



EH GROUP ENGINEERING

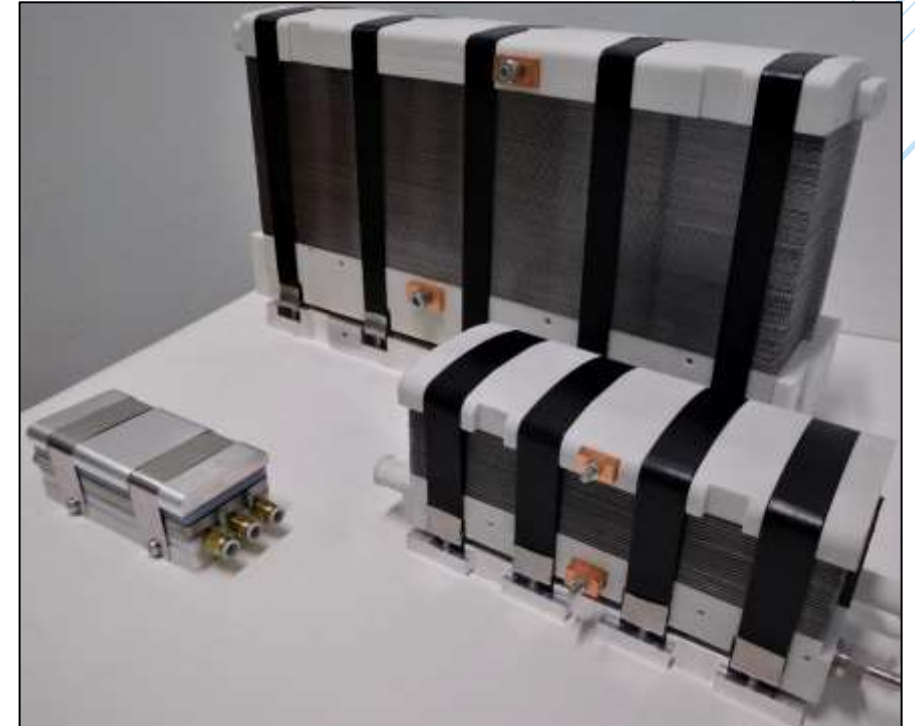


www.ehgroup.ch



EH Group Fuel Cell Technology

- Uniquely simplified and re-designed fuel cell stack at the microstructure level - more **compact, lightweight and efficient**.
- Completely new concept of FC production with
 - Continuous production process
 - Unique machinery with fully integrated assembly
 - **Significantly faster & cheaper at scale***: **< 100EUR/kW**
- Operates with **minimal effects of gravity** & in any orientation - great candidate for mobile applications;
→ Collaboration with



* At scale refers to 100,000+ units per annum



Our Technology Edge

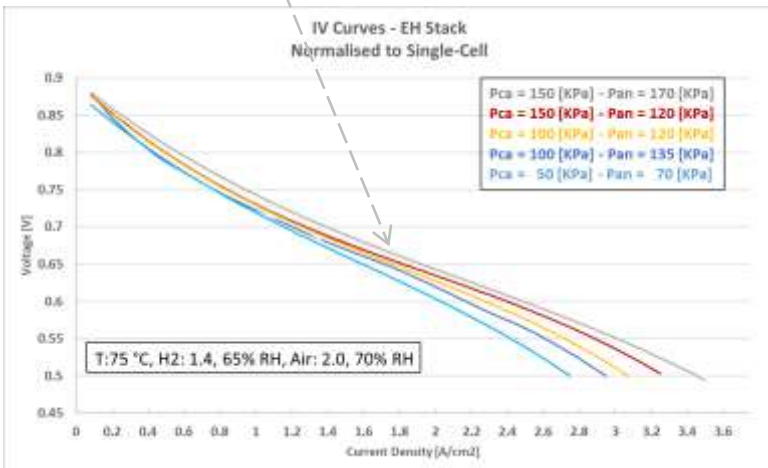
Technology Comparison

Parameters	Toyota (MIRAI)	Honda	PowerCell	Ballard (<i>High Performance FC</i>)	EHG FC STACKS
Volume Power Density [kW/L]	3.1	3.1	4.8	4.3	8.0
Weight Power Density [kW/kg]	2.0	2.0	2.9	2.7	4.0
Cell Pitch [mm]	1.34	~1	~1.0	N/A	<0.8

NOTE: data from other suppliers are collected from the public domain and EHG doesn't guarantee 100% accuracy

Example of Performance Curve

High Power Density at **lower** pressure



The Edge

STACK:

- Higher Power Density
- Power range: **0.1 – 250 [kW]**

SYSTEM

- Compact design
- Higher efficiency

SOLUTION

- Scalable
- Durable
- Customisable





EH Fuel Cell - Mobile Applications

- EH-31: 5kW fuel cell for range-extender
- Croatian OEM of heavy-duty automated industrial vehicles



