PowerCell Group

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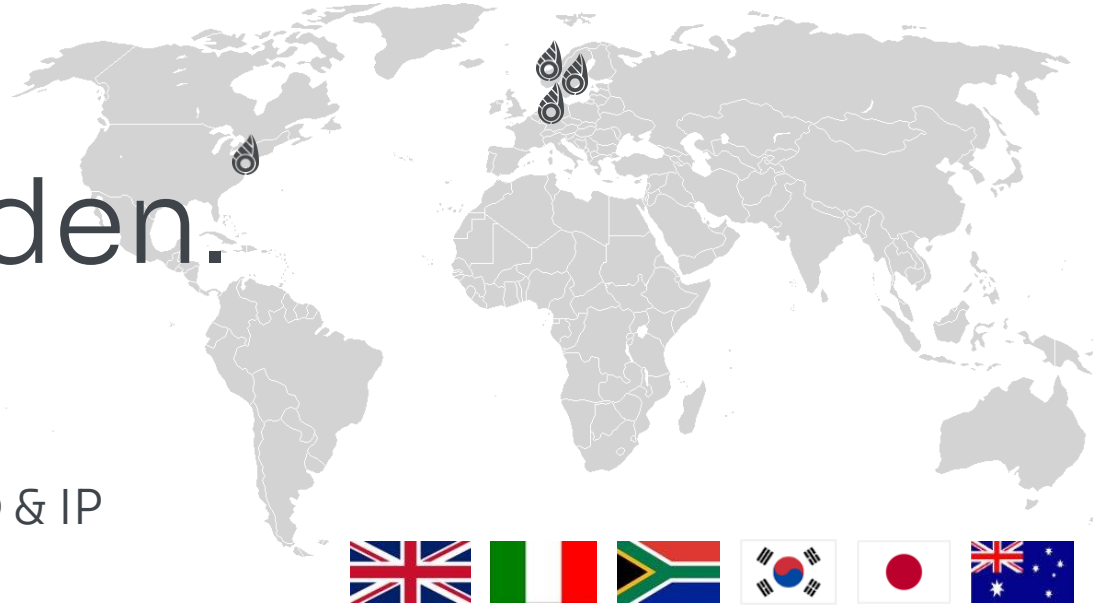


Headquarters in Sweden. Global presence.

