

Proud of our factories



**MEET THE BATTERY INDUSTRY
FROM AUVERGNE-RHÔNE-ALPES REGION - FRANCE
JUNE 2024**

THIS BOOKLET IS PUBLISHED ON THE OCCASION OF THE AUVERGNE-RHÔNE-ALPES COMPANIES MISSION ON THE EUROPEAN BATTERY SHOW IN STUTTART IN JUNE 2024.

THE MISSION IS ORGANIZED IN LARGE PARTNERSHIP WITH PUBLIC AND PRIVATE STAKEHOLDERS COMMITTED TO THE EUROPEAN BATTERY INDUSTRY.



e-mobil 

ACCIÓ
Catalonia
Trade & Investment

 Generalitat de Catalunya
Government of Catalonia

 invest in
Lombardy



Tenerdis
 Auvergne-Rhône-Alpes

 electric mobility
south-west 

enterprise
europe
network
Business Support on Your Doorstep



 Business
France


TotalEnergies



La Région

Auvergne-Rhône-Alpes

ENTREPRISES



With the global demand for batteries expected to increase tenfold by 2030, and an ambitious national strategy for France driving an investment of 15 billion euros, the Auvergne-Rhône-Alpes Entreprises Agency is firmly committed to this rapidly growing industry. France anticipates the creation of 150,000 jobs in this sector, bolstered regionally by numerous collaborative projects and corporate missions within the framework of major international events.

We are particularly proud to participate for the second consecutive time in the European Battery Show in Stuttgart, leading a significant delegation of regional companies spanning the entire battery supply chain. We are pleased to bring together this collective alongside our partners: the competitiveness cluster Tenerrdis, the Europe Enterprise Network, and Team France Export.

For Auvergne-Rhône-Alpes, France's leading industrial region, this is also an occasion to strengthen economic ties with our three sister regions—Baden-Württemberg, Catalonia and Lombardy—with whom we form the 4 Motors for Europe industrial alliance.

We would also use this opportunity to promote our dynamic region and support international companies wishing to establish their facilities in Auvergne-Rhône-Alpes. We look forward to welcoming you to our thriving ecosystem, which federates over 180 innovative companies and start-ups, led by the innovation hub spearheaded by Verkor and the Battery School. Several companies have already made the leap. To highlight some recent developments, we are proud to welcome the Iveco Group's investment of more than 112 million euros to enhance their manufacturing capacities for electric and hydrogen-powered buses, as well as the Japanese electric motor manufacturer NIDEC's announcement of a new plant dedicated to producing stationary battery storage systems.

The Auvergne-Rhône-Alpes Entreprises is confident in the promising future of the European battery sector and invite you to discover more about our vibrant ecosystem in the latest.
I wish you all a great mission and an excellent show !

Franck COLCOMBET,
President of the Management board of Auvergne-Rhône-Alpes Entreprises

SUMMARY

Meet the battery industry eco-system from Auvergne-Rhône-Alpes region

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ENTREPRISES

1. INTRODUCING AUVERGNE-RHÔNE-ALPES ECOSYSTEM

AUVERGNE-RHÔNE-ALPES, A DYNAMIC REGION

With 8 million inhabitants and a GDP that places it to the 5th rank in Europe, Auvergne-Rhône-Alpes is the first industrial region in France.

The region is rich in innovative and competitive expertise: energy, mobility, aeronautics, construction, digital and electronics, health, chemicals, agriculture/food and forest, sports/mountain/tourism, mechanics/metallurgy/machines/robotics, plastics, luxury, textiles.

With major research centers on a global scale and 22 clusters, it ranks 2nd in France for the number of patents applications and have a great innovation potential.

