 and 2010, respectively, from the Department of Chemistry at the Graduate School of Natural and Applied Sciences, Middle East Technical University (METU), under the Faculty Development Program (ÖYP). During his doctoral studies, he conducted experimental research at Brown University, Department of Chemistry (Rhode Island, USA) in 2009 as a TÜBİTAK fellow, and at the Technical University of Darmstadt (Germany) in 2010. Between 2012 and 2013, he worked as a postdoctoral researcher at Brown University, Department of Chemistry. After serving as a faculty member at the Department of Chemistry, Faculty of Science, Atatürk University from 2011 to 2018, he joined the Department of Chemistry at Koç University in 2018.

In recognition of his significant contributions to both national and international scientific research, Dr. Önder Metin has received numerous awards. These include the METU Parlar Foundation "Research Encouragement Award" in 2013, the TÜBA-GE-BİP Award in 2014, the TÜBİTAK Encouragement Award in 2017, and the Science Academy's BAGEP Award in 2017. Since July 2018, he has been an elected Associate Member of the Turkish Academy of Sciences (TÜBA). Since January 2018, he has served



as the national representative (Titular Member) of Turkey in the field of Inorganic Chemistry within the International Union of Pure and Applied Chemistry (IUPAC). Since 2023, he has also been serving as the Secretary General of the Federation of Asian Chemical Societies (FACS). Since 2022, he has been serving as Associate Editor-in-Chief of the Turkish Journal of Chemistry, which is indexed in SCI-E and published by TÜBİTAK.

Throughout his academic career, Dr. Önder Metin has conducted pioneering and influential research across various fields related to hydrogen technologies. His M.Sc. and Ph.D. work focused on synthesizing transition metal nanocatalysts for hydrogen production from chemical hydrogen storage materials. During his postdoctoral studies at Brown University, he focused on developing nanocatalysts for hydrogen production from formic acid, electrochemical oxidation of formic acid and methanol, and the oxygen reduction reaction (ORR). Since 2013, he has continued to develop new hydrogen storage materials and nanocatalysts for hydrogen production and hydrogen fuel cell reactions with his research group in Turkey. He has published extensively in highly prestigious, high-impact-factor journals within his field. To date, Dr. Önder Metin has authored over 160 publications in SCI-indexed journals, 66 of which are related to hydrogen technologies. His publications have received a total of 10,580 citations, and his current h-index is 53. His most cited articles are pioneering contributions in the field of hydrogen technologies.

Leading Names in Science Honored with Awards at IHTEC 2025

Service Award

Prof. Dr. Gülfeza Kardaş,
Çukurova University, Department of Chemistry

She was recognized for her long-standing contributions to the field and her support for education and academic production.



Prof. Dr. Gülfeza Kardaş

Prof. Dr. Gülfeza Kardaş is a faculty member in the Department of Chemistry at the Faculty of Arts and Sciences, Çukurova University. She completed her BSc, MSc, and PhD degrees at the same university. Her academic career began in 1992 with a master's thesis on hydrogen production, and she has been conducting research in the field of hydrogen and electrochemical technologies for over 30 years.

Her research mainly focuses on alkaline water electrolysis, electrocatalysts, and surface coating technologies. She has published over 100 articles in internationally renowned peer-reviewed journals and has supervised 11 PhD students in the fields of hydrogen and electrochemistry.

Currently, she is leading a TÜBİTAK 2247-A National Outstanding Researchers Program project titled "Development of Efficient Catalysts and Anion Exchange Membranes for Green Hydrogen Production." She also holds three registered patents developed through industrial collaborations on lithium-ion batteries and alkaline electrolyzer systems.

Being honored with the "National Hydrogen Association Service Award" at a prestigious international platform like IHTEC2025 is profoundly meaningful, as it signifies recognition not only of my scientific efforts but also of our country's contributions to this vital field. I regard this award not merely as a recognition of past achievements, but as a symbol of trust and collaboration for the future. I accept it with great pride on behalf of all my students and research colleagues.

We remain committed to contributing to innovative research that will strengthen hydrogen's role in the green transition.