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

DNV Lloyd's Register ISO 14001 ISO 9001 AS9100 CERTIFIED

Core


Industrialised product portfolio


Leading R&D and testing capabilities


MW production capacity

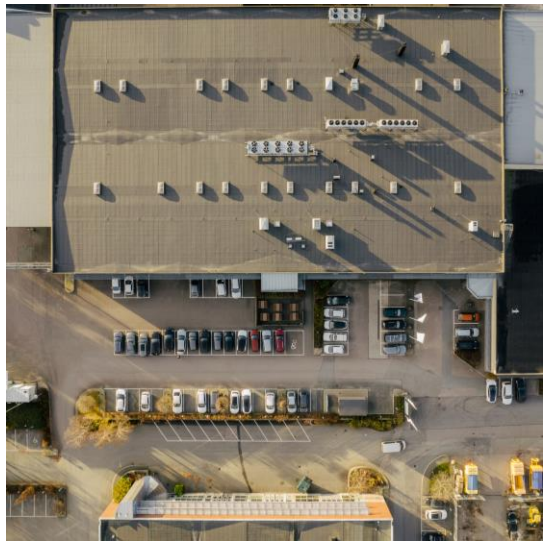
Services

Consultation

Feasibility studies that guide you to make the right choice

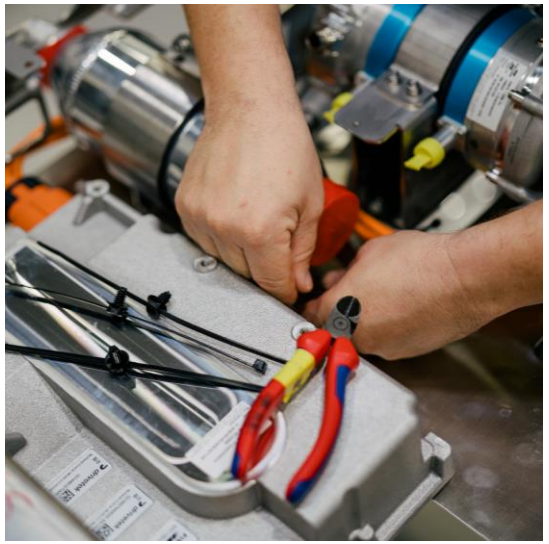
Industrialised Innovation

New market-leading products developed from our industrialised portfolio



Support

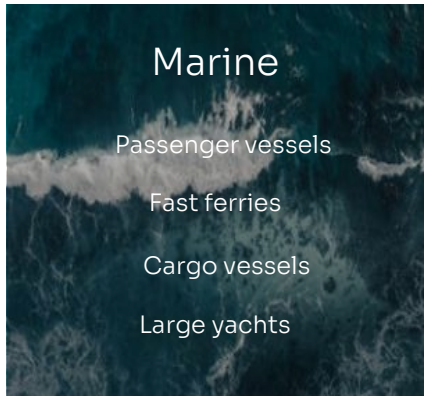
Integrations, installations and operations, online and on-site

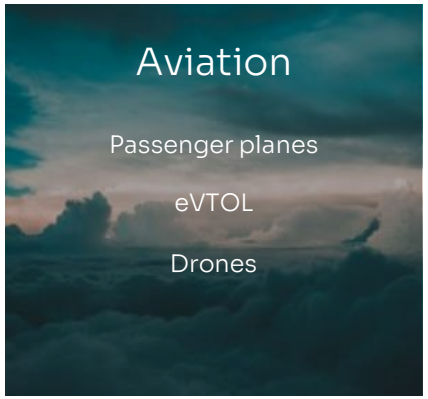


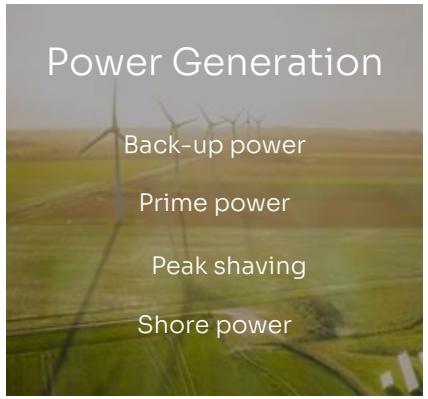
Modification

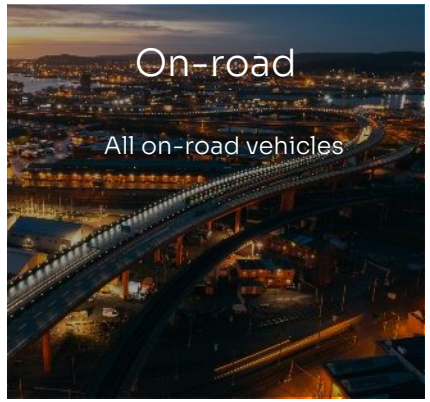
Customised application-ready products based on our industrialised portfolio

Segments & Drivers









Transition drivers

- IMO GHG reduction strategy
- Fuel EU Maritime regulations
- Local emissions free zones
- Quick refueling
- Insufficient grid for connecting ships to grid when at shore

- IATA Net Zero resolution
- Cheaper than SAF for small & regional planes
- Superior energy density and quicker refuelling compared to batteries

- Local air emission regulations (e.g. emissions free zones)
- Science Based Targets
- Off-grid applications
- Insufficient grid
- Long duration energy storage

- Science based targets
- Local air emission regulations (e.g. emissions free construction sites)
- Electrification at off-grid sites
- Fuel efficiency

Served through license agreement with Robert Bosch GmbH

- Science Based Targets
- Range
- Refueling times
- Weight and volume restrictions

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Proven track-record of customer installations and blue-chip partnerships

