



PowerCell Group

Arena H2Cluster - Annual meeting 30/01/2024





PowerCell Group

# Headquarters in Sweden.

Leading fuel cell technology built on 25 years of R&D & IP

Spin-out from the Volvo Group in 2009

Listed on NASDAQ since 2014

Driving business with strategic partners

Development & production according to industry standards

Global presence



A photograph of two workers in a factory setting. They are standing on either side of a large industrial machine mounted on a cart with wheels. The machine is complex, with various pipes, valves, and components. The workers are wearing grey shirts and dark pants. The background shows a typical industrial environment with metal structures and equipment.

Industrialized Product Portfolio

Megawatt Production Capacity


Leading R&D and Testing Capabilities






# Marine

 Passenger Vessels

 Fast Ferries

 Cargo Vessels


 Large Yachts



# Power Generation

 Prime Power

 Back-up Power

 Peak Shaving

 Shore Power

# Off-Road

 Material Handling

 Mining Equipment

 Agricultural Machinery

 Heavy Equipment

# Aviation

 Passenger planes

 Drones

 eVTOL



# Marine



Yacht  
**3.2 MW**  
Liquid Hydrogen



Towboat  
**1.8 MW**  
Reformed Methanol



Ferries  
**2x6.4 MW**  
Compressed Hydrogen





# Power generation



Hitachi  
100 kW



Everywhere  
20-300 kW



Volvo  
5 kW





# Offroad



Refuse Truck  
100 kW



Articulated Hauler  
100 kW



Forklift  
60 kW



Tractor  
100 kW





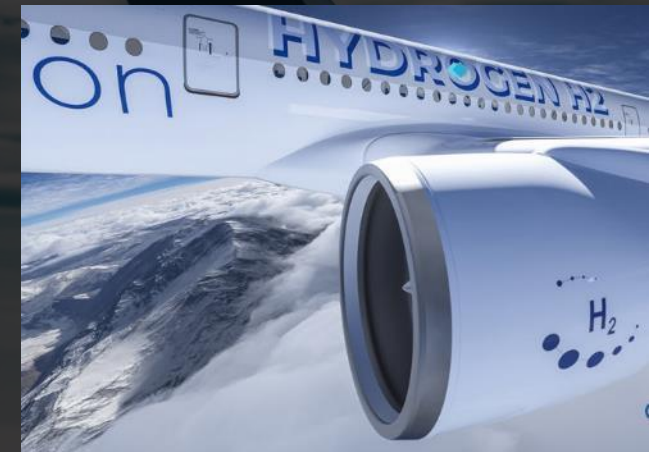
# Aviation



H2Fly  
200 kW



ZeroAvia  
400 kW



Newborn  
1.2 MW





# NEWBORN

Powercell's role: Fuel cell stack development and delivery

## Targets

- Development of 300 kW fuel cell blocks
- Ability to combine 2-4 stackblocks

Fuel cell stack efficiency	~49-60%
Fuel cell stack operating temperature	105 °C
Fuel cell technology	PEM
Fuel cell power per stack	Modular in range of 300 kW – 1,2 MW
Stack power density	>5 kW/kg



Grant Agreement No. 101101967





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# Thank you for the attention

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