



Decarbonisation & Sustainability Day

Thursday 8th of june 2023

Let's talk about hydrogen!



Back to School

02

Fuelcel

How is it working?



EODEV Hydrogen genset

Meet and great



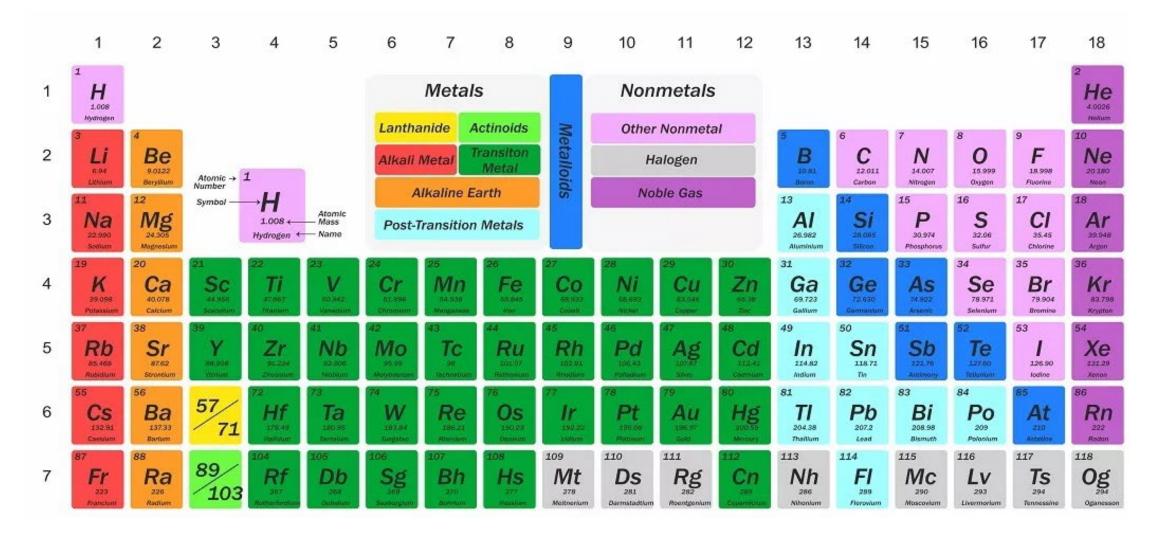
Safety and demonstration





Some Basic Chemistry





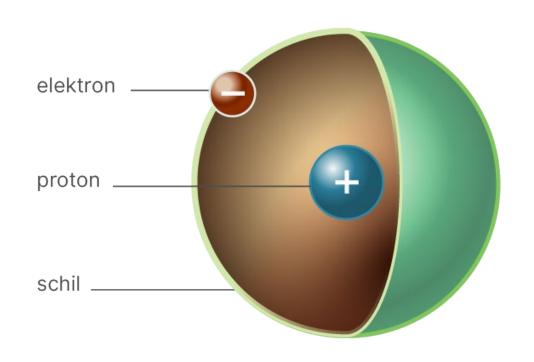






Close Up – Hydogen Atom & Molecule













Physics Hydrogen

Title

- 1kg H2 = 11m³ at atmospheric pressure

Compression needed!!

- Boiling point : -253°C (liquid Gas transition)
- Melting point : -259 °C (solid liquid transition)
- Energy density: 1 kg H2 = 4 kg diesel = 16 kWH electricity
- « Never » as a free molecule has to be produced
 - Color code depending on manufacturing procedure











Grey Hydrogen

Process:

Steam Reforming

Source:

Natural Gas



Blue Hydrogen

Process: **Steam Reforming** With Carbon Capture

Source:

Natural Gas



Green Hydrogen

Process:

Electrolysis

Source:

Renewable

Energies



Black Hydrogen

Process: Gasification

Source: Coal



Pink Hydrogen

Process: Electrolysis

Source: Nuclear Energy



Turquoise Hydrogen

Process: **Pyrolysis**

Source: Natural Gas



Yellow Hydrogen

Process:

Electrolysis

Source:

Solar Energy









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Physics Hydrogen

Title

- Fuel cell vs Combustion
- Quiet
- No emissions (except water)
- Fuel cell from Toyota
- 100% green when using green Hydrogen