ZeroAvia a pioneer in the Aviation segment

Torghatten (SEAM) two Norwegian ferries

Hitachi HyFlex – enabling emissions free construction sites

H2Fly develops zero-emission commercial flight

Feadship project 821, world's first hydrogen fuel-cell superyacht

PowerCell's Power Generation 5 – the Ocean Race Edition

Partnerships

BOSCH

Automotive license agreement

Stack manufacturing agreement

Hitachi Energy

Fuel Cell Power Generator Partnership

Global sales reach

Other engagements

NOW NOW-GMBH.DE

German ASI project – Mass-produced fuel cell stacks for automotive

NEWBORN

EU's Newborn project – Aviation-grade megawatt fuel cells

CLEAN AVIATION

EU initiative to develop disruptive new aircraft technologies to support the European Green Deal, and climate neutrality by 2050.

H_2MARINE

European development project for fuel cells in harsh marine installations

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Products

Fuel Cell Stacks

S2 Stack

3-35 kW

S3 Stack

75-150 kW

HDS300 Stack

300 kW

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Products

Fuel Cell Systems

P System 100

Power Generation System 200

Marine System 225

M2Power 250

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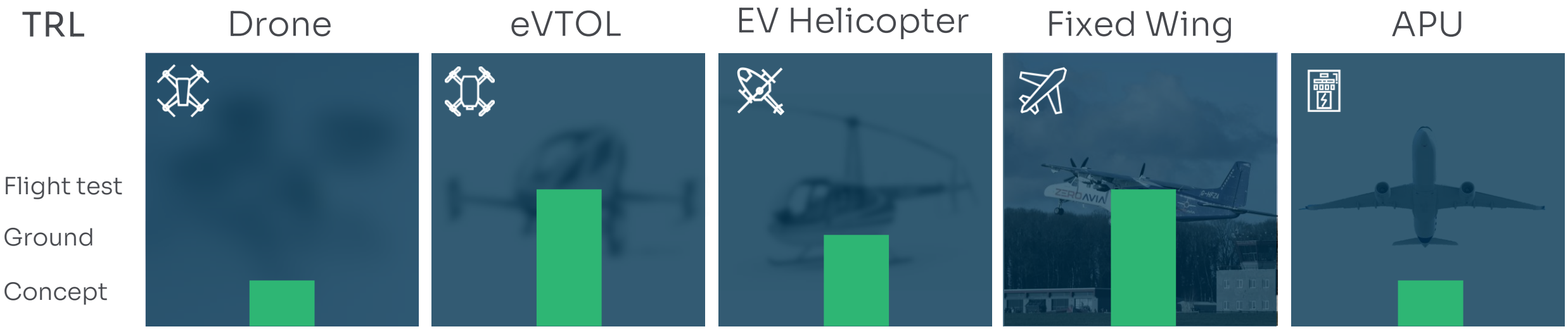
Together
we fly
Enabling Zero-Emission Aviation
PowerCell Group | Hydrogen electric solutions

