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STOR·H

by AAQIUS

The New Hydrogen Standard



“**China: the energy transition won't happen without innovation**”

states Stéphane Aver,
CEO of AAQIUS

“**Hydrogen is a political, economic and social opportunity for China to become the world's leading ZERO CARBON nation**”

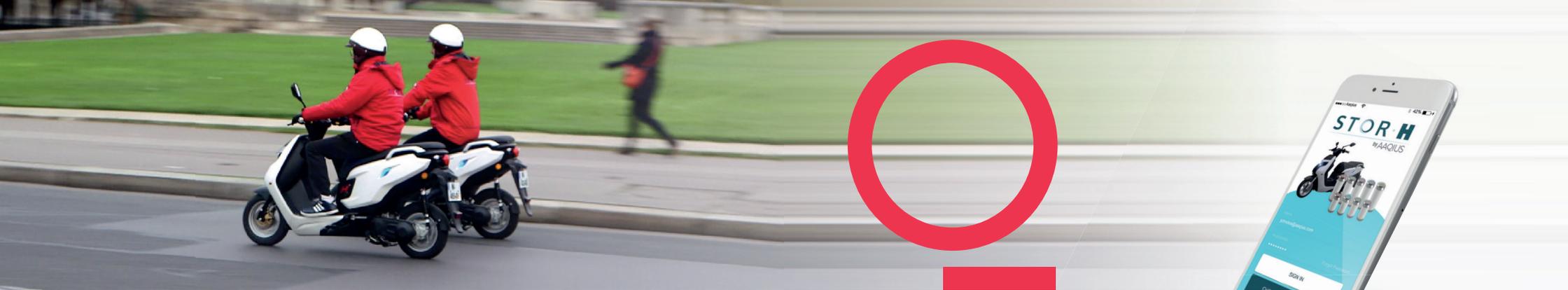
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What is AAQIUS' perspective on China's development policy?

China's extraordinary surge over these past decades has made it one of the top players in the global economy and, at the same time, the world's leading emitters of carbon dioxide emissions (CO₂). The authorities are fully aware of how urgent the situation has become and how important it is to put environmental protection at the top of the discussion agenda. The statements made by the Chinese delegate at the close of COP 22 were clear: "China wishes to continue to work with other countries in order to fight climate change." Within that context, how can we wed two variables that appear, at first glance, contradictory: growth and ecology? The challenge for China in the upcoming years will be to make the environment a new growth driver. It will be a matter of striking a new, particularly delicate but vital balance for the country's development. And in this regard, AAQIUS deems that an aggressive hydrogen economy development policy is one path towards striking that balance.

How do you imagine that aggressive strategy where the Chinese Government is concerned?

While China is the leading emitter of greenhouse gases on the planet, the United States is by far the leading emitter per inhabitant. China, in contrast, is the leading producer of solar power. Similarly, at the same time as China is the world's leading producer of coal, it also owns the largest wind power farms on the planet. As to individual mobility, whereas vehicles not in line with anti-pollution standards do plague the entire country, China could soon become the world's leading market for electrical vehicles, if it continues its current trend, even though the severe risks resulting from battery quality and life-cycle remain as unsolved as ever. To all of those ills, the country is now seeking a remedy. The Red Dragon is, in particular, buckling under the brown clouds suffocating its cities and poisoning its populations; however, a number of "remedies" are also emerging, as illustrated by STOR-H, which offers an immediate growth-driving response, drawing on a hydrogen production solution completely disconnected from fossil energy. "I like to call it the 'Blue Sky 2020' Strategy".



How does the Stor-H by AAQIUS standard constitute a concrete way of giving some air to Chinese cities, without holding up their growth?

With all Chinese cities in urgent need of solutions today, AAQIUS, a specialist in automotive pollution mitigation technologies with successes worldwide in this area, offers one of the keys to the issue of city asphyxiation in China, specifically using hydrogen. As AAQIUS CEO Stéphane Aver sees it, “Hydrogen as an industrial remedy has come of age. The Stor-H standard, which we developed, is a unique opportunity to break free from fossil power and the heavy infrastructure requirements it carries. When it comes down to it, hydrogen is the missing link in the chain and the cornerstone of all energy solutions that can become an alternative to coal, oil, natural gas and nuclear. The Stor-H standard offers a model that can be applied anywhere, making it possible for China to engage in consumer activity and develop mobility -- differently, without reining in their habits and, most importantly, without upsetting their new economic balance”.

Now more than ever, the innovative business model connected with AAQIUS' expertise in “green” breakthrough technologies for mobility with low CO2-related impact, has become the obvious response to the ecological challenges which Chinese cities and the ecological sector as a whole will have to face in the next few years.

How is Stor-H innovative when it comes to individual mobility?

The Stor-H technology, based in large part on electro-mobility, was developed as much for bicycles as for motorbikes, motorcycles, small cars, etc. The green cartridges containing very low-pressure hydrogen, inserted directly into the vehicle, provide several hundred kilometres' worth of autonomy and can be recharged in a single click, from the home, at a Stor-H stand or at high-capacity industrial sites. As soon as it is triggered, the hydrogen found inside the cartridge turns into electricity through a fuel cell, providing the power necessary for any type of mobility.

There will be no need to deploy a whole network of service-stations equipped with highly-costly and hazardous hydrogen pumps. The networks already set up by major distribution outlets and local shops will serve the function perfectly. Existing service stations will also be able to distribute cartridges, meaning that, for China, it will be easier to start from scratch, unlike most Western countries, where the extensive existing systems can be hindrance. “Actually, there is no resistance whatsoever to hydrogen in the country, and they have already become proficient in the technologies; the challenge now will be to develop the hydrogen sector and Stor-H ecosystem for massive use. This is a political, economic and social opportunity for it to concretely become the world's leading ZERO CARBON nation” concludes Stéphane Aver.

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19 rue de la Coulouvrenière
CH-1204 Genève

Tél: +41 (0)22 311 10 80
Fax: +41 (0)22 311 10 81

www.aaqius.com
contact@aaqius.com



FC Power Generator



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