HANNOVER MESSE

GERMANY
01-05 APRIL 2019
DIGITAL INDUSTRY HALL 8, F07
HYDROGEN + FUEL CELLS HALL 27, B70
Business France is the national agency supporting the international development of the French economy, responsible for fostering export growth by French businesses, as well as promoting and facilitating international investment in France.
It promotes France’s companies, business image and nationwide attractiveness as an investment location, and also runs the VIE international internship program.
Business France has 1,500 personnel, both in France and in 62 countries throughout the world, who work with a network of public- and private-sector partners.
For further information, please visit:
www.businessfrance.fr
Creative by nature, industrial by tradition, strongly innovative, France invents the industry of tomorrow and inspires the future. Its industry stands out through strong abilities, techniques and a unique savoir-faire. La French Fab is the new inspiration for industry, supporting a more digitized and respectful industrial era, sharing its industrial savoir-faire to connect talented people for more inclusive and competitive jobs in a protected environment. Renowned for its excellence, and with a strong avant-garde spirit, French manufacturing is at the forefront of the factory of the future.

What’s more, with La French Fab, France is at the cutting-edge of the digital transition, leading the next industrial revolution.

Launched in October 2017 by Bruno Le Maire, Minister for the Economy and Finance, with the support of Bpifrance, La French Fab brings together, under the same banner, the industrial ecosystem across France. It highlights the French manufacturing expertise and provides a vision to help revive and transform the industrial base, by connecting people, generations and territories, by implementing the use of digital and innovative solutions to sustain concrete answers to today’s challenges, in France and abroad.

The initiative is supported by the Alliance pour l’Industrie du Futur, Bpifrance, Business France, la Direction Générale des Entreprises at the Minister for the Economy and Finance, France Industrie and les Régions de France.

With La French Fab, experience industry in a new way.
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2B1ST CONSULTING facilitates digital transition in energy sector. Since 2012, we combine Industrie 4.0 specialists and experts from energy industries to develop digital applications for business development and collaborative innovation.

www.projectsmartexplorer.com is a projects data base that helps to "See Beyond". You can detect fast-track projects, identify best routes to market, play proactive and increase hit rate.

www.industrie4-0smartplatform.com is a collaborative platform that facilitates to "Move First". You can use digital twins to build scenarios, encourage innovative agility, value intellectual property, reduce risks and measure performances to convert POCs into reality. It is perfect tool to support digital transition of innovation processes in respect with new ISO 50501.
ALFI TECHNOLOGIES is specialized in engineering and manufacturing of automated handling lines and automated production solutions. It has developed a unique expertise in the fields of intralogistics (logistics and courier services, paper industry, tires and aeronautics) and building materials production (heavy clay, insulation, concrete, boards).

The company drives ambitious innovation programs and uses the best of industry 4.0 technologies for solutions dedicated to:

• optimize its customers’ performance,
• help reduce the environmental impact of production lines,
• improve methods and working conditions.

ALFI Technologies focuses on these three R & D fields to concretely contribute to the design of the smart industries: it develops a digital twin of its equipment to bring an empowered support to its customers.
AMIRAL TECHNOLOGIES specialises in Artificial Intelligence solutions for industrial Predictive Maintenance and Quality Control: Prediction of Defects, Aging and Remaining Useful Life of industrial equipment.

Our unique innovation in Automatic Feature Generation allows extraction of highly discriminant State-of-Health indicators from any time-based and transitional signal (electric signal, vibration, …). Our innovative Machine Learning-based predictive models use supervised and unsupervised learning to achieve unprecedented performance in terms of high prediction and low false alert rates.

Amiral Technologies is a spin-off of the French National Research Centre (CNRS), winner of the 2018 editions of the Digital Industry Award (Siemens and Atos) and of the Digital Industry Program (GE).
Based in the north of France, Blue Whale Company has developed a complete range of stand-alone, robust and easy-to-install IOT devices for water management and also for multi-energies management.

At the Hannover Messe the company will present its new 12 cm long fixture: The new SPCompact.

The SPCompact has received the Honoree innovation Awards in the Smart Cities category and the Climate Change Innovation Awards at CES 2019.

The SPCompact is an autonomous SMS driven valve. It monitors permanently the water consumption. In case of leak, it sends immediately an alert by SMS and shuts off automatically the water inflow. With a simple SMS on can re-open the water inflow.