Aviation Applications



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Aviation

H2Fly

ZeroAvia

AMSL Aero

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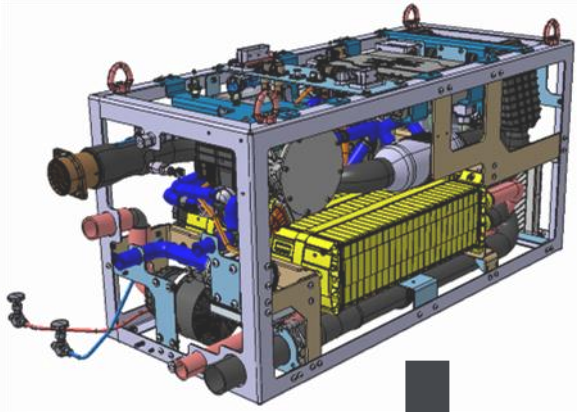
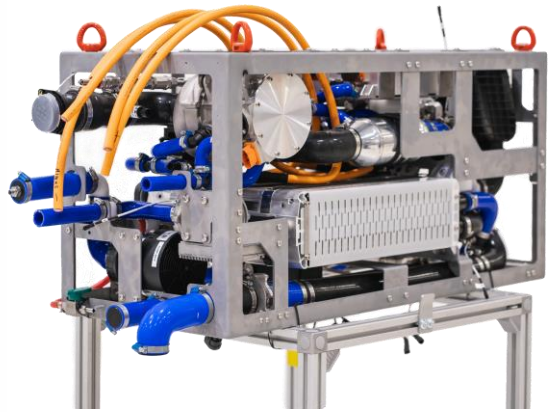
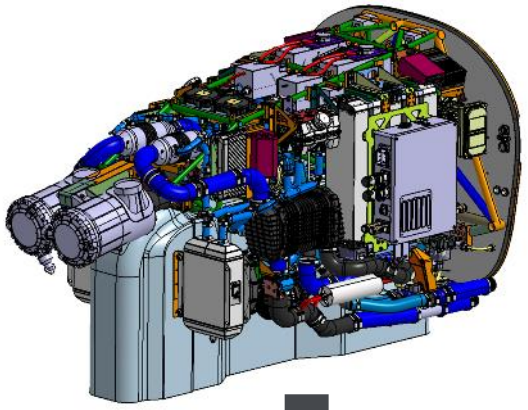
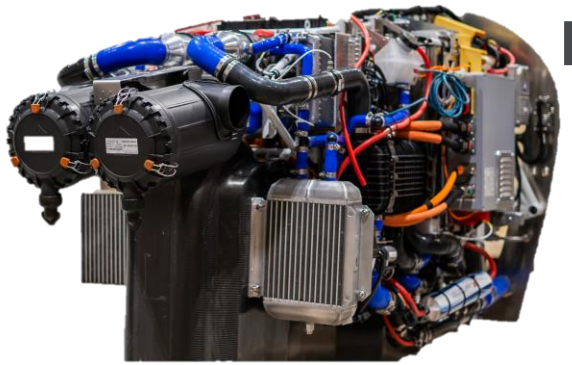
Customised Systems









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Aviation driving development

Get it to work
50°C

Reliability & durability
60°C

Power density & cost
75°C

Power density,
reliability & durability
85°C

Power density,
reliability & durability
105-120°C

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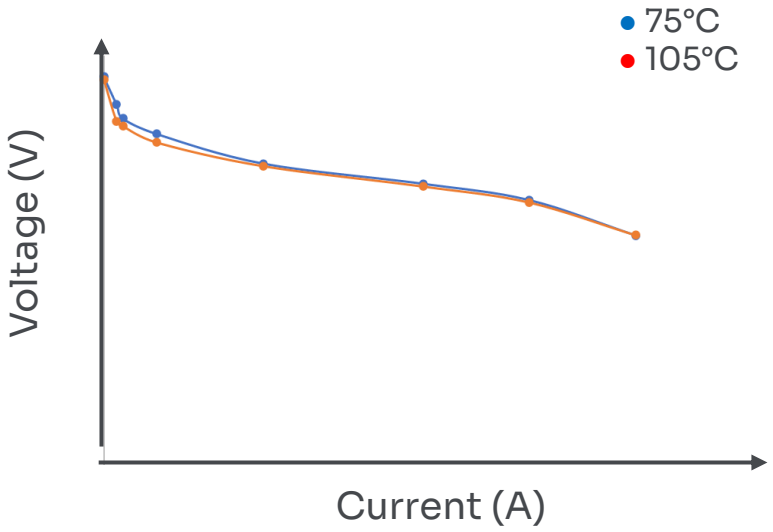
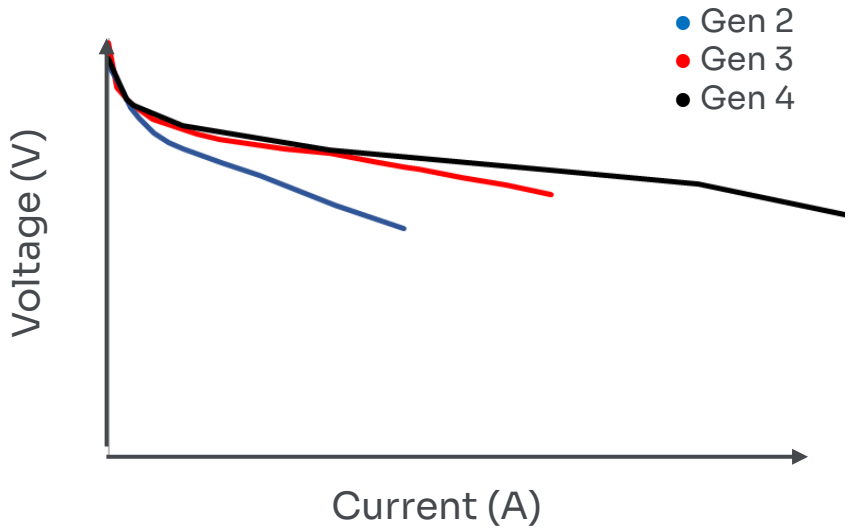
Performance Indicators

