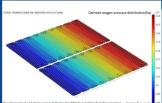
ACHIEVEMENTS



World's first H₂ refrigerated semi-trailer



Smart electricity and cold cogeneration isolated H₂ micro-grid



Multiphysical simulations from fuel cell to final power system



PEM fuel cells healthstate monitoring and diagnosis (FCH-JU)



120 kW PEM fuel cell test bench dedicated to industrial projects



First French FCV fleet deployment

HYDROGEN ENERGY

Facilities, Equipment & Expertise



FC LAB

CENTER FOR SERVICE AND RESEARCH





FACILITIES FUNDING





REGION BOURGOGNE FRANCHE COMTE





HYDROGENE

NEED SOME H₂ EXPERTISE? PLEASE CONTACT US!



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HYDROGEN ENERGY PLATFORM

600m² dedicated to H₂ systems tests

8 test rooms

Fully secured for advanced Ha testing Temperature and hygrometry control Gas supply facilities (Hydrogen, Nitrogen, Oxygen, mixed gas...) Quality standards: ISO 9001, 14001, 45001

OUR TESTING CAPABILITIES

- PEMEC stack tests from 500W to 120kW
- FC system tests up to 160kW
- · SOFC cell and stack test up to 1kW
- PEM electrolyzer stack and system test
- H_a storage test (partnership with ISTHY test center)
- Connected or off-grid H_o power supply solution test
- H_a powertrain test for mobility
- ATEX climatic chambers up to 3m³
- · Vibrating and climatic test bench compatible with H_a use:
 - ♦ 6Hz to 25kHz, 75G, 35600N
 - → -45/+120°C, 0 100% HR
- · ATEX anechoic chamber for ECM tests



OUR OFFER



TESTING

Access to our testing rooms, access to our test benches after training. support of our technical staff



STUDIES

Feasibility, sizing, numeric simulations, development of prototypes, tests of prototypes at reduced or full scale



PLATEFORME HYDROGENE ENERGIE

(F) FC LAB

SCIENTIFIC & TECHNOLOGICAL EXPERTISE

Supporting your projects



EDUCATION & TRAINING PROGRAMS

Customized from general seminar to specialized program

OUR EXPERTISE



More than 20 years in H₂ expertise

Very long duration tests: 24h/day, 7 days/week, thousands of hours

Cold start and temperature cycling tests

Advanced **characterization** in extreme range of operating conditions

Impedance Spectroscopy at high voltage and current

Ageing on real and accelerated dynamic cycles

