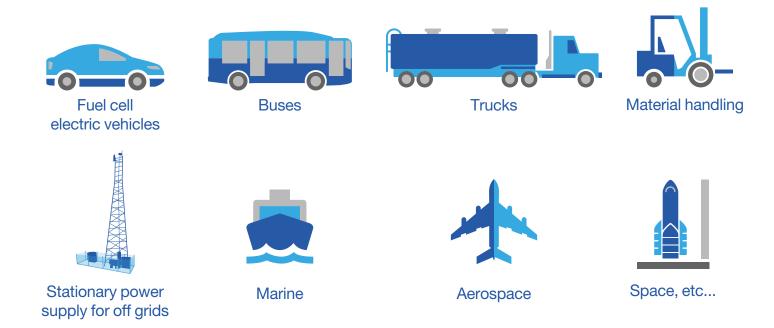


Hydrogen fuel cell engineering

Stacks – Systems – Industrialization – Test benches

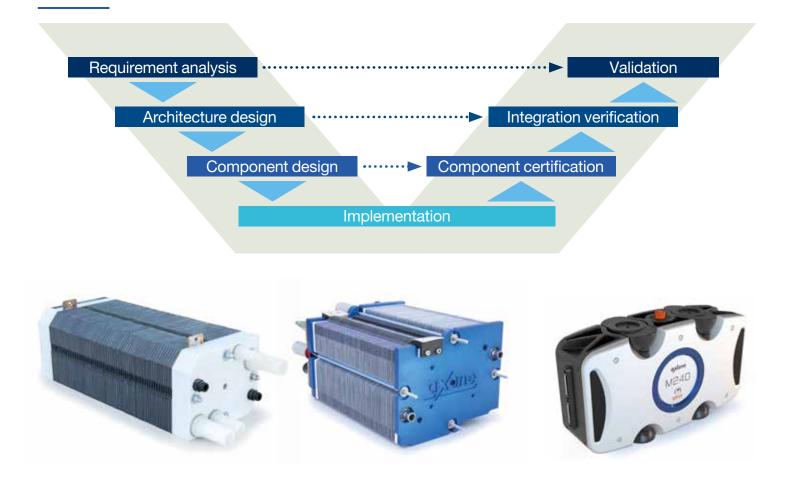


Field of applications



Axane, a subsidiary of the Air Liquide group, designs tailor-made solutions and provides hydrogen fuel cell engineering that covers every aspects required to customize your project involving fuel cell technology.

Typical "V cycle" development plan



Our benefits

More than 15 years of PEM* fuel cell solutions



From the AME to the integrated solution (design, prototyping, industrialization, production and operation)



Power density: 1.25W/cm²@@0.65V under automotive conditions



More than
20,000 hours
MEA lifetime in operation



Heat control: -20 / + 50°C ambient temperature (storage, start-up, operation)

* PEM: Proton exchange membranes



Low hydrogen consumption: 0.7 Nm³/kWh for complete system



A proprietary technologies portfolio:
liquid-cooled stacks (graphite closed cathode cells), air cooled stacks,
balance of plant, including the design of key components

Unique experience feedback



Thousands of systems deployed worldwide with "Axane inside"



Open industrial scheme:
Licenced production, technological transfert
and intellectual proprety sharing













A test center for hydrogen energy and fuel cells applications

- Fuel cell tests
- Hydrogen storage systems functionnal tests
- Components tests



Strength of a Group

- Axane is a 100% Air Liquide subsidiary
- Air Liquide hydrogen solutions can be handled globally and worldwide
- Patented technologies

Contacts

Axane

2, rue de Clémencière BP 15 - 38360 Sassenage, France Phone: +33 4 76 43 60 47

E-mail: fralat-contact-axane@airliquide.com

www.axane.com



The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 67,000 employees and serves more than 3.7 million customers and patients.