The company will also present its new range of SMS piloted large valves for water distribution.
Bpifrance finances businesses from the seed phase to transfer to stock exchange listing, through loans, guarantees and equity. Bpifrance accompanies firms in their innovation projects and international activities and also insures their export activity through a large range of products.

Bpifrance, Business France, the Industry of the Future Alliance and Regions of France have moved, alongside the State, to serve as operators of La French Fab.

La French Fab, the standard bearer for French industry en route.

La French Fab is the rallying sign for a collective movement, the colours flown by the French Industry team. The La French Fab brand embodies the companies and industrial sites located in France which share the desire to develop French industry, adhere to the concepts and values of La French Fab, and are proud to wear its colours.

It federates the ecosystems of industry supported by all players in the territories who display La French Fab as a sign of unity.

La French Fab has the highest ambitions for the French industrial landscape:

- Accelerating the transformation of French industry by disseminating the concepts and technologies of the Industry of the Future.
- Networking the energies of French industrial players.
- Giving visibility and pride to those who make up French industry every day, and to French industrial excellence, in France and internationally.
- Embodying the prosperous future of French industry and the attractiveness of the trades which will comprise it - from initial, professional or ongoing training to employment.
- Clarifying the offer of public support for industrial activities in France.

Hall 8 F07 - Booth 2a

Bpifrance
27/31 avenue du Général Leclerc
94710 MAISONS-ALFORT
France

Elodie BARRIA
Export Development Manager
Cel.: +33 (0)7 70 08 24 91
elodie.barria@bpifrance.fr

Claudia FRAGOMENI
Event and Communication Manager
Cel.: +33 (0)6 08 61 63 32
claudia.fragomeni@bpifrance.fr

www.bpifrance.fr
Energiency is an innovative industrial energy performance analytics software founded in 2013 by data scientists and experimented engineers in manufacturing.

Energiency is a technology dedicated to Industry 4.0, bringing together cloud, data science and artificial intelligence in order to enable manufacturing companies to detect and achieve up to 15% new energy savings without Capex.

Following a strong international growth and already adopted by global manufacturing leaders in food, chemistry, automotive, paper or raw materials sectors, Energiency has received more than 30 international Awards and has been labelled as French Tech Excellence in 2019.
ERCOGENER has been one of the leading companies in IoT and MtoM fields for more than 35 years. Today, the company is an expert in intelligent communicating systems and remains at the cutting edge of technology using the latest innovations LTE-M, SigFox, LoRa or NB-IoT for example.

ercogener products can be used in many applications: geolocation, predictive maintenance, remote control, secure access, etc. and are entirely manufactured in France.

The company is distinguishing itself with its EG-IoT solutions, dedicated to harsh environments with the following features: geofencing alert, keep alive information and motion tracking.

ercogener teams bring you: innovation, robustness, reliability and sustainability in terms of products developed for various industries (Smart City, energy, farming, logistics).
INEVO is the specialist in Process Design for liquid, solids & gaz assets.

For 14 years, INEVO Technologies supports industrial and Start-up companies for Chemical, Biotechnologies, Oil&Gaz, Petrochemicals, Cosmetic and Pharmaceutical fields on the batch and continuous Unit Operations (evapo-crystallisation, distillation, extrusion…)

Thanks to its skilled team with complementary competences, INEVO Technologies provides:
• Process Optimization with Industry 4.0 applications,
• Process Industrialisation and scale-up
• Wastes limitation, Treatment and valorization
• Asset Revamping and debottlenecking
• Process training
• Process safety and site compliance
Since 2013, MONIXO designs Industrial IoT and machine learning algorithms for predictive maintenance. The solutions optimize the availability of machinery by anticipating 90% of failures and giving in real-time, the warranty of equipment’s proper operating conditions. Successfully deployed in many cutting-edge industries of energy, environment, automotive, and manufacturing, Monixo, in addition to anticipating failures, increases the MTBF of machinery over 40%.

For this 2019 edition of Hannover Messe, Monixo introduces the Fluidminer®, our new patented sensor for real-time fluid analysis. Developed in partnership with Total lubricants, this sensor enables continuous measurement of key parameters for bath monitoring: pH, concentration, conductivity, temperature,...
With more than 10 years’ experience in designing, manufacturing and selling advanced industrial manipulators NEODITECH is the recognized French leader in industrial manipulator arms and other ergonomic systems.

