

BALLARD[®]

Power to Change
the World[®]

Backup
Power

Electrolyzer

H₂ Storage

H₂ Station



Ballard in numbers



Global
company

Celebrating

40 years

1979-2019



Publicly

Listed
Company



**Vertically
integrated**

value chain



5 million

MEA products
produced

Produced

>1,200

heavy duty power
modules



560MW

of fuel cell
products shipped



>30,000hrs

in real life
bus operation



>20 million

kilometers of
vehicle experience

700

People



1,500

Patents &
Applications

Ballard Power Systems is a world leader in the design, development and manufacture of proton exchange membrane (PEM) fuel cell products. Ballard's proprietary technology, combined with our extensive stack and system integration capabilities, enables development of complete systems across a wide range of market applications.

Ballard's strategy is based on two growth platforms



Power Products

Meeting the power needs of our customers by delivering high value, high quality, zero emission fuel cell products that deliver lasting performance.



Technology Solutions

Enabling our customers to solve their technical and business challenges by delivering customized, high value, bundled fuel cell technology solutions.



Fuel cell products offer economically viable, financially attractive, and socially beneficial solutions. Hydrogen delivers a sustainable solution to enable the energy transition and improve urban air quality.

” Ballard collaborates with industry partners to develop clean energy solutions and drive down the total cost of ownership of hydrogen fuel cell products. ”

> 450
buses
deployed



TRANSIT BUS

Fuel cells improve the performance of electric buses with extended range, quick refilling and compact & scalable refueling infrastructure.

>2,000
trucks on
the road



TRUCK

Fuel cell electric trucks deliver zero emission vehicles to fleet operators with no compromise on range, payload and asset utilization compared to batteries.

4 train
projects on
track



RAIL

Hydrail enables GHG emission reduction without significant investment in complex electrification infrastructure.

5 ships
in develop-
ment



MARINE

Scalable and distributed power solution for auxiliary or propulsion loads for zero emission ships using high energy density hydrogen fuel.

>12,000
forklifts in
warehouses



MATERIAL HANDLING

Fuel cells improve the productivity of forklifts with longer run time and faster refilling.

multi-mil-
lion \$ stack
development
program



AUTOMOBILE

Fuel cells deliver extended range and more on-road time for high utilization vehicles.

multiple
test
platforms



UAV

Fuel cell power solutions extend the duration and reliability of commercial UAVs to reduce the cost of inspection, measurement and delivery missions.

> 2,000
systems
deployed



CRITICAL INFRASTRUCTURE

Fuel cells guarantee critical infrastructure site availability with reliable, modular and low maintenance power backup solutions.

Vertically integrated value chain

from component design to complete fuel cell system integration and services

MEAs and bi-polar plates	  <ul style="list-style-type: none"> » MEA designed to specific applications » High performance carbon bi-polar plates 			
Fuel Cell Stacks	<p>4 kW to 26 kW</p> <p>Liquid cooled stacks</p>  <p>FCvelocity-9SSL</p>	<p>400 W to 3 kW</p> <p>Air cooled stacks</p>  <p>FCgen-1020ACS</p>	<p>4 kW to 50 kW</p> <p>Liquid cooled stacks</p>  <p>FCgen-LCS</p>	
Fuel Cell Modules	<p>30 kW</p>  <p>FCveloCity-MD</p>	<p>85 kW & 100 kW</p>  <p>FCveloCity-HD</p>	<p>100 kW, 200 kW</p>  <p>FCveloCity-XD</p>	<p>70 kW</p>  <p>FCmove™</p>
Fuel Cell Systems	<p>2 kW to 50 kW</p> <ul style="list-style-type: none"> » Modular solution » Indoor (rack-mountable) & outdoor use  <p>FCgen-H2PM</p>		<p>600 W to 1200 W</p>  <p>FCair™</p>	
Customer services	 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; background-color: #4CAF50; color: white;">Training</div> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; background-color: #4CAF50; color: white;">Commissioning</div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; background-color: #4CAF50; color: white;">Engineering services</div> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; background-color: #4CAF50; color: white;">Application engineering</div> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; background-color: #4CAF50; color: white;">After-sales service packages</div> </div>			



We deliver fuel cell power for a sustainable planet

CONNECT WITH
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