

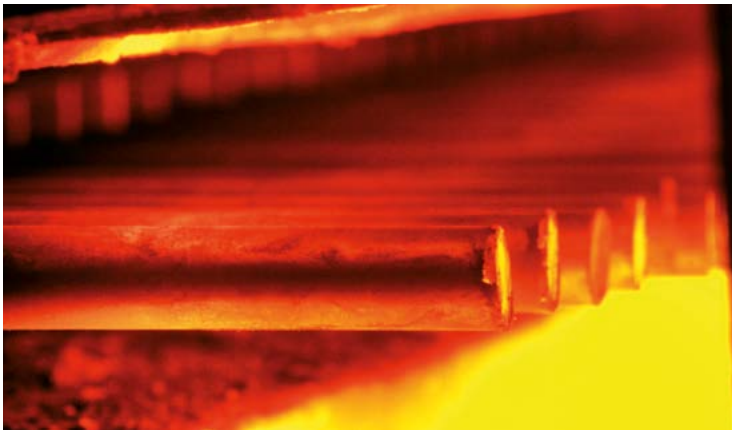
**AREVA H<sub>2</sub>Gen**

We make it happen

HYDROGEN  
**ON DEMAND** ●●●



  
AREVA



**AREVA H<sub>2</sub>GEN OFFERS A WIDE RANGE OF ON-SITE HYDROGEN GENERATORS DEDICATED TO INDUSTRIAL APPLICATIONS:**

- Power plant generator cooling
- Steel industry heat treatment
- Float-glass and glass treatment and for instance:
  - Hydrogen bell-type annealing plants
  - Bell and belt furnaces
  - Chemical industry
  - Electronics
  - Fat hydrogenation
  - Pharmaceuticals

**AREVA H<sub>2</sub>GEN PROVIDES ECONOMICALLY ATTRACTIVE HYDROGEN SOLUTIONS, COMPREHENSIVE ENGINEERING AND FULL SYSTEMS INTEGRATION, INCLUDING:**

- Compression
  - Storage
- Gas mixing







## ENGINEERING FOCUSED ON THE SYSTEM INTEGRATION OF HYDROGEN SOLUTIONS



### ENGINEERING OF INTEGRATED HYDROGEN SYSTEMS

With more than 25 years of experience in the design and development of PEM electrolyzers, AREVA H<sub>2</sub>Gen provides expert engineering resources for safe, cost effective, reliable and efficient hydrogen infrastructures.

*Myrte Platform - Corsica - France*

## CONSULTING & PROJECT SUPPORT

### FEASIBILITY STUDIES, CONTRACT MANAGEMENT

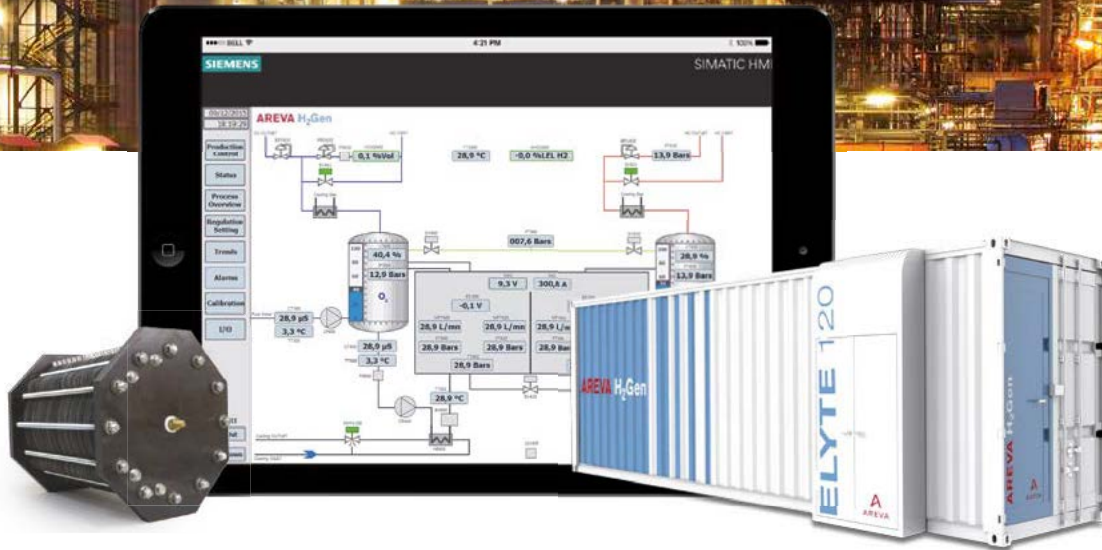
We share our experience in the development of leading hydrogen technologies, to support R&D strategies and help define project equipment.



## PROJECT MANAGEMENT

### ON-SITE CONSTRUCTION MANAGEMENT AND PROJECT COORDINATION

Our teams can provide customers with support during construction and assembly phase. They coordinate and manage the various actors and suppliers involved in hydrogen projects.