Thanks to the high innovative capacity of its multi-skilled Engineering Department NEODITECH provides efficient solutions with valuable benefits such as: exceptional fluidity, high precision, part taken outside the center of gravity, possibility of frontal loading, true mobility of the entire arm, very efficient quick tool-change interface, battery operated version, etc.

You aim for both enhanced performance and prevention of musculoskeletal disorders (MSDs)?
Join the customers who place their trust in us like AIRBUS, BOSCH, MAN DIESEL, SAFRAN, MICHELIN and a large range of industrial manufacturers, small and large alike.
OPTIMISTIK provides its customers OIAnalytics, the Industry 4.0 solution so you can be able to:
SIMPLIFY your data management and processing, and save some precious time to your teams.
MANAGE your activity by instantly accessing the right information and indicators for continuous, semi-
continuous and batch processes.
OPTIMIZE with algorithms for the identification of influencing factors and the optimization of operational conditions.
CAPITALIZE on your knowledge and know-how to develop your teams’ expertise.
AND improve every aspect of your performance.
PARADE, is the French safety shoes leader. Since the beginning, this young startup of 40 years old innovates to create the most ergonomic shoes, workwear, bags for the workers.

Because we know that you’ll need preventive and efficient safety for the future, in 2016, we created the first worldwide range of smart safety shoe that identifies falling alert and dangers areas.

PARADE SAS
Route de Chaudron
49140 SAINT PIERRE MONTLIMARD
France
Ph.: +33 (0)2 41 75 32 37
Fax.: +33 (0)2 41 75 33 03

Philippe COURTOIS
Chief Sales Officer
Cel.: +33 (0)6 69 18 0012
pcourtois@parade-protection.com

Florian MENARD
Export and Key account Manager
Cel.: +33 (0)6 80 11 91 05
fmenard@parade-protection.com

Anne Charlotte PIRON
contact@parade-protection.com

www.parade-protection.com

ICOMIX - Smart safety shoes by PARADE CONNECT
EMC2 is the main French network for collaborative innovation. It is dedicated to support French industry become more competitive and innovative. It gathers various actors - startup, SMEs, large international groups, research laboratories and training centers - with a common objective: to be at the fore front of the factory of the future.

EMC2 provides various services to support companies, especially SMEs, in their adaptation towards industry of the future. Setting up collaborative R&D projects, accessing private funding, supporting international development, industrial property, or manpower and skills planning...EMC2 expertise and network foster real development opportunities.

EMC2 also sets up structuring projects at European, national or regional level.
Software editor in data management M.E.S. and Manufacturing Intelligence, we offer our expertise in industrial data processing.

Productys is aimed at companies specializing in production, processing and packaging for the Industry. The strategy was born from a practical observation: every industrial company is looking to improve its competitiveness, while field decisions are taken without any real measure of the established capacities.

Productys Solutions assist all manufacturers at every stage of the production chain: from the planning to OFs execution and quality control to performance analysis (automated process or not).

Our goal is to contribute to the improvement of productivity, reduction of non-quality or production stoppages of time to increase the profitability of our customers.
PROSYST develops and markets products and services dedicated to the automated system performance.

To meet the challenges of the Industry 4.0, Prosyst develops innovative solutions (hardware/software) stemming from its strong commitment to research and development by providing solutions for Design, Simulation, Industrial Cybersecurity, Monitoring and advanced Maintenance of automated systems.

Prosyst is involved in all industrial sectors at a worldwide level: Automotive, Railway, Marine, Mining/Metal/Mineral, Energy and Infrastructure, Machine builders, System Integrators... Its customers include, among others, major accounts such as PSA Peugeot Citroen, Renault-Nissan, Bombardier Transportation, NAVAL Group, ArcelorMittal, Areva...
With an employment level of over 300,000 jobs, Hauts-de-France Region ranks as one of the heavy weights of the French industry: 1st region in railway and automotive industry, 2nd for technical textiles, 3rd for logistics. Aeronautics, agricultural machinery, chemistry, metallurgy, agri-food are also large economic sectors.

