FAURECIA HYDROGEN SOLUTIONS

# Pioneering Hydrogen Together

FORVIA faurecia

# Our **vision**

**At FORVIA, we believe hydrogen is key for effective decarbonization of the economy and is a technology providing answers to sustainable mobility challenges.**

Global supplier of hydrogen storage cylinders and systems with 4 running production plants in China, France & South-Korea, we pioneer hydrogen storage solutions for mobility, transport and distribution.

Our agnostic hydrogen storage solutions, whether gaseous or liquid, seamlessly integrate with both fuel-cell and $H_2$ ICE vehicles, delivering full compatibility and performance across all hydrogen-powered vehicle architectures.

Today, FORVIA is at the heart of a range of projects and partnerships accelerating hydrogen industry on a global scale.

CERTIFICATIONS

R134

GB/T

# **Onboard** hydrogen storage

## High-performance hydrogen storage solutions for mobility applications.

### LEADER IN HYDROGEN STORAGE SYSTEMS

- **Recognized Experience**
  Serial production since 2016. More than 34 million km driven with FORVIA hydrogen storage systems worldwide.
- **Cost-effective Type IV composite tanks**
  Produced in high-capacity facilities, offering an optimized weight-to-performance ratio.
- **Ready to use solutions**
  Tailored onboard solutions delivered as plug-and-play modules, supported by a wide tank portfolio.

### SYSTEM SOLUTIONS BASED ON A WIDE STANDARD CYLINDER PORTFOLIO

- **Cylinder types:** Type I · Type III · Type IV
- **Working pressure:** 35 MPa · 70 MPa
- **Tank family range:** 200 mm to 700 mm diameter
- **Available sizes:** from XS (30 L) to XL (560 L)
  Length up to 2420 mm

# **Bundle & Container** hydrogen storage

**Efficient hydrogen transport & distribution solutions reducing total cost of ownership and $CO_2$ emissions.**

## LIGHTWEIGHT SOLUTIONS FOR HYDROGEN TRANSPORT AND DISTRIBUTION

- **Lightweight & fatigue resistant composite cylinder**
  Designed for high working pressure
- **Complete MEGC solutions with partners**
  Up to 1 ton of usable hydrogen

## SAFE AND COST-EFFECTIVE COMPOSITE CYLINDERS SUPPLIED TO MEGC PARTNERS

- **Type III cylinders**
  Compatible with high speed in refueling & defueling: high & homogeneous thermal conductivity. Compliant with vacuum procedures: metal liner
- **Type IV cylinders**
  Maximized lifespan: corrosion-free plastic liner. High fatigue resistance allowing high pressure and storage capacity
- **Working pressure:** 38 MPa / 45 MPa / 52 MPa

# **Engineering Services** for Zero-Emission Solutions

## PRODUCT DEVELOPMENT

- **Simulation expertise from 0D to 3D**, virtual pre-validation, proof of concept.
- From specification definition to complete system design and optimization.
- **Prototyping**, proof of concept.


*Material Lab*

## MATERIAL LAB

- **Extensive capabilities** for metallic, plastic and composite material analysis.
- Root cause analysis, postmortem.

## IN-HOUSE TESTING

- Full performance and validation for high-pressure gaseous storage, from components to complete systems. Advanced cryogenic testing enabling fast and reliable validation loops.

*$H_2$ Shool*

## $H_2$ SCHOOL

- **FORVIA $H_2$ Academy.** Developing skills across the hydrogen value chain.
- **15+ training modules**. Covering fundamentals, safety, standards, and advanced product & system engineering.
- **Expert-led training**. All modules developed and delivered by FORVIA specialists.

# **Powering the rise** of a hydrogen ecosystem

*Shaping the future through partnerships and collaborative ecosystems.*

*HyMot*

## FASTER REFUELING

**Accelerating hydrogen adoption** with high flow (300g/s) refueling and high-capacity storage systems.

RHeaDHy

*Funded by the EU*

## SUSTAINABLE PRODUCTS

**Thermoplastic solutions**
Improving tank recyclability with advanced thermoplastic–carbon fiber construction, cutting environmental impact.

**Enhanced composite with Graphene additive**
Reducing carbon fiber content for more affordable and sustainable composite cylinders.

GIANCE
Fused with Sustainability

*Funded by the EU*

## LIQUID STORAGE

**Advancing liquid hydrogen storage solutions** through motorsport to unlock future heavy-duty mobility.

MISSION H24

## HYDROGEN COMBUSTION ENGINE ($H_2$ICE)

**Delivering uncompromised performance*** with zero $CO_2$ and zero pollutant emissions through advanced exhaust aftertreatment and high-performance hydrogen storage.

HyMot

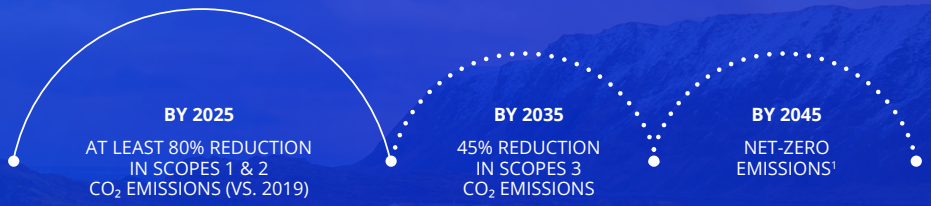
*Funded by the EU*

**versus existing Internal Combustion Engines*

# **A global organization** with a local industrial deployment


Production Plant
Sales Office
Technical Office
R&D Center

# $CO_2$ roadmap
## progress in line with our ambitions




SCIENCE BASED TARGETS

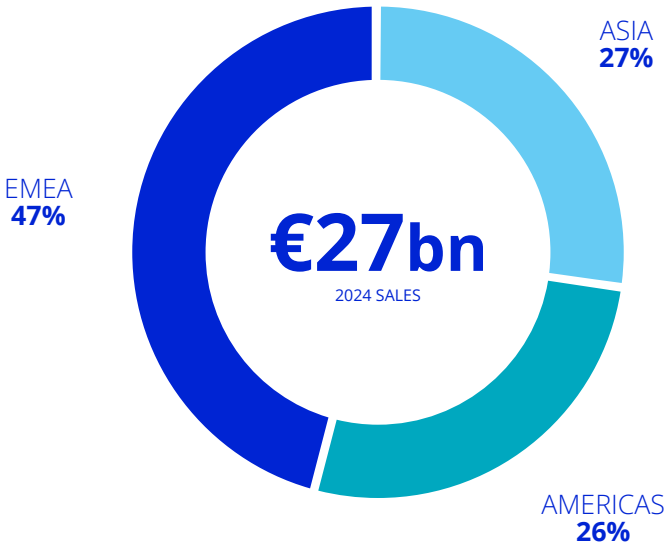
At FORVIA, we are tackling the issue head-on.
We are the first French company and the first automotive industry player worldwide to receive *Science-Based Targets initiative* (SBTi) certification for our concrete commitments towards carbon neutrality.

[1] 90% reduction in absolute GHG emissions from scopes 1, 2 & 3 compared to 2019,with the remaining 10% to be offset by removals.

# **FORVIA**
# at a glance

***One in two vehicles worldwide*** *is equipped with FORVIA technologies*

## **Strategic positioning**
in all major markets




**15,000**
R&D ENGINEERS

**12,900**
PATENTS IN THE PORTFOLIO IN 2024

**~900**
PROGRAMS IN 2024

**EUROPE**
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