I respectfully and gratefully commemorate Prof. Dr. Nejat Veziroğlu, a pioneer in hydrogen technologies who has made a tremendous impact on all of us, and I sincerely thank everyone who has contributed to this journey.

Technology Award

Viona Consultancy
Viona Inc., Kanada

He stood out for his innovative approaches in the industrial field and his application-oriented solutions in hydrogen technologies.

Viona Consultancy (Ali Khalvati) – Viona Inc., Kanada

Viona Consultancy stands out in the industrial sector with its innovative approaches and practical solutions in hydrogen technologies. Under the leadership of Ali Khalvati, Viona Inc. supports the transformation in the industry with its cutting-edge solutions for hydrogen production, storage, and transportation, making significant contributions to the development of sustainable energy systems.

Viona places great importance on research and development activities to maximize the potential of hydrogen technologies. The company aims to strengthen the role of hydrogen in the energy sector by establishing collaborations at both local and international levels. Additionally, Viona is committed to developing environmentally friendly production methods to minimize the environmental impacts of hydrogen and to raise awareness in this field.

By providing tailored solutions to its clients, Viona Consultancy addresses the industry's needs and promotes the practical applications of hydrogen technologies. The company's vision is to ensure that hydrogen plays a central role in the clean energy future and to disseminate innovative applications in this area. Viona continues its efforts to make the most of the opportunities that hydrogen presents for a sustainable future.

Young Researcher Award

Dr. Yaşar Karataş
Van Yüzüncü Yıl Üniversitesi, Kimya Bölümü

Despite his young age, he made a significant impact with his remarkable academic achievements and energy.



Dr. Yaşar Karataş:

I graduated from Van Yüzüncü Yıl University, Faculty of Science, Department of Chemistry, between 2008 and 2012. I completed my master's degree in Chemistry / Inorganic Chemistry at Van Yüzüncü Yıl University, Institute of Science and Technology, from 2012 to 2014, and I also earned my PhD in Chemistry / Inorganic Chemistry at the same institute during the same period. As a faculty member at Van Yüzüncü Yıl University Muradiye Vocational School, my research during my master's and doctorate focused on obtaining hydrogen through catalytic processes. Additionally, I used boron-based chemicals, which are significant for our country, in my studies. Many of these studies, which are important for the 'hydrogen economy,' have been published in highly reputable scientific journals such as ACS Catalysis, International Journal of Hydrogen Energy, Applied Catalysis B, and the International Journal of Energy Research. I have authored 38 articles, 2 national research articles, 4 book chapters, and 61 papers. To date, my research articles have been cited 1,089 times according to Web of Science (h-index: 19), 1,226 times according to Scopus (h-index: 21), and 13261 times according to Google Scholar (h-index: 21).

The 2025 Young Researcher of the Year Award, which I was honored with by the Hydrogen Technologies Association, is not only a certificate of achievement for me; it is a meaningful reflection of my years of effort, belief, and patience. This award is the result of continuing the journey I began with scientific curiosity, not giving up despite the difficulties I faced, being passionate about research, and wanting to contribute to our country's energy future. This recognition of my work under Van Yüzüncü Yıl University is both a great honor and an even greater responsibility for me. This award is a strong source of motivation both now and for my future endeavors.

On the occasion of this meaningful award, I would like to sincerely thank my academic advisors, my colleagues, and all my professors at Van Yüzüncü Yıl University. I owe the biggest thanks to my beloved wife, who is always by my side, and my precious child, who inspires me with every look. Without their patience, love, and support, this success would not have been possible. I am also sincerely grateful to everyone who believed in me and contributed to my success. This award is not only my achievement, but also the common success of everyone I have walked the road with.

My greatest hope for the future is that hydrogen and renewable energy technologies become sustainable solutions not only in laboratories but also in our daily lives. Given scientific advancements, I will continue to work hard to develop environmentally friendly, innovative, and people-centered energy systems. This award shows that I am still at the beginning of the journey, but I am on the right track. I hope future generations will live in a cleaner world, one closely connected with science.