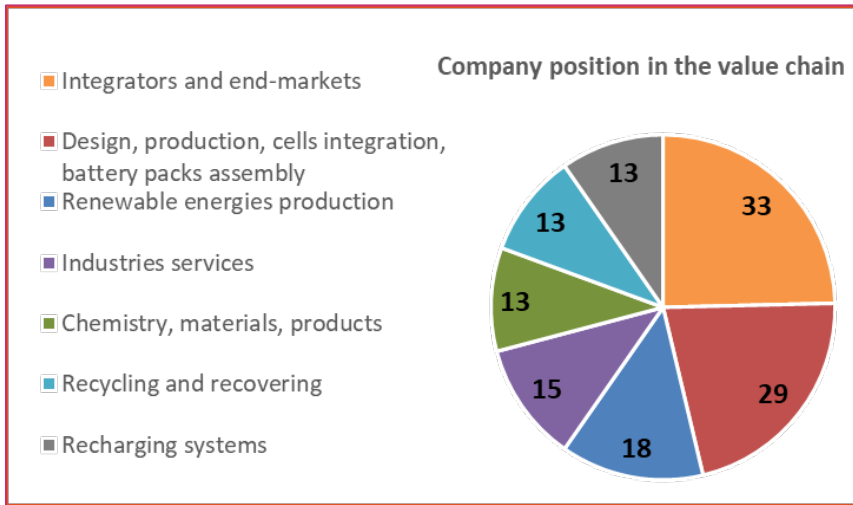
The strategic location of Auvergne-Rhône-Alpes opens the door of Europe with Italy, Switzerland and Germany.

According to the business attractiveness barometer by E&Y, Auvergne-Rhône-Alpes is the 4th European region in terms of the number of establishment projects.



BATTERY SECTOR in auvergne-rhône-alpes: Companies operating throughout the entire value chain

149 companies of which 50% are SMEs work in the battery sector in Auvergne-Rhône-Alpes.



Verkor Innovation centre

📍 The employment areas of **Lyon, Grenoble** and **Chambéry** account for **72%** of regional businesses in the sector.

📍 Businesses in the region **mostly define their activity as integration into vehicles and design/production/cell integration and battery pack assembly.**

Source: Auvergne-Rhône-Alpes Entreprises, Economic Intelligence Dpt

EXAMPLES OF THE Regional innovative COMPANIES REPRESENTING the entire battery value chain

