

November 17, 2025

Mazda Begins Demonstration Experiment of Onboard CO₂ Capture System

- First Demonstration Experiment Marks Success At Super Taikyu Series 2025 Round 7 -

HIROSHIMA, Japan - Mazda Motor Corporation today announced that it has begun demonstration experiments of Mazda Mobile Carbon Capture, Mazda's unique CO₂ capture system, in support of the theme, "The Joy of Driving Fuels a Sustainable Tomorrow," announced at the JAPAN MOBILITY SHOW 2025.



Demonstration Experiment



CO₂ capture device installed
on the demonstration vehicle
(Taken from the rear lower section of the vehicle)

Mazda aims to realize mobility where "driving more leads to CO₂ reduction" by 2035. Mazda believes that if its vehicles run on carbon-neutral fuel and capture the CO₂ emitted, it will be possible to reduce the amount of CO₂ in the atmosphere in proportion to the distance traveled.

In the Super Taikyu Series Round 7* held on November 15 and 16, the 'Mazda Mobile Carbon Capture' was installed in the "MAZDA SPIRIT RACING 3 Future Concept (Car No.55)," a race vehicle, for the first time. The vehicle ran on biodiesel fuel (HVO), a carbon-neutral fuel that has been put to practical use in Europe. The device uses zeolite with a porous structure as a CO₂ adsorbent and demonstrated that it can adsorb CO₂ in exhaust gas.

Mazda will continue demonstration experiments in the Super Taikyu Series next season to increase CO₂ recovery rates. Building on insights gained, Mazda will advance its technology and equipment, contributing to the realization of a sustainable mobility society.

■ Related information: Mazda's corporate website

<MAZDA MIRAI BASE>

- JAPAN MOBILITY SHOW 2025 "The Joy of Driving Fuels a Sustainable Tomorrow," Mazda's Vision for the Future of Mobility in 2035"

<https://www.mazda.com/ja/mazda-mirai-base/articles/20251029-jms2025-concept/>

- JMS 2025 "Does driving more make the planet cleaner? MAZDA VISION X-COUPE envisions the driving pleasure of the future"

<https://www.mazda.com/ja/mazda-mirai-base/articles/20251029-jms2025-mazda-vision-xcoupe/>

<MAZDA SPIRIT RACING>

- Super Taikyu Series: One of the most popular endurance racing series in Japan, featuring a wide range of car models:

<https://www.mazda.com/ja/experience/mspr/motorsports/supertaikyu/>

###

* ENEOS Super Taikyu Series 2025 Empowered by BRIDGESTONE Round 7 Super Taikyu Final Grand Thanksgiving Party