I can make this bold state-ment as I saw the rapid development in technology in the last month. I also had the opportunity to attend three conferences on the subject of

hydrogen energy, the first one by Citybus and another one by the Energy Institute Hong Kong Branch.

But the most significant one was orga-nized by the Electrical and Mechanical Services Department in collaboration with China Hydrogen Alliance, which involved many visiting experts on technology, regulation and users.

The list included the mainland, the United Kingdom, Australia, Canada and many others. The total number of speakers exceeded 50, which is a very large number for such a conference.

The conference received a wide spec-trum of over 800 delegates in Hong Kong, including academia, public utilities, trans-port operators and regulatory authorities, among many other sectors, all gathering to learn of the latest technology and widespread application of hydrogen as an energy source, helping to fulfill the carbonneutral objective set by our Environmental

It is noteworthy that the conference attracted the finance sector's interests, which should make it even more likely to work successfully as we know such development must depend on financial invest

The key takeaway of the conference is that, with a huge volume of renewable energy source from Northwest China, there



will be an abundant supply of green energy to make hydrogen. Extensive development has enabled hydrogen to be used as fuel for power generation, transport and construc-tion activities. The only weak link at this time is an efficient method of transporting hydrogen over long distances.

It is an extremely pleasant finding that we have now surpassed Europe, America and North Asia as the most successful region for developing a hydrogen economy. Although other regions started testing hydrogen energy applications long before us, their progress was hampered by inadequate supply of hydrogen and lack of investments to make it suitable for everyday application.

Immediate application of hydrogen power includes power generation and

For power generation, gas turbines are already equipped to burn a fuel mixture of over 50 percent hydrogen when mixed with natural gas without damage to the blades. For transport, fuel cell technology has developed enough to allow commercial use of hydrogen to make electrical power, to be fed to drive motors and batteries for long-range travel.

For construction sites, again, hydrogen el cells can provide power on remote sites without electrical supply, making construction activities much more versatile



Clockwise from above: a large group of delegates at a hydr generator and a hydrogen-powered street cleaning vehicle onference, a hydrogen-filling kjosk, a hydrogen fuel cell pow







As to transporting hydrogen over long distances, the hurdles are gradually being

The present solution is to compress the hydrogen gas to high pressure - up to 350 bars – and storing them in steel tubes for transport by tube trailers. Hydrogen, being light, can be compressed without signifi-cantly increasing weight. Newer technology enables hydrogen to be compressed up to 700 bars, further reducing transportation

Hydrogen can also be liquefied or stored as ammonia, again making it easier for transportation.

With efficient transportation methods, the application of hydrogen as an energy carrier will become much more effective

As for the production of hydrogen, the existing method of using electrolysis can be supplemented with newer technology such as photocatalytic or electro-photocatalytic processes. Although at this time it remains a laboratory process, scientists and engineers are confident that the process can be applied in commercial scale very soon.

With all of these developments, we can see hydrogen energy application in Hong Kong arriving at our doorsteps. Our government authorities have already published the code of practice of hydrogen for safe operation and made it available to operators intending to use hydrogen as a fuel carrier. Properly used, hydrogen is at least as safe as LPG, which is already widely used as transport and domestic fuel in Hong Kong. Let us all embrace this new energy

source, as it will be our longer-term solu-tion to zero carbon fuel. It will make our living much cleaner more efficient and equally safe to other existing fuel.

eteran engineer Edmund Leung Kwong-ho casts an expert eye over features of modern life

HK Sevens bring trademark thrills to a brand-new, world-class venue

BERNARD CHARNWUT CHAN



The 2025 edition of the Cathay/HSBC Hong Kong Sevens delivered an unforgettable weekend of world class rugby and lively festivities, delighting passionate fans, many of whom traveled to Hong Kong for the

The tournament maintained its legendary reputation while beginning an exciting new chapter in its history at the state-of-the-art Kai Tak Sports Park.

This world-class venue seamlessly integrates cutting-edge facilities with the cherished traditions of the Hong Kong Sevens, preserving its iconic charm while enhancing the experience to new heights - a perfect fusion of familiarity and fresh innovation.

The competition brought together 30 elite teams from five continents, showcasing the fast-paced, high-

intensity format characterizing rugby sevens.

The atmosphere was electric, with passionate fans from around the world filling the stands and reaffirming the city's status as the spiritual home of rugby sevens and a key destination on the global rugby

In the men's Cup Final, Argentina triumphed over France in a thrilling contest, while New Zealand's women secured a dramatic victory against their fierce



rivals, Australia. Both finals showcased the intensity

and excitement that make rugby sevens a global

Hong Kong, China's rugby teams, significantly

mpacted the Melrose Claymores finals, dominating on

home soil. The men's team, as defending champions

achieved a commanding victory over the national

team. Meanwhile, the women impressed with their

exceptional performance, defeating Kazakhstan to secure their first Melrose Claymores title.

Off the pitch, an exceptional lineup of entertainment energized fans throughout the weekend. Friday began





GALA dazzled during the parade of local mini-rugby DJ Pete Tong transformed the evening into a lively nce party with his Ibiza anthems set

Sunday's entertainment peaked with the Kaiser Chiefs captivating the crowd with their iconic anthems. Earlier, Cathay Pacific added a nostalgic touch

with a flyover of Victoria Harbour to celebrate Kai Tak Airport's 100th anniversary.





The 2025 edition of the Hong Kong Rugby Sevens celebrated the tournament's rich legacy, blending world-class rugby with unforgettable entertainment.

Once again, the Hong Kong Sevens proved why they are one of the most iconic events on the global sporting calendar.

Bernard Charnwut Chan is chairman of Tai Kwun Culture & Arts Co Ltd