

Driving Toward Decarbonization

Sustainable Practices in EXPWY Operations

Engagement en faveur
de la décarbonisation

Pratiques durables dans l' exploitation autoroutière



Sustainable Renewal

Kire-Uriwari Bridge Replacement project

Hanshin Expressway is implementing a renewal project to ensure the safety, comfort, and long service life of its structures. Due to aging, some sections require major rehabilitation to prevent severe damage. The project involves replacing and upgrading entire bridge structures to meet modern standards and improve durability and performance.

The Kire-Uriwari Bridge Replacement Project was carried out because the central hinge section of the aging PC box girder bridge had subsided, making reinforcement impossible. The new bridge is a steel structure designed for a 100-year service life, incorporating high-performance steel decks and permanent scaffolding to significantly improve maintainability and durability. This project also introduced a world-first removal method.



Sustainable Road Construction

Low-Carbon Concrete

In the Kire-Uriwari project, we have promoted decarbonization by replacing high-CO₂ cement with low-carbon materials such as calcium carbonate that absorbs CO₂ and supplementary admixtures. This approach has achieved a negative CO₂ balance for materials and realized carbon-negative construction through cast-in-place work on the central median.