Leading Names in Science Honored with Awards at IHTEC 2025

Student Researcher Award

Emin Serhat Akyüz,
Osmaniye Korkut Ata University, Faculty of Engineering

He has earned his place among future scientists with his high-quality research.

The conference organizers congratulated all award recipients and expressed their hope that their scientific work would continue to progress. These individuals, who play a crucial role in shaping the hydrogen economy, have given hope for the future with their inspiring efforts.



Emin Serhat AKYÜZ

Emin Serhat AKYÜZ, who received the "Student Researcher Award" from the Hydrogen Technologies Association, graduated as the top student from Necmettin Erbakan University's Department of Energy Systems Engineering in 2018.

In the same year, he started his master's studies and, while progressing steadily in his academic career, he also gained valuable industrial experience by working as the After-Sales Services Manager at Akkaya Boilers, one of the leading companies in the industry, for three years. His master's thesis focused on an Organic Rankine Cycle (ORC) system that generates energy by recovering waste flue gas from an industrial feed plant in Konya. With this original research, he demonstrated both his academic skills and practical application abilities.

Continuing his pursuit of an academic career, Mr. AKYÜZ was appointed as a research assistant in the Department of Energy Systems Engineering at Osmaniye Korkut Ata University in 2022. His interest in carbon-free and green energy further deepened during this time. He became familiar with hydrogen energy through his Ph.D. studies, conducted in collaboration with the faculty of the newly established "Battery Systems and Hydrogen Technologies" division. Mr. Akyüz actively contributed to the formation of the Electrovision research group, which includes TÜBİTAK scholarship-awarded master's students at the university's Central Laboratory under the supervision of Prof. Dr. Esra TELLİ and As-

soc. Prof. Dr. Murat Farsak.

By mentoring young researchers and conducting numerous studies on battery systems and green hydrogen energy, he shared his findings at international conferences and published articles in top-tier (Q1) journals indexed in SCL, making significant contributions to the field of hydrogen energy.

Additionally, as a YLSY scholarship recipient from the Turkish Ministry of National Education (MoNE), Mr. AKYÜZ plans to pursue his doctoral studies abroad in the fields of green hydrogen production, energy storage technologies, and innovative materials. By maintaining his long-standing collaborations with industry, he has served as a bridge between academia and leading hydrogen companies in Turkey, making significant contributions to his research group's involvement in various EU and HORIZON projects.

As a result of his dedicated work and impactful efforts, Mr. AKYÜZ received the "Student Researcher Award" at the International Hydrogen Technologies Congress held at Dokuz Eylül University in May 2025, presented by the Hydrogen Technologies Association.

Emin Serhat AKYÜZ expresses his deep gratitude for receiving this prestigious award, saying that it will serve as a great motivation for his future endeavors. He extends heartfelt thanks to his wife, family, esteemed mentors, and the research team with whom he has shared this journey.

NEW CORPORATE MEMBERS

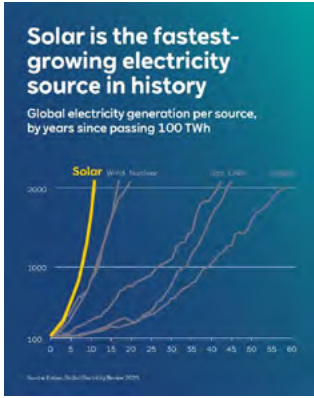
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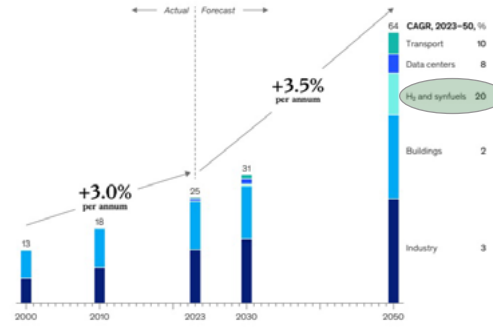
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Hydrogen Production is projected to see rapid growth in power demand
GLOBAL POWER DEMAND - HISTORICAL AND FORECAST (THOUSAND TWH)



Source: Ember, Global Electricity Review 2025, Global Energy Perspective 2024, McKinsey, September 17, 2024, Action Title and Subtitle by LCF KULOĞLU

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LCF KULOĞLU GES Yatırımları A.Ş., is an Istanbul-based investment and engineering firm. Founded in 2011 by Bernhard Beck, Cenap Kuloğlu, and their partners, the company aims to support a low-carbon future (LCF) by advancing renewable energy projects to Ready-to-Build (RTB) status. It focuses on clean hydrogen and ammonia production, powered by locally developed solar and wind plants with co-located battery storage systems.