R&D and raw materials

Chemicals and materials



R&D



Design and manufacturing

Cells and battery packs



BMS/EMS control systems



Testing and certification

Manufacturing of testing machines



Certification bodies and test centres



Recycling and recovery

Recycling and recovery

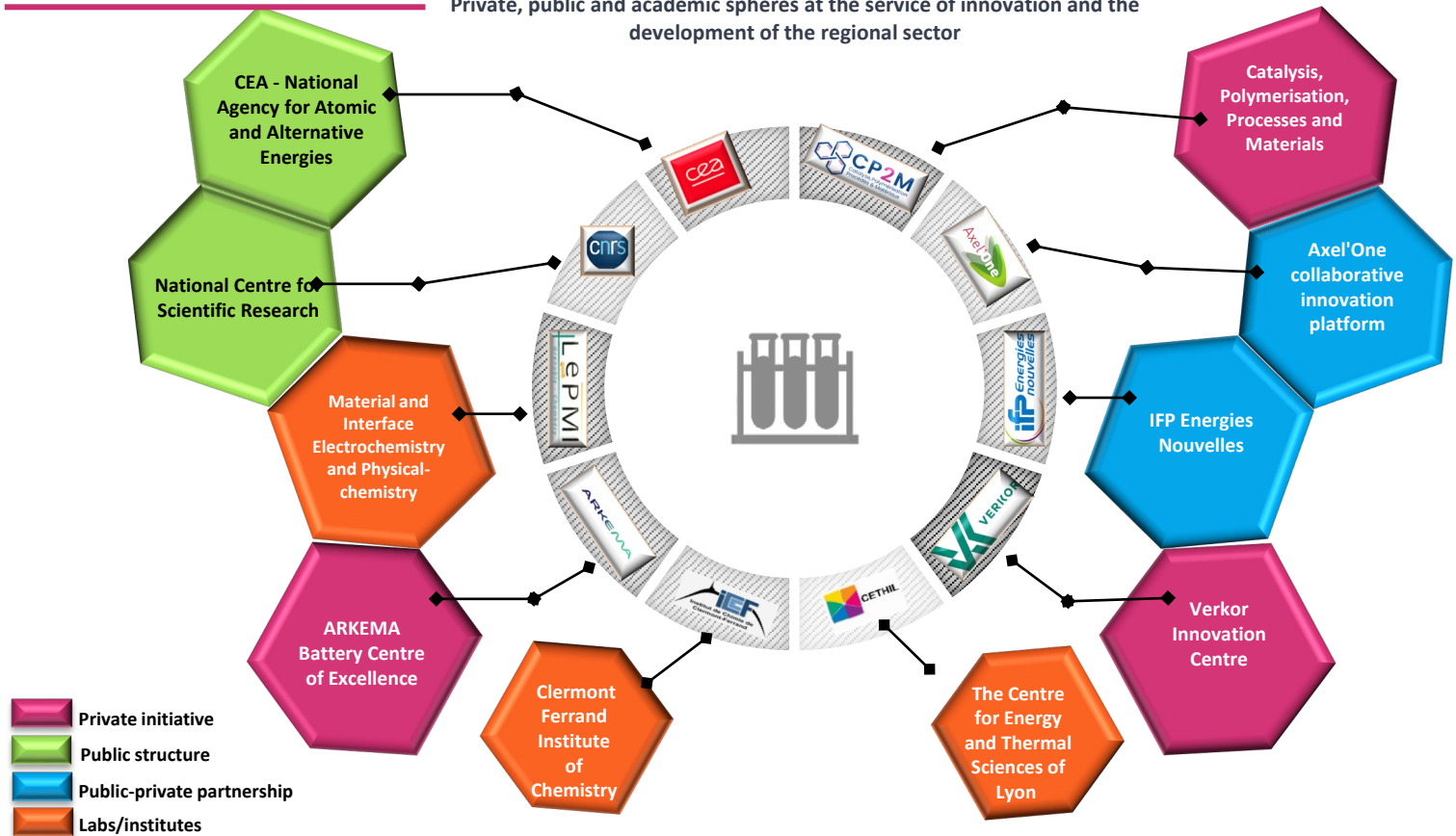


Integrators and end markets

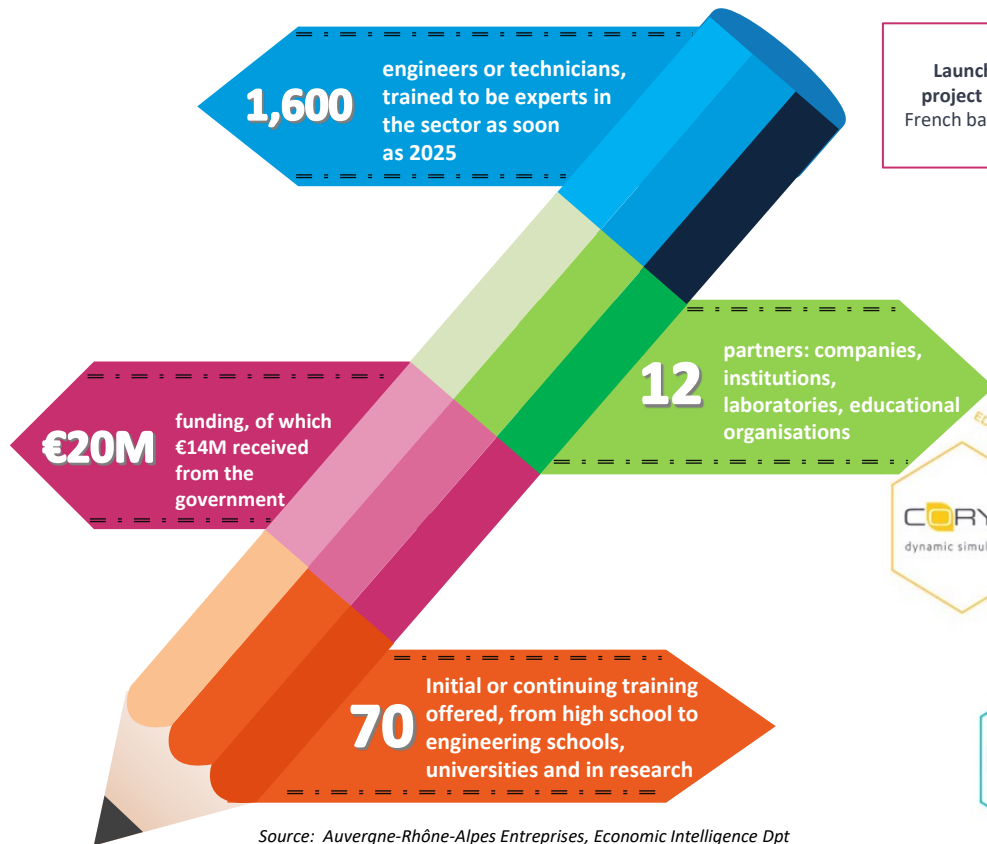
Automotive, construction, aeronautics, medical etc..

Main research and innovation ORGANISATIONS

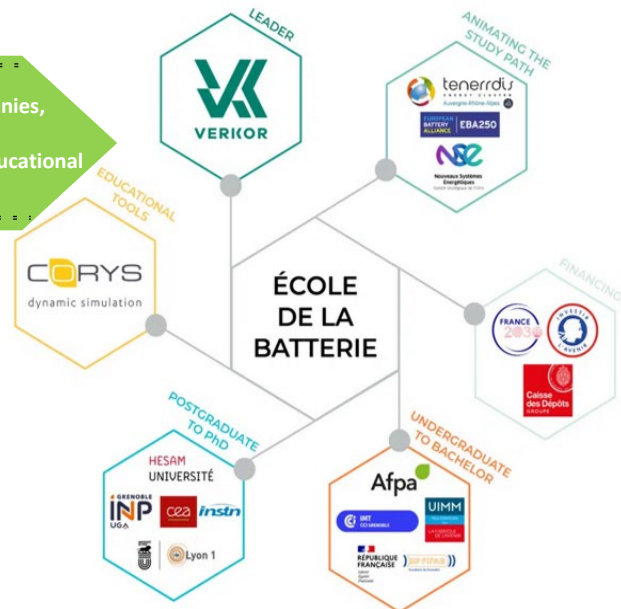
Private, public and academic spheres at the service of innovation and the development of the regional sector



the battery school: a unique public initiative in France



Launched in September 2022, the aim of the battery school project is to meet the labour demand for skilled workers in the French battery sector, from battery design to the repair of electric vehicles.



Source: Auvergne-Rhône-Alpes Entreprises, Economic Intelligence Dpt

Recent collaborative research and innovation projects

Private actors and public structures working together to develop the regional sector

Mecaware/Verkor

Construction of an industrial unit for the recycling of waste from the production of *giga-factories* and the reincorporation of metals into the value chain

Recycling and recovery

Lepmi/Blue Solution

Development of an “all-solid” battery with better recyclability, better performance with optimised charging and a more affordable cost.

Autonomy and security

Linksium/CNRS

Management of the consortium (batmat) aimed at developing new generation batteries, specifically through amplifying and promoting research work for the battery sector