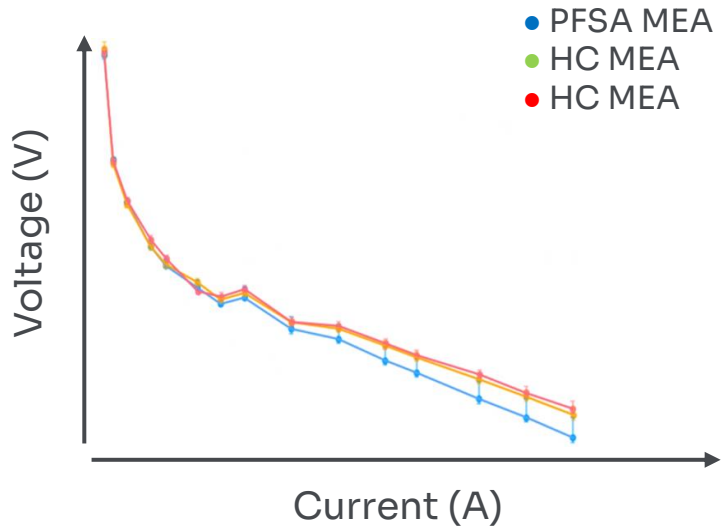
Improved temperatures



Improved performance



Non PFSA membrane



PowerCell Group

NEWBORN

Next-generation fuel cell stack development

44.8 million €

Funded by the European Union and supported by the Clean Aviation Joint Undertaking and its members.

13 experienced partners

The partners have a solid experience in Aircraft architecture and integration, fuel cell systems and high power electronics.

Project length: 3.5 years

From concept through design, development and validation to working demonstrator.