LCF KULOĞLU advances projects to Ready-to-Build status by developing greenfield solar PV and wind power projects through a precise, analytical process. The company's strategy involves working directly with landowners from the initial identification of land parcels through the whole permitting process, as well as managing the construction and operational phases. **LCF KULOĞLU** focuses on securing financing and applying best-in-class engineering for solar power plants with co-located battery energy storage systems. This approach ensures speed, certainty, and tangible results in delivering RTB-ready projects.

The company's management team brings over 100 years of combined experience in PV solar and battery energy storage. **LCF KULOĞLU** aims to generate de-risked cash flows and deliver long-term, stable returns to its co-investing partners. Under the leadership of Mr. Cenap Kuloğlu, the team is recognized for its proven first-mover capabilities and rigorous project development methodology, having formed partnerships with notable firms including Global Holding, Fortum, and SunPower.

LCF KULOĞLU is developing two clean hydrogen and ammonia projects in Türkiye: One with a **2 x 25 MW** capacity, producing **7,000 tonnes of clean hydrogen** annually and avoiding approximately **66,500 tonnes of CO₂ emissions**. Another with a **5 x 25 MW** capacity, producing **100,000 tonnes of clean ammonia** per year, which avoids approximately **180,000 tonnes of CO₂ emissions**. These projects support Türkiye's climate goals and align with the **EU Green Deal** objectives.

In essence, **LCF KULOĞLU GES Yatırımları A.Ş.** is a specialized company focused

on renewable energy investment and project development, with a primary emphasis on clean hydrogen and ammonia production assets. These assets are powered by in-house-developed solar and wind power plants, integrated with co-located battery storage systems to support sustainable energy transition objectives.

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The excitement of the new season has begun at Hydrogen Talks

Organized by the Hydrogen Technologies Association (HTD) and bringing together key figures in the industry, the "Hydrogen Talks" program has made a strong start to its third season. This special interview series, broadcast live on the HTD YouTube channel, addressed the latest developments in hydrogen technologies and national and international visions in April and May.

The first episode of the new season aired on April 15, 2025, featuring HTD Board Chairman Prof. Dr. İbrahim Dinçer. Hosted by Prof. Dr. Adnan Midilli, the episode titled "New Processes with Hydrogen" examined how hydrogen technologies are transforming industrial processes and expanding into new applications.

In the second episode, held on April

29, Dr. Ayfer Veziroğlu, a global pioneer in hydrogen energy, was a guest. In the interview titled "Developments and Trends in Hydrogen Technologies," attended by Dr. Veziroğlu, President of IAHE and HEPLLC, the latest developments worldwide and projections for the future were discussed. Dr. Şule Kapkın, an Assistant Professor, moderated the program.

On May 6, 2025, Dr. Abdullah Buğrahan Karaveli, President of the Turkish Energy, Nuclear, and Mining Research Institute (TENMAK), appeared as a guest on the third program. During the talk titled "TENMAK's Energy Vision and Hydrogen," Turkey's hydrogen energy strategies, research investments, and roadmap were discussed in detail. The session was once again moderated by Prof. Dr. Adnan Midilli.

The fourth and final program of the series aired on May 14, 2025. The guest of the episode titled "Hydrogen Energy Systems in Turkey: World-Class Studies from METU" was Prof. Dr. İnci Eroğlu, a member of the Board of Directors of the International Hydrogen Energy Association and vice president of the National Hydrogen Association. In the program, moderated by Dr. Şule Kapkın, METU's international achievements in hydrogen energy and Turkey's potential in this field were discussed.

