



Kawasaki Motors, Ltd.
Suzuki Motor Corporation
Honda Motor Co., Ltd.
Yamaha Motor Co., Ltd.
Toyota Motor Corporation
Dakar 2024 to Dakar 2025
Accelerating Development of Core Technology
Toward Early Adoption of Hydrogen

The HySE (Hydrogen Small mobility & Engine) will be showcased at our hydrogen rally (Dakar 2024).

*1) set to be held in Saudi Arabia from January 5 to 19, 2024.

Mission 1000 is a new part of the Dakar Future Program, an effort aimed at urging automakers to develop next-generation carbon-neutral powertrain technologies like hydrogen engines and electric or biofuel hybrids. HySE's entry in Mission 1000 will be the hydrogen engine-equipped HySE-X1. It will be driven in some of the harshest environmental conditions in what is considered the world's toughest motorsport, providing an excellent opportunity to study how the hydrogen engine will perform in such conditions. This will allow us to easily identify potential issues with small mobility*2

company Overdrive Racing (Belgium)^{*3} with a modified layout to accommodate a hydrogen fuel tank and fuel supply system. Powering it is the hydrogen-powered-engine for motorcycles that HySE is currently using in our research activities. Hydrogen refueling and maintenance will be performed by Overdrive Racing.

HySE also plans to exhibit a mockup of the HySE-X1 at the Motorsports Program booth at the Japan Mobility Show 2023^{*4} that will be held at Tokyo Big Sight (Ariake, Koto City, Tokyo).

As an association aiming to achieve a carbon-neutral society, HySE has been researching small hydrogen engines and we plan to continue doing so alongside our partner companies, working together to carry out research toward implementing and popularizing small hydrogen engines.

Kenji Komatsu, Chairman of HySE and Executive Officer of Technical Research & Development Center, Yamaha Motor Co. Ltd., comments, "We have decided to participate in the Dakar Rally, which we know has a rich history and tradition. Our main reason for participating is to give us

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Chairman: Kenji Komatsu (Executive Officer, Yamaha Motor Co., Ltd.)

1. The Dakar Rally is a rally raid event that has been held every year since 1978, covering terrain ranging from deserts to mud to mountains.

- Mission 1000 Challenge: <https://www.dakar.com/en/dakar-world/therace/dakar-future/mission-1000>
- Dakar Future program: