BMW GROUP THE NEXT 100 YEARS

Corporate Communications

Media Information
10 September 2019

The BMW i Hydrogen NEXT at the IAA Cars 2019

+++ With the unveiling of the BMW i Hydrogen NEXT at the IAA Cars 2019 show, the BMW Group is demonstrating its ability to complement its electrified vehicle portfolio with the deployment of hydrogen-powered fuel cell technology. +++

Munich. As one of the pioneering figures in the field of electric mobility, the BMW Group is equipping itself for the myriad requirements of future mobility, as illustrated by the BMW i Hydrogen NEXT fuel cell development vehicle awaiting visitors at the IAA Cars 2019 show. The BMW Group is working on the assumption that, in future, various alternative types of drive system will exist alongside one another, as there is no single solution that covers the complete spectrum of customers' mobility needs worldwide. Hydrogen vehicles represent an important alternative and addition to battery-electric drive systems. This rich diversity of electrified drive technologies – of which plug-in hybrids are another example – underlines the BMW Group's commitment to achieving zero-emission mobility as part of a well thought-out strategy.

In 2022, the BMW Group is planning to present the next generation of hydrogen fuel cell electric drive systems in a small-series vehicle based on the current BMW X5. The BMW i Hydrogen NEXT provides an initial glimpse of what this model has in store. The BMW Group would start offering fuel cell vehicles for customers in 2025 at the earliest, but the timing very much depends on market requirements and overall conditions.

Design of the BMW i Hydrogen NEXT

The BMW i Hydrogen NEXT demonstrates that this technology can be integrated effectively into a dynamic vehicle like the BMW X5. Slight modifications to the vehicle's design make it deliberately recognisable as a BMW i model. BMW i espouses innovation and acts as an incubator for all new technologies at the BMW Group.
At the front end, the modifications are most clearly visible in the distinctive BMW i Blue patterning on the bonnet. This patterning reappears in three-dimensional form in the air intakes. The pattern's shape and colour form a dynamic flow across the front end and

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flanks of the Mineral White body. The detailing on the light-alloy wheels provides further confirmation of the model's BMW i genes.
The development vehicle's innovative nature shines through at the rear, too, thanks to the BMW i Blue diffuser elements. Their blanked off design without exhaust tailpipes clearly highlights that the car's drive system produces zero local emissions.

Major potential and with significant customer benefit

Hydrogen-powered fuel cell electric vehicles (FCEVs) are able to offer unrestricted zero-emission mobility with similar usage characteristics to conventional vehicles: Refuelling times of under four minutes, long range, no compromises in terms of comfort, suitability for towing and very little dependence on climatic conditions, which means customers enjoy a long operating range in summer and winter alike. To make all of this possible, a hydrogen infrastructure fit for the job in hand is needed. In most countries, such supply infrastructures are still in the early stages of development.

Development partnership with Toyota

The BMW Group has already given a demonstration of the technology's suitability for everyday use. The BMW Group and Toyota Motor Corporation joined forces in 2013 to co-develop a drive system using hydrogen fuel cell technology. Since the summer of 2015, the BMW Group's research wing has been testing a small fleet of prototype BMW 5 Series GT hydrogen fuel cell vehicles powered by a jointly developed drive system with a Toyota fuel cell stack.
In 2016, the two companies signed a product development partnership agreement. Since then they have been working together on future generations of fuel cell drive systems and on scalable, modular components for hydrogen fuel cell vehicles. The alliance with Toyota Motor Corporation shows how the BMW Group has intensified its efforts to develop alternative drive technologies for fully emission-free driving. The two partners have great faith in fuel cell technology and will continue to work together to develop it further as the infrastructure and mass market grow around the world.
In January 2017, the BMW Group and Toyota teamed up with eleven leading energy, transport and industrial companies to launch a global initiative known as the Hydrogen

Council. Its aim is to forge a united vision and push ahead with the long-term ambition of a hydrogen-fuelled energy revolution. As of June 2019, the Hydrogen Council has grown to 60 member companies.

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The BMW Group

With its four brands BMW, MINI, Rolls-Royce and BMW Motorrad, the BMW Group is the world's leading premium manufacturer of automobiles and motorcycles and also provides premium financial and mobility services. The BMW Group production network comprises 31 production and assembly facilities in 15 countries; the company has a global sales network in more than 140 countries.

In 2018, the BMW Group sold over 2,490,000 passenger vehicles and more than 165,000 motorcycles worldwide. The profit before tax in the financial year 2018 was € 9.815 billion on revenues amounting to € 97.480 billion. As of 31 December 2018, the BMW Group had a workforce of 134,682 employees.

The success of the BMW Group has always been based on long-term thinking and responsible action. The company has therefore established ecological and social sustainability throughout the value chain, comprehensive product responsibility and a clear commitment to conserving resources as an integral part of its strategy.

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