Cutting-edge know-how, culture of innovation, networks of excellence are also key assets that our Region has been building; together with 9 universities, 34 high schools, 8 competitiveness clusters, globally-recognized research labs and innovation platforms dedicated to technological transfer, Hauts-de-France Region claims its industrial and technological capabilities.
Be industrious, be industry.
The Pays de la Loire Region is a breeding ground for industrial pioneers.
1st French Region for establishing factories, 1st in shipbuilding & pleasure boat industry, 2nd in civil aviation, 3rd in automotive, Pays de la Loire hosts a large number of companies connected to a reliable research and academic ecosystem.

Our region gathers talents and skills dedicated to the development of Industry 4.0: advanced manufacturing, composites, virtual reality, artificial intelligence, IoT, robots and cobots, strong industrial capacity and logistic 4.0.

Our strength lies in our culture of networking that builds bridges between our main industries and contributes to make our region one of the most attractive in France.
SCORTEX is an automated defect detection and analytics platform for manufacturers needing to more accurately identify defective products in real time while improving overall plant profitability.

Scortex is the only deep learning quality inspection technology, capable of detecting defects in real-time to trigger targeted actions. The solution is shaped by each customer's quality specifications, combining edge compute hardware and machine learning software capabilities to continuously learn and improve the defect detection rate.

Hall 8 F07 - Booth 2c

SCORTEX
22 rue Berbier du Mets
75013 PARIS
France
Ph.: +33 (0)9 72 55 56 20

Mariam ALAMI
Marketing & Event Manager
Cel.: +33 (0)7 87 45 55 35
malami@scortex.io

Louis VANDECASTELE
Global Sales Director
Ph.: +33 (0)9 72 55 56 20
contact@scortex.io

https://scortex.io/
Companies understood that their value is in their employees. Intelligence, creativity, ability to innovate and to work with others, are the key-elements reached in “high potentials”.

However, today’s meetings look like yesterday’s meetings. Everybody’s sitting behind computer, a meeting leader, with paperboard and pens. Collaborative work needs that every member can act and interact on the meeting’s result.

The Ubikey’s software solution allows to participate in real time, and build together our own LEAN Management process, looking for efficiency thanks to brainstorming and creativity and using the most adapted 21th century’s tools!
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AD-VENTA is specialized in On board Hydrogen Systems. Turnkey solutions proposed by AD-VENTA are developed thanks to a largest Patent portfolio, expertise and experience on the control of high pressure compressed gases. Its markets are focused around all mobilities: Automotive, Aerospace, Naval and others. The quality of its achievements is recognized by many partners and major French and foreign groups. AD-VENTA AUTOMOTIVE, 1st subsidiary founded in July 2017 with FAURECIA CLEAN MOBILITY, produces and markets all EC79 approved components, thanks to knowhow and expertise of AD-VENTA.

AD-VENTA has designed the first multifunction On Tank Valve with an integrated regulator and pass is undertaking the tests to be approved for Fuel Cell Electric Vehicles.

AD-VENTA

190 allée de Bourgogne
26300 BOURG DE PEAGE
France
Ph.: +33 (0)4 75 48 87 47

Jean-Luc MUSSOT
CEO
Cel.: +33 (0)6 28 78 29 24
jlm@ad-venta.com

Emilie ANTERION
Sales Department
Cel.: +33 (0)6 63 73 87 76
ea@ad-venta.com

www.ad-venta.com
Supporting talent, improving business.
AER Bourgogne-Franche-Comté, an agency to support your development.
All our actions are realized in close collaboration and in adequacy with innovation and economic development stakeholders (generalist, sectoral, technological, academics, experts, financials), and with employment and training partners.

Corporate project engineering by territory’s strategic sector:
• Diagnosis of company’s need
• Technical, financial, legal and HR engineering
• Corporate real-estate and building land research
• Partnership research
• Connection with public and private stakeholders of innovation and economic development

Innovative project engineering
• Eco-innovation – in partnership with ADEME Bourgogne-Franche-Comté
• Intellectual property sectoral, technological and collective intelligence - done in partnership Chamber of Industry and commerce of Bourgogne-Franche-Comté.