Each episode continues to shed light on the sector by bringing together different perspectives, visions, and collaborations in the field of hydrogen technologies. New episodes and reruns of Hydrogen Talks are available to watch on HTD's official YouTube channel.

[Click here to see full episodes.](http://bit.ly/H2TDYoutube)

Hidrojen Sohbetleri
3. Sezon Açılışı
"HİDROJENLE YENİ SÜREÇLER"
KONUK: Prof. Dr. İbrahim DİNÇER
HTD Board Başkanı
Yatırım Kurulu Başkanı
Moderatör: Prof. Dr. Adnan MIDİLLİ
15 Nisan 2025 Salı
Saat: 21.00
Canlı Yayın HTD Youtube Kanalı
<http://bit.ly/H2TDYoutube>

Hidrojen Sohbetleri
32. Bölüm
"Hidrojen Teknolojilerindeki gelişmeler ve eğilimler"
KONUK: Dr. Ayfer VEZİROĞLU
Sakarya Üniversitesi Enerji Enstitüsü (IAHE) Başkanı ve
Hydrogen Energy Publications Ltd. (HEPLLC) Başkanı
Moderatör: Dr. Öğr. Üyesi Şule KAPKIN
İstanbul Üniversitesi Enerji Enstitüsü
Mühendislik Fakültesi
Makine Mühendisliği Bölümü
Enerji AED Başkanı
29 Nisan 2025
Saat: 21.00
Canlı Yayın HTD Youtube Kanalı
<http://bit.ly/H2TDYoutube>

Hidrojen Sohbetleri
34. Bölüm
"Türkiyede Hidrojen Enerji Sistemleri: ÖDTÜ'den Dünya Çapında Çalışmalar"
KONUK: Prof. Dr. İnci EROĞLU
Uludağ Üniversitesi Enerji Enstitüsü
Yatırım Kurulu Üyesi
ÖDTÜ Enerji İşletme Üyesi
Moderatör: Dr. Öğr. Üyesi Şule KAPKIN
İstanbul Üniversitesi Enerji Enstitüsü
Mühendislik Fakültesi
Makine Mühendisliği Bölümü
Enerji AED Başkanı
14 Mayıs 2025
Saat: 21.00
Canlı Yayın HTD Youtube Kanalı
<http://bit.ly/H2TDYoutube>

Hidrojen Sohbetleri
33. Bölüm
"TENMAK'IN ENERJİ VİZYONU VE HİDROJEN"
KONUK: Dr. Abdullah Buğrahan KARAVELİ
TENMAK Başkanı
Moderatör: Prof. Dr. Adnan MIDİLLİ
6 Mayıs 2025
Saat: 21.00
Canlı Yayın HTD Youtube Kanalı
<http://bit.ly/H2TDYoutube>

Hidrojen Sohbetleri
35. Bölüm
"Hidrojen Endüstrisi ve WIN EURASIA"
Moderatör: Prof. Dr. Adnan MIDİLLİ
KONUK: Pauline Seyfert
Bosch Enerji Sistemleri
KONUK: Sena Mengül
WIN Eurasia Proje Yürütücüsü
Head of WIN EURASIA
17 Haziran 2025 / Saat: 21.00
Canlı Yayın HTD Youtube Kanalı
<http://bit.ly/H2TDYoutube>

Hidrojen Sohbetleri
36. Bölüm
"Hidrojenin Geleceğinde Bor ve Katalizör Teknolojileri: Stratejik Yol Haritası"
Moderatör: Dr. Öğr. Üyesi Şule KAPKIN
İstanbul Üniversitesi Enerji Enstitüsü
Mühendislik Fakültesi
Makine Mühendisliği Bölümü
Enerji AED Başkanı
KONUK: Prof. Dr. Ayşel Kantürk Figen
YÜT Kırıya Mühendislik
Sistem Enerji Sistemleri
Endüstriyel Mühendislik
25 Haziran 2025 / Saat: 21.00
Canlı Yayın HTD Youtube Kanalı
<http://bit.ly/H2TDYoutube>

Hydrogen Industry Coordination Council Begins Work

The Hydrogen Technologies Association has formed the Hydrogen Industry Coordination Board to develop hydrogen-focused industrial policies and enhance cooperation across sectors. Made up of academics from diverse fields, private sector representatives, and energy experts, the board aims to support Turkey's hydrogen strategies and help create roadmaps for implementation.