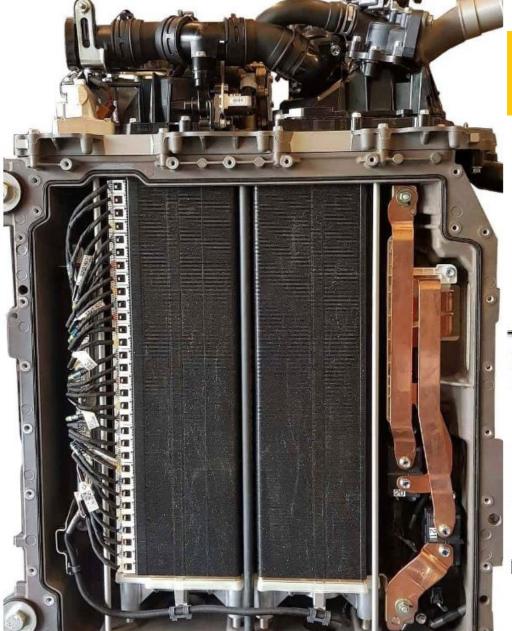








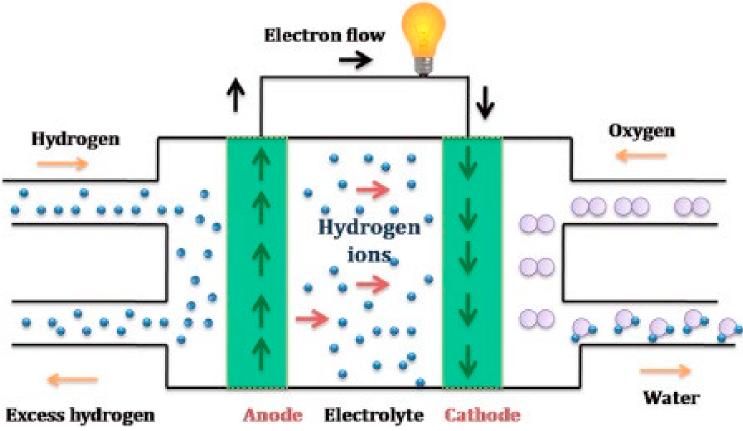




Fuelcel Working principles

Title











How it works Hydrogen combines with Oxygen within Fuel Cell Fuel Cell Prototype shown. Production model to be introduced in your region and country may vary.

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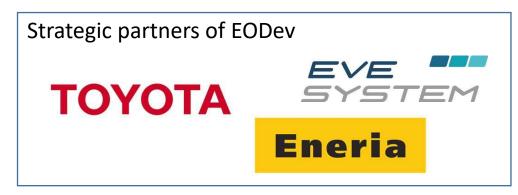




EODev







Sales and aftermarket for EODev products

Eneria

EODEV H2 genset

Title

- Prime power 100 kVA
- 230V / 400volt
- Can work parrallel for more power
- Price genset 230.000 € excl vat
- Sales and service through Eneria
- Eneria is shareholder from EoDev
- Hydrogen from Linde or Airliquide (330€ / gasrack 200bar 16 bottles)