## PEM ELECTROLYSER

### AREVA H<sub>2</sub>GEN HYDROGEN GENERATORS ARE DESIGNED TO LAST OVER 20 YEARS.

Prioritising reliability and cost-efficiency, our electrolysers comprise modular architecture, that can be implemented as indoor or outdoor versions, based on 5, 10, 15 and 30 Nm<sup>3</sup>/h stacks and standard industrial components chosen for their proven industrial reliability.

All-in-one platform concept

Reliable, easy, clean and safe on-site hydrogen generation

Our standard product line systems produce between 5 and 120Nm<sup>3</sup>/hr

#### ••• ADVANTAGES •••



##### SAFETY

Environmentally friendly  
ATEX certified components



##### EFFICIENCY

Stack over 80%  
Full system over 70%



##### RELIABILITY

On 24/7 basis  
20-year lifetime



##### SIMPLICITY

KOH Free  
Cost efficient

#### ••• BENEFITS •••



• Flexible Use

• Plug & Play installation

• Cost efficient

## INNOVATIVE HYDROGEN STORAGE SOLUTIONS

#### ••• ADVANTAGES •••



EASY  
TRANSPORT



HIGH  
DENSITY  
STORAGE



LONG-TERM  
STORAGE  
No diffusion losses

Find out how to store 2 MWh of hydrogen in 1 m<sup>3</sup> of a Liquid Organic Hydrogen Carriers (LOHC)





## ABOUT US

### AREVA H<sub>2</sub>GEN IS A MANUFACTURER OF HYDROGEN GENERATORS USING WATER ELECTROLYSIS, BASED ON PROTON EXCHANGE MEMBRANE (PEM) TECHNOLOGY.

AREVA H<sub>2</sub>GEN has a pool of knowledge and expertise that is unique in Europe, the culmination of 25 years of research on PEM technology.

We offer a wide range of hydrogen generators that not only include core equipment but all auxiliaries in a single integrated platform.

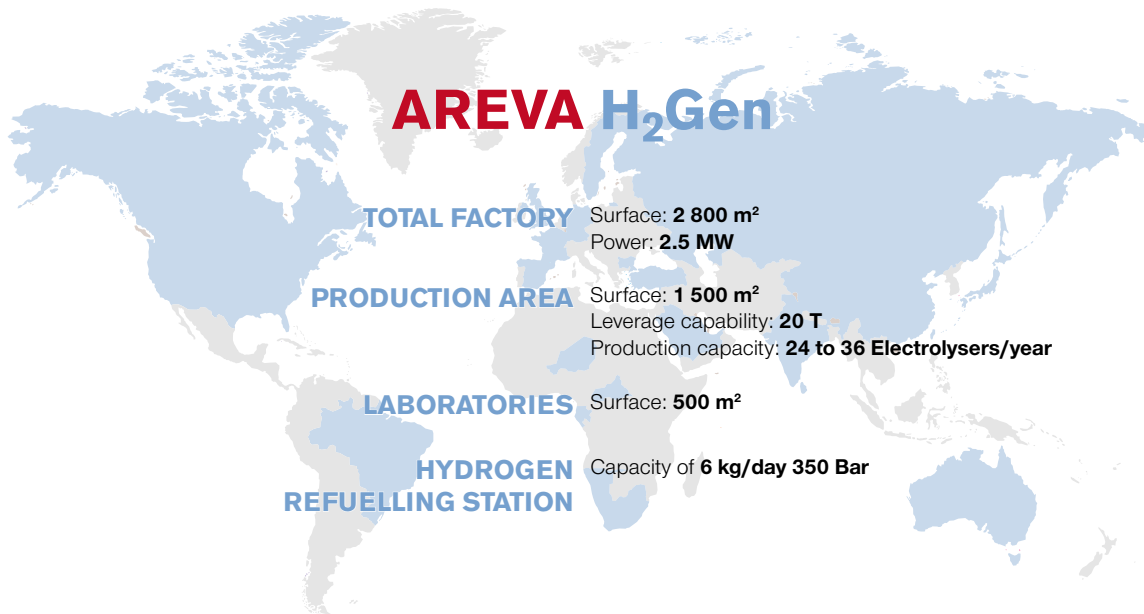
Our equipment meets the highest European and international safety standards. We are also an approved supplier of leading industrial gas distribution companies.

Dedicated to providing the market with cutting edge industrial applications, AREVA H<sub>2</sub>Gen is also a credible partner for its customers in their multi MW Projects to meet hydrogen-for-mobility and renewable energy storage challenges.

AREVA is a world leader in nuclear power. AREVA also invests in renewable energies to develop, via partnerships, technology rich solutions, through the complementary nature of nuclear and renewables.

## AROUND THE WORLD

### AREVA H<sub>2</sub>GEN HAS A WORLDWIDE NETWORK OF PARTNERS AND SUBSIDIARIES



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