Board Coordinator:

Prof. Dr. Adnan Midilli

Istanbul Technical University – Istanbul / Turkey

Board Members:

- Prof. Dr. Arif Hepbaşlı – Yaşar University / İzmir
- Prof. Dr. Alirıza Arslan – Hydrogenix / Istanbul
- Prof. Dr. Bestami Özkaya – Yıldız Technical University / Istanbul
- Prof. Dr. Ramazan Solmaz – Bingöl University / Bingöl
- Assoc. Prof. Dr. Mahmut Temel Özdemir – Fırat University / Elazığ
- Hüseyin Devrim – TEK-SİS / Ankara
- Yavuz Aydın – ENERKO / Istanbul
- Tamer Emre – Akenerji / Istanbul
- İbrahim Pamuk – Lentatek / Ankara
- Gürsel Kızıloğlu – GK Müşavirlik Enerji Ltd. Şti. / Istanbul
- Sedat Akar – Topkapı Endüstri / İzmir

The Council aims to enhance industry-university cooperation, identify strategic directions in hydrogen technologies, and contribute to our country's green transformation objectives. It will also develop recommendations for creating mechanisms that support technological developments in all processes, from hydrogen production to storage, transportation, and final use.

The priorities identified at the committee's first meeting included creating sector-specific roadmaps, developing incentive models, strengthening the investment climate, and enhancing human resources.

The work of the Hydrogen Industry Coordination Board aims to promote our country's hydrogen vision by establishing a strong foundation for collaboration among the public, academic, and private sectors, aligned with the projects undertaken by the association.

In addition, the Media and Communication Committee, established to ensure that the public has access to accurate and understandable information about hydrogen technologies, will also play an active role in disseminating the association's activities with transparency.

Committee Coordinator:

Prof. Dr. Bestami Özkaya – Yıldız Technical University / Istanbul

Committee Members:

- Prof. Dr. Ramazan Solmaz – Bingöl Üniversitesi / Bingöl
- Assoc. Prof. Dr. Mahmut Temel Özdemir – Fırat University / Elazığ

The Committee will undertake tasks such as disseminating both academic and sectoral content to a wide audience, developing digital media and publication strategies, and conducting public awareness campaigns.

Hydrogen Technologies Association Appoints New Board of Directors



The Hydrogen Technologies Association elected its new board of directors and supervisory board at its Ordinary General Assembly meeting held at Dokuz Eylül University on May 25, 2025.

The new board of directors consists of the following members:

- President: İbrahim Dinçer
- Vice President: İnci Eroğlu
- Secretary General: Adnan Midilli
- Treasurer: Mehmet Karakılıç
- Regular Members: Aysel Figen Kantürk, Filiz Karaosmanoğlu, Can Özgür Çolpan, Bestami Özkaya, Ramazan Solmaz, Ali Rıza Arslan
- **Board of Directors Alternate Members:**
Mahmut Temel Özdemir, Hasan Sadıkoğlu, Zehra Yumurtacı, Halit Eren Figen, Bilge Coşkun Filiz
- **Audit Committee Regular Members:**
Hüseyin Turan Arat, Fatih Sorgulu, Merve Öztürk
- **Audit Committee Alternate Members:**
Nader Javani, M. İlberia Aydın, Kübra Sorgulu

The meeting was successfully led by the presiding committee, chaired by Fatih Yılmaz and supported by Vice President Mehmet Akif Ezan and Secretary Kaan Baltacıoğlu. After addressing the agenda items, the meeting concluded with hopes and best wishes for the future.

The newly elected board of directors will continue its visionary work to develop and promote hydrogen technologies in Turkey. HTD will persistently work to strengthen sector collaborations, build connections between academia and industry, and support Turkey's sustainable energy goals.

REPORTS:



Raporları
görüntülemek için
QR kodu
okutabilirsiniz.

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