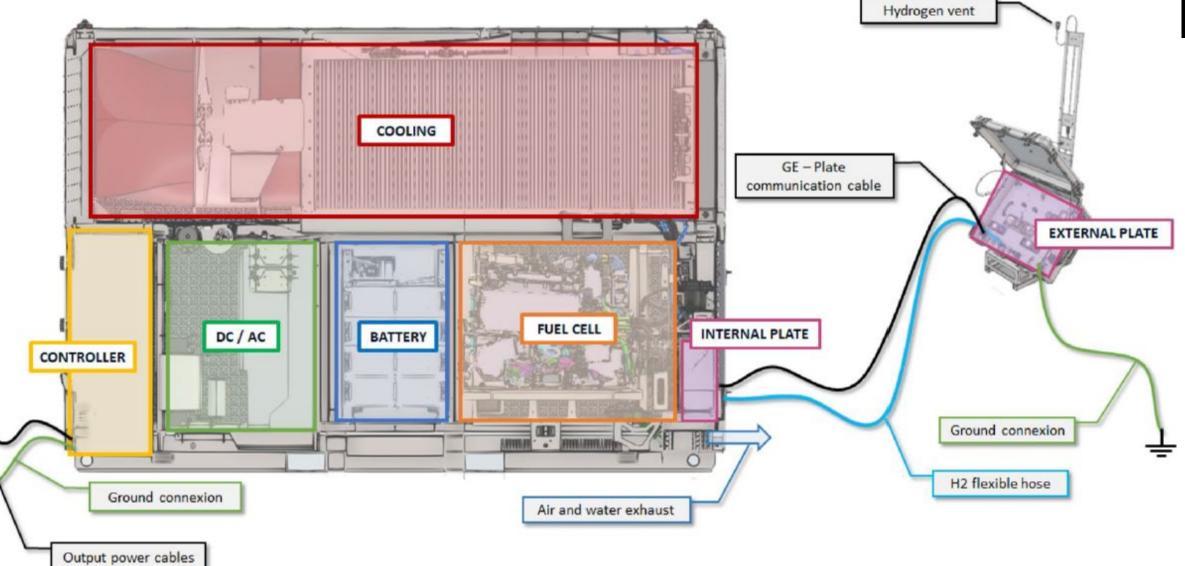








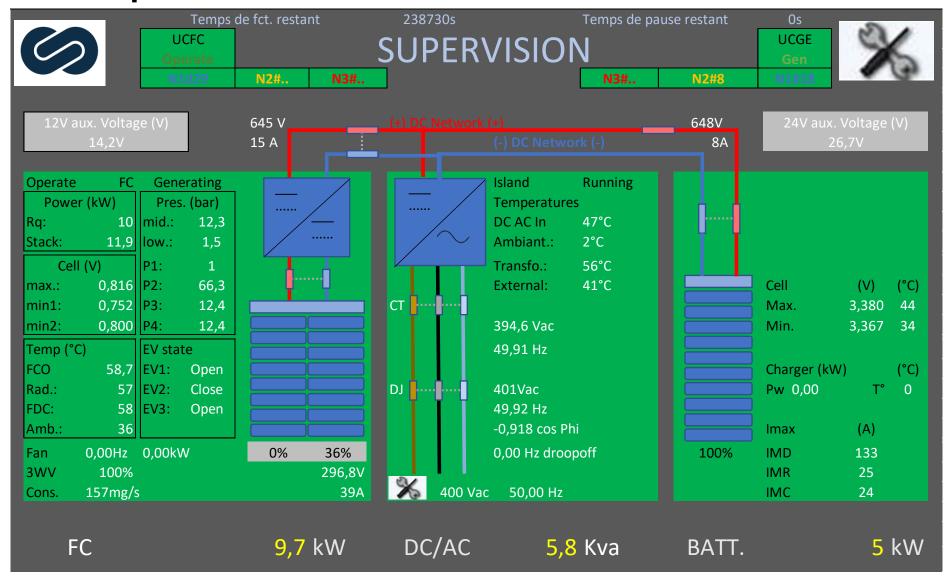
Close Up – Genset







Close Up – Genset Control Screen





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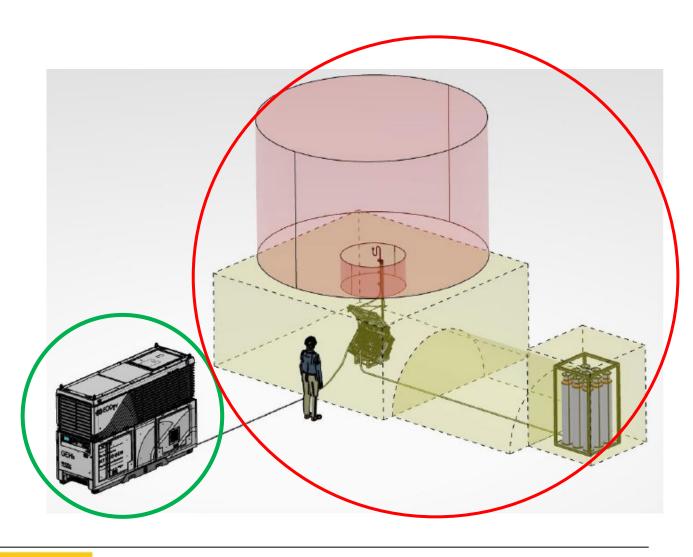






SOME SAY H2 IS DANGEROUS... ATEX ZONE?





Walk around and Demonstration

Title

- Safety briefing / ATEX zone
- 2 Gensets feeding a supercharger station for electric cars

Let's go outside!