Co-funded by the European Union

PowerCell Group

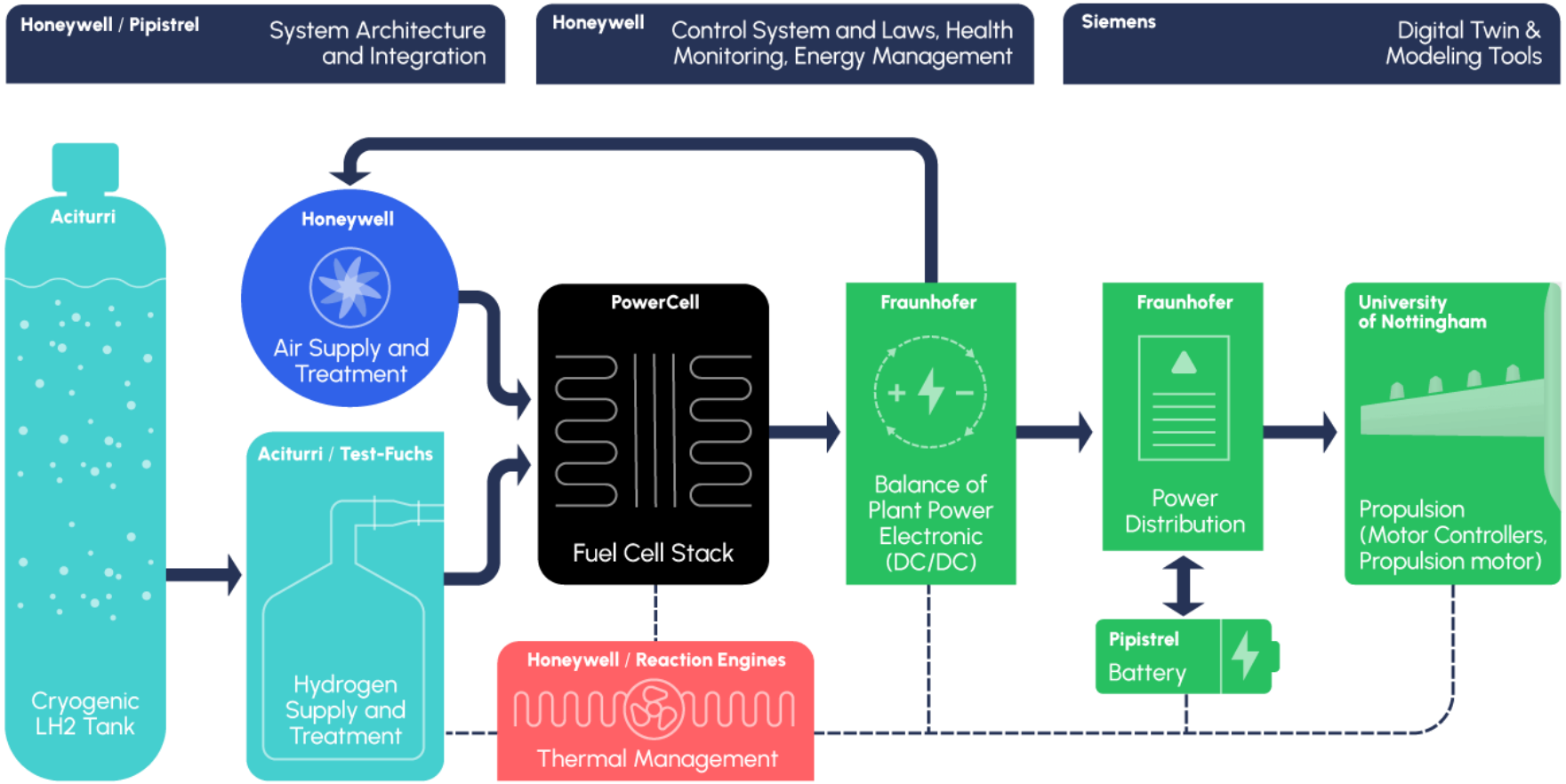
NEWBORN

CLEAN AVIATION

Co-funded by the European Union

Goals

- 1-8 MW scalable fuel cell power module
- TRL 4 technology ground demonstrator in 2026
- 1MW modules are directly usable for CS-23 aircraft
- Target Aircraft category CS-25 (HERA architecture)
- Zero CO_2 aviation by fuel cell powered Aircraft



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NEWBORN

Fuel cell stack development and delivery

Targets

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

Efficiency	~49-60%
Operating temperature	105 °C
Fuel cell technology	PEM
Power / Stack	Modular (range: 300 kW – 1 MW)
Power density	>5 kW/kg