Hall 27 B70 - Booth 5

AGENCE ECONOMIQUE REGIONALE DE BOURGOGNE-FRANCHE-COMTE
46 avenue Villarceau
25000 BESANCON
France
Ph.: +33 (0)3 81 81 82 83
Fax.: +33 (0)3 81 81 99 40

Nathalie LOCH
Project Manager
Cel.: +33 (0)6 32 83 00 49
nloch@aer-bfc.com

www.aer-bfc.com
ALCRYSTM FLUID-CONTROL

HYDROGEN EXPERT, pioneer in fluid-control valves
Unique Breakthrough Technology Valves & Pressure
Control Solutions for Hydrogen and Industrial High
Pressure Gases

Discover unmatched performances of HySmart® and
AlcrySafe® the comprehensive range of equipments
up to 100 MPa
Plug & Play Cube & Cartridge Technology:
No fittings ==> NO LEAKAGE = SAVE TIME
Turnkey solutions ==> ONSITE SET UP &
COMMISSIONING EASIER = SAVE TIME
Fully integrated ==> SAVE SPACE
Fast&Safe cartridges ==> ONSITE MAINTENANCE IN
LESS THAN 5 MIN = SAVE MONEY

Manual valves - Pneumatic valves - Electric valves -
Spring loaded regulators - Dome loaded regulators -
Multiplier dome loaded regulator - Filters - Check-valves

ALCRYSTM FLUID-CONTROL
26 avenue d’Arménie
Zone Bompertuis
13120 GARDANNE
France
Ph.: +33 (0)4 42 94 86 55

Olivier HEYRAL
PRESIDENT
Cel.: +33 (0)6 35 57 63 43
olivier.heyral@alcrys.net

Françoise GORI
Cel.: +33 (0)6 59 04 67 39
info@alcrys.net

www.alcrys.fr

Hall 27 B70 - Booth 4
Specialists of the hydrogen technologies, ATAWEY designs and manufactures hydrogen refueling stations and energy storage solutions for off-grid applications.

Atawey has developed a full range of hydrogen refueling stations at both 350 & 700 bar for vehicles. The stations, which include onsite hydrogen production, aim at initiating H2 mobility project (stations to refuel 1 to 5 cars) and at creating network of stations across territories (stations to refuel 10 to 40 cars)

Pioneer in the conception of energy storage solution connected to renewable energies, Atawey offers an innovative storage solution for off-grid applications (telecom antenna, island, eco-lodges…) based on the hybridation of batteries with hydrogen technologies to guarantee a standalone and continuous power supply 24/24 every day of the year.
Since 2001 Axane, a 100% subsidiary of the Air Liquide group, develops hydrogen PEM fuel cell technologies and products.

We propose engineering in every aspect of your project: definition, design, assembly, tests, expertise… for stacks and systems, ranging from kWs to 100s of kWs.

Axane proprietary technologies include:
- closed cathode PEM stacks air and liquid cooled (~70 cm. cells, ~250 cm. cells, ranging stacks from ~100 W to ~60 kW)
- graphite and metal cells
- baseload stationary power systems (FC Gensets).

Axane proven and recognized experience includes:
- more than three hundreds fuel cell systems deployments in Europe, North America and India
- on field durability exceeding 20 thousand hours with unlimited starts and stops
- widely spread out design in demanding industrial FC applications.

AXANE
2 rue de Clémencièr
38360 SASSENAGE
France
Ph.: +33 (0)4 76 43 60 47

Eric CLAUDE
CTO
Cel.: +33 (0)6 68 42 60 55
eric.claude@airliquide.com

Edmond BAILLOT
Business Development
Cel.: +33 (0)615 70 20 89
edmond.baillot@airliquide.com

www.axane.com
DAM has been designing test machines for automotive industrie for over 15 years. A first technological step was made possible by the modular machine concept with interchangeable smart tooling that allows to meet the needs for flexible manufacturing. On this basis, DAM has developed a new innovative machine integrated into an Industry 4.0 approach by developing the functionalities of adaptability and connectivity.

Focused on Industry 4.0 movement, DAM Group realized the most adaptable and competitive platform on the market.

