

### **Bosch hybrid system successful in the FIA World Endurance Championship**

July 06, 2023

PI11691 BEG MBC/Cd

- ▶ Bosch supplies system technology as well as electric motor, inverter, hybrid control unit and electric braking system for the new LMDh platform within the hypercar category
- ▶ LMDh platform supports a new era of long-distance racing in WEC and IMSA

Abstatt, Monza – The WEC racing series starts the second half of the season with the 6 Hours of Monza. On the historic race track near Milan, the two factory teams from Porsche and Cadillac will be competing with the new LMDh system within the hypercar category. Bosch is the official systems engineering lead for the hybrid system. Additionally, Bosch is the exclusive supplier for the electric motor (MGU), the inverter (MCU) and the hybrid control unit (HCU) as well as the electric braking system (EBS) that is also capable of recuperation. The hybrid system is flexible and can be combined with different vehicle and engine concepts, while still offering a high level of performance. In drive mode, it delivers a permanent output of 50 kW, and up to 200 kW in recuperation mode. The LMDh system features high-cost efficiency thanks to standardized parts, enabling vehicle manufacturers and teams to compete under attractive conditions at endurance classics such as Le Mans, Daytona, Sebring or Monza.

“In this first half of the year, it was important to be able to experience the system under real racing conditions. The last four WEC races enabled us to collect a lot of valuable data and experience. The season highlight in Le Mans and the 24-hour continuous use of the components is now behind us and this without any abnormalities or technical problems, which we are very satisfied with. But also the constant close exchange with the teams helps to continuously optimize the system and to be a strong partner before and during the races”, says Ingo Mauel, Head of Bosch Motorsport.

The electric braking system (EBS) from Bosch Motorsport also withstood the high stresses of the previous endurance races. It uses brake-by-wire technology, in which the electronics take care of transmitting the braking signal. When the

driver presses the brake pedal, the electronic control unit is activated, the electric motor reverses, and the vehicle's kinetic energy is converted into electrical energy and fed back into the battery. When hybrid technology is fully optimized, braking energy is recovered that would otherwise be lost to heat, so the driver can race dynamically with less fuel.

“We now want to make full use of the second half of the season to analyze data together with the technology partners, teams and the racing series and to further improve the system”, says Mauel.

**Further information:**

<https://www.bosch-motorsport.com/>

<https://www.youtube.com/watch?v=bl3Cw6T8q-o&list=PL192VO-BZ56KWsDcCw2Intr5F-x50B2FV>

[https://www.youtube.com/watch?v=Ud\\_5ZmnVKAA](https://www.youtube.com/watch?v=Ud_5ZmnVKAA)

**Press photos:** #a6b03cb1, #8f4c9416, #727af1e9

**Contact person for press inquiries:**

Cornelia Dürr

phone: +49 7062 911 1986

email: [Cornelia.Duerr@de.bosch.com](mailto:Cornelia.Duerr@de.bosch.com)

*Bosch Engineering GmbH is a wholly owned subsidiary of Robert Bosch GmbH and is headquartered in Abstatt, Germany. As a systems development partner to the automotive industry since 1999, the company with its more than 3,300 associates offers development services for powertrains, safety and convenience systems, and electrical and electronic systems – from the original concept to series production. Specialized in electronics and software, it draws on Bosch's proven large-scale series production technology to develop tailored solutions for a wide variety of applications in passenger cars, commercial vehicles, off-highway and recreational vehicles, and in rail applications, ships, and industry. Bosch Engineering GmbH also coordinates all the Bosch Group's motorsports activities. Additional information can be accessed at [www.bosch-engineering.com](http://www.bosch-engineering.com).*

*Mobility is the largest Bosch Group business sector. It generated sales of 52.6 billion euros in 2022, and thus contributed almost 60 percent of total sales. This makes the Bosch Group one of the leading automotive suppliers. The Mobility business sector pursues a vision of mobility that is safe, sustainable, and exciting, and combines the group's expertise in the domains of personalization, automation, electrification, and connectivity. For its customers, the outcome*

*is integrated mobility solutions. The business sector's main areas of activity are injection technology and powertrain peripherals for internal-combustion engines, diverse solutions for powertrain electrification, vehicle safety systems, driver-assistance and automated functions, technology for user-friendly infotainment as well as vehicle-to-vehicle and vehicle-to-infrastructure communication, repair-shop concepts, and technology and services for the automotive aftermarket. Bosch is synonymous with important automotive innovations, such as electronic engine management, the ESP anti-skid system, and common-rail diesel technology.*

*The Bosch Group is a leading global supplier of technology and services. It employs roughly 421,000 associates worldwide (as of December 31, 2022). The company generated sales of 88.2 billion euros in 2022. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 470 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 136 locations across the globe, Bosch employs some 85,500 associates in research and development, of which nearly 44,000 are software engineers.*

*Additional information is available online at [www.bosch.com](http://www.bosch.com), [www.iot.bosch.com](http://www.iot.bosch.com), [www.bosch-press.com](http://www.bosch-press.com), [www.twitter.com/BoschPress](https://twitter.com/BoschPress)*