

## Toyota rolls out fuel cell buses in Japan

Toyota Motor Corporation will begin to sell fuel cell buses under the Toyota brand from early 2017. Having already undergone repeated field tests for practical use, the Bureau of Transportation of the Tokyo Metropolitan Government plans to utilise two of these FC buses, branded the Toyota FC Bus, as fixed-route buses.



The company plans to introduce over 100 FC buses mainly in the Tokyo area, ahead of the Tokyo 2020 Olympic and Paralympic Games. In view of this, the FC buses will be sold for the first time in Japan in early 2017, so as to help increase the level of understanding by the general public of the utilisation of FC buses as a form of public transportation.

Moreover, in preparation for the Tokyo 2020 Olympic and Paralympic Games, the number of FC buses being introduced will increase steadily going forward. Together with this, the automaker says it aims to "engage continuously in the diligent development targeted at the expansion of the introduction of the new FC buses from 2018 so as to contribute to the realisation of a hydrogen-based society".

### Energy efficiency and power supply

The Toyota FC Bus was developed by Toyota, based on the company's experience in developing FC buses together with Hino Motors, Ltd. (Hino). The Toyota Fuel Cell System (TFCS), which was developed for the Mirai fuel cell vehicle (FCV), has been adopted to provide better energy efficiency in comparison with internal combustion engines, as well as to deliver superior environmental performance with no CO<sub>2</sub> emissions or substances of concern (SOCs) when driving.

The bus also uses a high-capacity external power supply system. With a power supply capable of a 9 kW maximum output and a large capacity of electricity supply at 235 kWh, the FC bus can be used as a power source in the event of disasters such as at evacuation sites or at school gymnasiums. Its electricity supply can also be harnessed for home electric appliance use.

The Toyota Group considers the use of hydrogen to be a powerful source of energy for the future. Toyota has released the Mirai FCV, while also engaging in the technological and product development of FC buses, fuel cell forklifts, as well as stationary fuel cells for use in homes.