- Leak test platform for Cylinder head / Engine Bloc / Housing / Turbo / Fuel Cell
- eMachine test platform for alternator/ starter/ emotors / P1/P2/P3/P4
- Hydraulic test platform for Solenoid, DCT, AT, CVT, P2, hydraulic components
- HIL test for ECU/ TCU/ PPTS/ EGSE/ AOCS /SCOE

DAM GROUP
200 rue Léon Blum
69100 VILLEURBANNE
France
Ph.: +33 (0)4 78 26 95 83

Samuel GUESNE
Software and Instrumentation
Department Manager
Cel.: +33 (0)6 81 40 76 52
s.guesne@dam.fr

Stéphane PFEFFER
Sales Manager
Cel.: +33 (0)6 23 19 50 02
s.pfeffer@dam.fr

http://www.damgroup.fr/
HyRiS system is a zero-carbon, silent hydrogen generator that produces high purity hydrogen, directly at high pressure without any compressor for decentralized refueling applications (stationary and mobility).

HyRiS products are green H2 refuelling stations for hydrogen electric drones, bikes... (H2 emergent markets) and a green alternative and low-cost solution to a “black” hydrogen logistics for laboratories and small industries hydrogen supply (compared to transportation, B50 rental or trailer tubes).

The HyRiS characteristics based on a split electrolysis technology are:

- the direct hydrogen production at high pressure
- a silent and reliable hydrogen supply solution (no compressor)
- decoupling energy consumption and hydrogen production
- higher safety and higher purity hydrogen thanks to split electrolysis.
GAUSSIN MANUGISTIQUE® is specialised in the auditing of handling processes and the development of wheeled handling systems used to place and transport heavy, bulky or fragile loads. With more than 50,000 handling vehicles worldwide, GAUSSIN Manugistique boasts a strong reputation on four fast-expanding markets: Energy, Transport, the Environment, and Raw Materials.

Gaussin Manugistique® has been listed on Euronext Alternext in Paris since 16 June 2010. Gaussin shares have been listed in the E2 trading group (public offering) since 20 July 2012, after AMF approval 12-360 was secured on 17/07/12 for the prospectus, available free of charge from www.gaussin.com
H2SYS is a company specialized in hydrogen fuel cell systems and hydrogen powered gensets. We design and manufacture PEM fuel cell systems that deliver power in a range from 500W to 3,5 kW. H2SYS fuel cell systems are equipped with balance of plant and user interface. A specific control software has been developed to control and record all data in real-time giving a plug-and-play experience to the user. H2SYS fuel cell systems are designed for both embedded and stationary applications.

H2SYS also proposes a range of electric generator powered by hydrogen. Totally noiseless and providing CO2 free electricity, the generators are hybrid systems where fuel cells systems and electric storage are integrated in a reduced volume making it easy to carry them everywhere. They can provide up to 15 kW of electric power.

On the customer interface (number and type of plugs) is customizable to answer specific needs for professionals.

H2SYS
33 rue de l’As de Trèfle
90000 BELFORT
France
Ph.: +33 (0)3 84 58 36 14

Théophile HABERMACHER
Commercial Engineer
theophile.habermacher@h2sys.fr

Sébastien FAIVRE
CEO
Ph.: +33 (0)3 84 58 36 53
sebastien.faivre@h2sys.fr

www.h2sys.fr
H2V INDUSTRY the world changes. An ambitious industrial plan who reduce carbon impact. H2V is an industrial company of massive hydrogen production by electrolysis of water, based on 100% renewable energy certified, it is the energy of the future. Our projects are developed in collaboration with architectural firms and engineering offices specializing in the construction of plants. In France, the first plants are under construction, and international developments are also very advanced. The evolving H2V INDUSTRY program provides an answer to all applications that will need low-cost ecological hydrogen: the petroleum and chemical industry, energy storage, mobility. By 2025, the industry developed by H2V INDUSTRY will have created 12,000 jobs and invested 3.5 billion euros.
HAFFNER ENERGY has developed a thermolysis process called HYNOCA® to produce renewable pure hydrogen from biomass at a cost at the pump approximately two times lower than Hydrogen produced by electrolysis. HYNOCA® converts 67% of the primary energy into compressed hydrogen for electric hydrogen vehicles. With 25 years of experience and 19 patents filed, the company also brings its experience in terms of technical engineering for the production and operation of power plants from biomass.

The proof of concept is made and HAFFNER ENERGY will launch in 2019 a continuous industrial demonstrator with a capacity of 120 kg of hydrogen per day. This project has obtained active support from ADEME and the “Commissariat Général à l’Industrie”, with a financial aid of 2.7 million euros.
Established in 2008 in France, MAHYTEC develops hydrogen tanks based on two technologies. MAHYTEC manufactures light, Type IV tanks that can store hydrogen for all kinds of applications. Our product range extends from big volume 60bar tanks for stationary applications through 525bar tanks for gas transportation, and up to 700bar tanks for onboard systems in cars. MAHYTEC also offers solid storage in the form of metal hydride tanks.