NEWBORN

CLEAN AVIATION

Co-funded by the European Union

Grant Agreement No. 101101967

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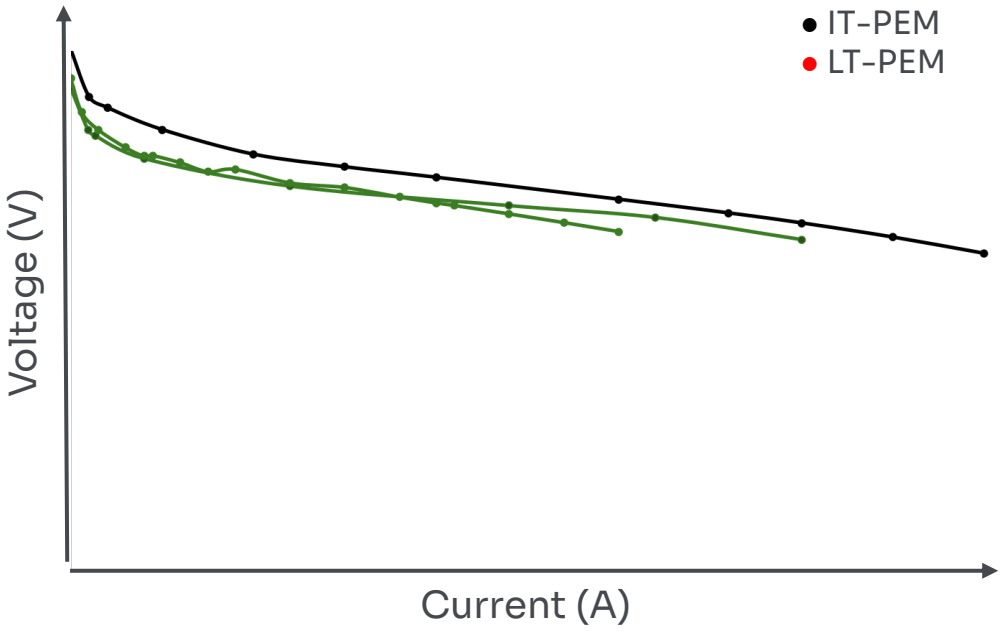
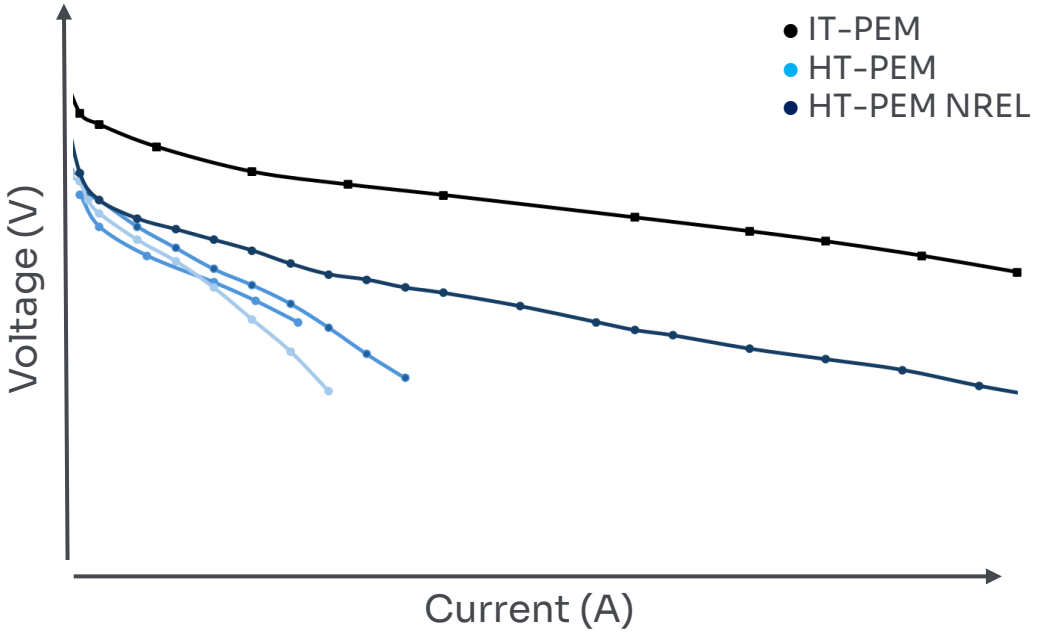
PEM technologies





“Do not let perfection (HT-PEM) be the enemy of the good (IT-PEM)”

PowerCell Group

Summary

PowerCell is ready today to support the transition with:

- Industrial products that **already flying**
- **AS9100 certified** and Manufacturing Capabilities
- Preparing for next phase hydrogen aviation with industrial products **HDS300 (IT-PEM)**
- We **minimising** your **technical risk**, **time to market** and **investment**

Together we fly!

PowerCell Group

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