

BALLARD™



We deliver fuel cell power
for sustainable transit

Decarbonizing rolling stocks

Hydrogen-powered trains are offering an alternative to diesel power.

“The hydrogen fuel cell train is best suited for longer, relatively low-frequency routes, with short downtimes and limited time for battery charging, and routes not already electrified.”

Hydrogen Council, 2020





Cost-effective route
electrification



Long range and route
flexibility



Short refueling time

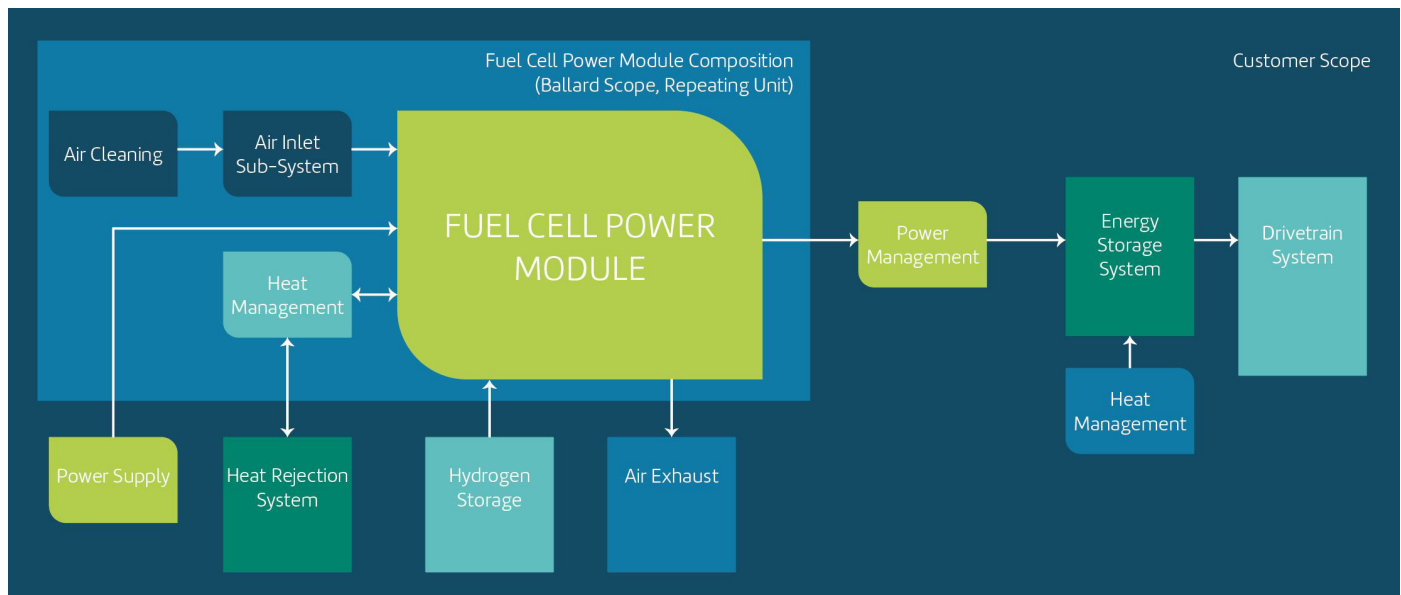


Zero-emission solution

No compromise zero-emission mobility

Hydrogen-powered trains use a hybrid configuration of fuel cells and batteries. Using hydrogen as the fuel source, which in turn charges the batteries and provides a stable power source for the traction motors.

The train's braking system also provides recharge energy for the batteries (regenerative braking), which stores excess energy for later use, while further contributing to the fuel efficiency.





H2 storage

Cooling

Fuel cell

H2 storage

Mireo Plus H

H₂

bwegt

bwegt

DB

563 101-9

Proven

Fuel cell technology works safely, reliably and durably in regional commuter rail, proven with the Foshan Gaoming hydrogen tram since 2019 and the Siemens Mireo Plus H trains or freight locomotives with CPKC.

Performance

Products developed according to industry standards to deliver long-term performance and low life cycle cost.

Promise

Customer Care with end-to-end support from engineering, testing, after sales to services & training.



On the road to sustainable zero-emission

At Ballard we are striving towards sustainability across the entire life cycle of our products, and every year we recycle and refurbish thousands of fuel cells stacks.

When it comes to product lifecycle management, Ballard is at the leading edge of innovation in applying the three “Rs” to its fuel cell stacks. Our expertise in refurbishing, reusing and reclaiming fuel cell components means our solution is both zero-emission and zero waste.

www.ballard.com/about-ballard/our-sustainability

With more than 45 years of experience designing and implementing PEM fuel cell technology for vehicles, we are confident that the fuel cell technology is the right choice for your zero-emission fleet.



We deliver fuel cell power
for a sustainable planet

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PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING



Here for life™

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