Thanks to its large scope of knowledge, MAHYTEC also supplies complete energy systems that integrate hydrogen generation and its conversion into electricity for backup energy systems. MAHYTEC is also working on hydrogen filling stations for the development of hydrogen mobility.
PÔLE VÉHICULE DU FUTUR is one of the leading automotive clusters in Europe (Eastern part of France). Federate industrials and research units in the field of future vehicles and mobility.

Actions:
- Collaborative research projects to bring near-market innovative products or services.
- Improve the industrial performance of companies: lean manufacturing and industry 4.0.

Products:
- Hydrogen vehicles / Fuel cell / Composites / Automotive components / Infrastructure and Car-to-X Communication / ITS / Mobility services

392 members / 200 funded projects (34 European).
European Gold Label Excellence / Comprehensive experience in the European research and cooperation programmes / Partnerships with german and swiss clusters.
SCHRADER is a global leader in fluid control valves across a wide range of markets as automotive, aircraft or industrial.

Schrader designs and manufactures high engineered valves for pressurized systems.

The valves are shut off valves for charging circuit, pressure regulators, safety valves, check valves and fast connectors... There are implemented in the automotive air conditioning circuits, in the high pressure gasoline engines or on the high pressure accumulators...

All valves are produced internally with a high level of control and automation. The zero defect is our culture indeed our valves have safety functionalities. That’s why Schrader is a multi-certified company: ISO 9001, IATF 16949, ISO 14001 and OHSAS 18001.

It’s in this context that Schrader has solutions to secure Hydrogen’s storage in case of over temperature or over over pressure.

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**Hall 27 B70 - Booth 7**

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**SCHRADER SAS**

48 rue de Salins - BP29

25301 PONTARLIER

France

Ph.: +33 (0)3 81 38 56 56

Sébastien ROBERT

R&I Engineer

Cel.: +33 (0)6 40 87 15 22

sebastien.robert@schrader-pacific.fr

Valentin MATHIOT

Market Manager

Cel.: +33 (0)6 18 95 77 35

valentin.mathiot@schrader-pacific.fr

Maud LEMOINE

OE Sales Manager

maud.lemoine@schrader-pacific.fr

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**Glossary:**

- **OTV**: Outlet Tank Valve
- **TRV**: Thermal Relief Valve
- **PRV**: Pressure Relief Valve
- **ASV**: Anode Shut-off Valve
- **HSV**: Hydrogen Supply Valve
- **APV**: Anode Purge Valve

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**www.schrader-pacific.fr**
Specialized in gas purification field, SERTRONIC design, manufacture and deliver hydrogen purification units for mobility, industrial and chemical market.

Our main technologies and range application are:

- Catalytic oxidation (Deoxo)
- Adsorption at ambient temperature
- Adsorption at low temperature (Cryogenic temperature)
- Flow rate design from laboratory up to many thousand Nm3/h
- Pressure design from atmospheric pressure up to 400 Barg

SERTRONIC
3 rue des Ebenistes
Bâtiment 3
77200 TORCY
France
Ph.: +33 (0)1 64 30 48 60
Fax.: +33 (0)1 64 30 48 61

Philippe LEGOIT
Manager
Cel.: +33 (0)6 64 43 45 56
philippe.legoit@sertronic.com

Marc LEGOIT
Technical Director
Cel.: +33 (0)6 14 25 49 54
marc.legoit@sertronic.com

www.sertronic.com
TENERRDIS is the French cluster for the energy transition and a catalyst for innovation across Auvergne-Rhône-Alpes region, a hub for the European—and global—energy industry.

Tenerdis supports innovation projects turning into sustainable economic growth and the creation of long-lasting jobs in energy-related SMEs & industries. It deals with a network of 240 members, spanning industry, local authorities, government, academia, and scientific research to address the challenges of the energy transition.

The cluster is organized around six Strategic Focus Areas: Renewable energy production and integration into the carbon-free energy mix; Energy storage and conversion; Multi-energy microgrids; Energy efficiency; Carbon-free mobility; Embedded intelligence and cybersecurity for energy systems.
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