- EH-51 7kW Fuel Cell System
- Handling Equipment OEM
- High performance duty cycles



Stationary Applications - 250kW EHG FC System

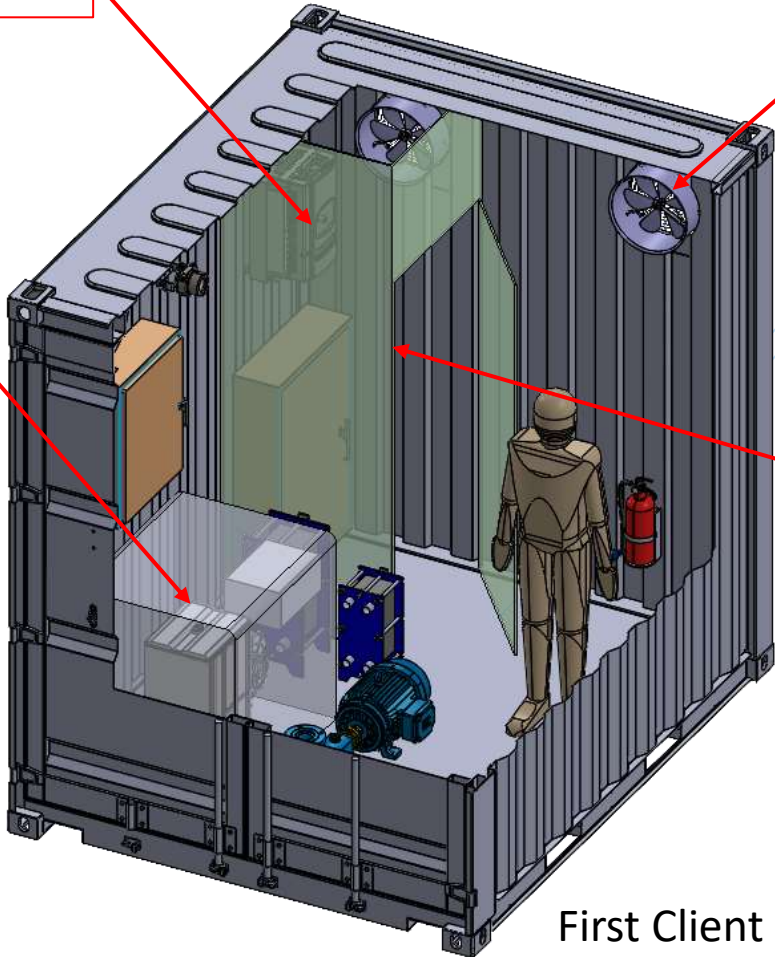


EHG FC System

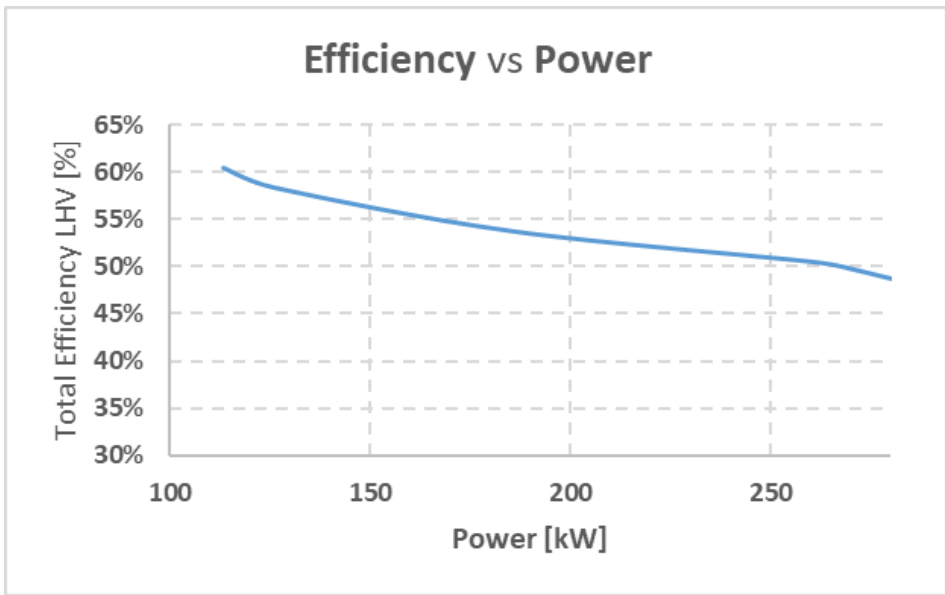
Inverter

Ventilation

Independent electronic room



Total System Efficiency vs. Power output



First Client Delivery October 2021