Technology transfer

Arkema/CNRS/CP2 M/CPE Lyon

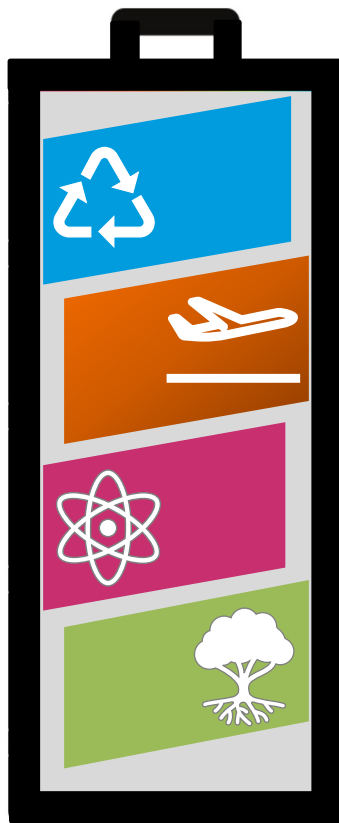
Launch of a labcom (IHub Poly-9) dedicated to the design of new materials for future battery generations

Performance and efficiency

Examples of innovative regional projects: ecology, efficiency and connected objects

1 Magreosource

A new technology that helps produce industrial magnets from recycled magnets, more specifically using additive manufacturing processes to limit losses. The company is planning to recycle 50 tons of rare earth magnets every year.



2 Limatech

A new generation of lighter, smarter and more durable batteries for sustainable mobility in aeronautics. A production site is under construction and will eventually produce 30,000 battery packs.

3 Injectpower

Rechargeable, miniature and high energy density micro-batteries destined to supply energy more efficiently to implantable and connected medical devices. These batteries should provide more accurate and reliable biometric data collection.

4 BeFC

An innovative paper-based and enzyme-based battery (bio-battery) for connected objects (IoT). As it is biodegradable, it can supply electricity to low-power disposable electronic devices such as connected medical devices or sensors used in logistics/transport.

main private investment operations in 2022

ITEN : €80M invested via “SPI2” project with the creation of **100 jobs** with the aim of accelerating the industrialisation of recyclable and rechargeable lithium-ion micro-batteries.

Mecaware: installation of a pilot line for the recycling of scrap batteries in the VERKOR innovation centre (VIC). Over €15M will be invested (Scrap CO2MET Project).

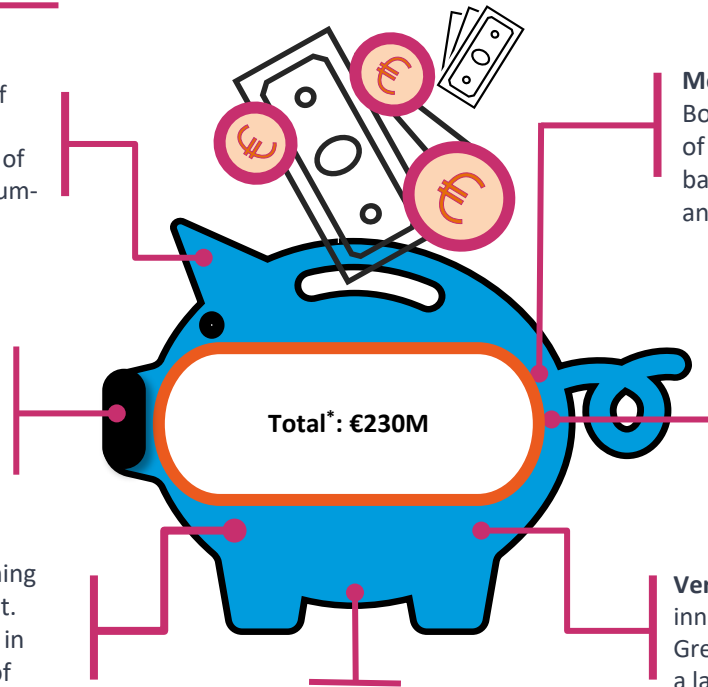
Imerys: launch of a lithium mining project in the Allier department. The site should start operation in 2027 after a total investment of **€1bn** and the creation of **300 direct jobs**.

EasyZinc: opening of a green production line of active materials for the design of zinc batteries. Creation of **20 jobs** with **€8M** invested.

Mersens: modernisation of the Saint-Bonnet-de-Mure plant for the supply of smart laminated interconnection bars for Stellantis batteries. **€25M** and **50 jobs** announced.

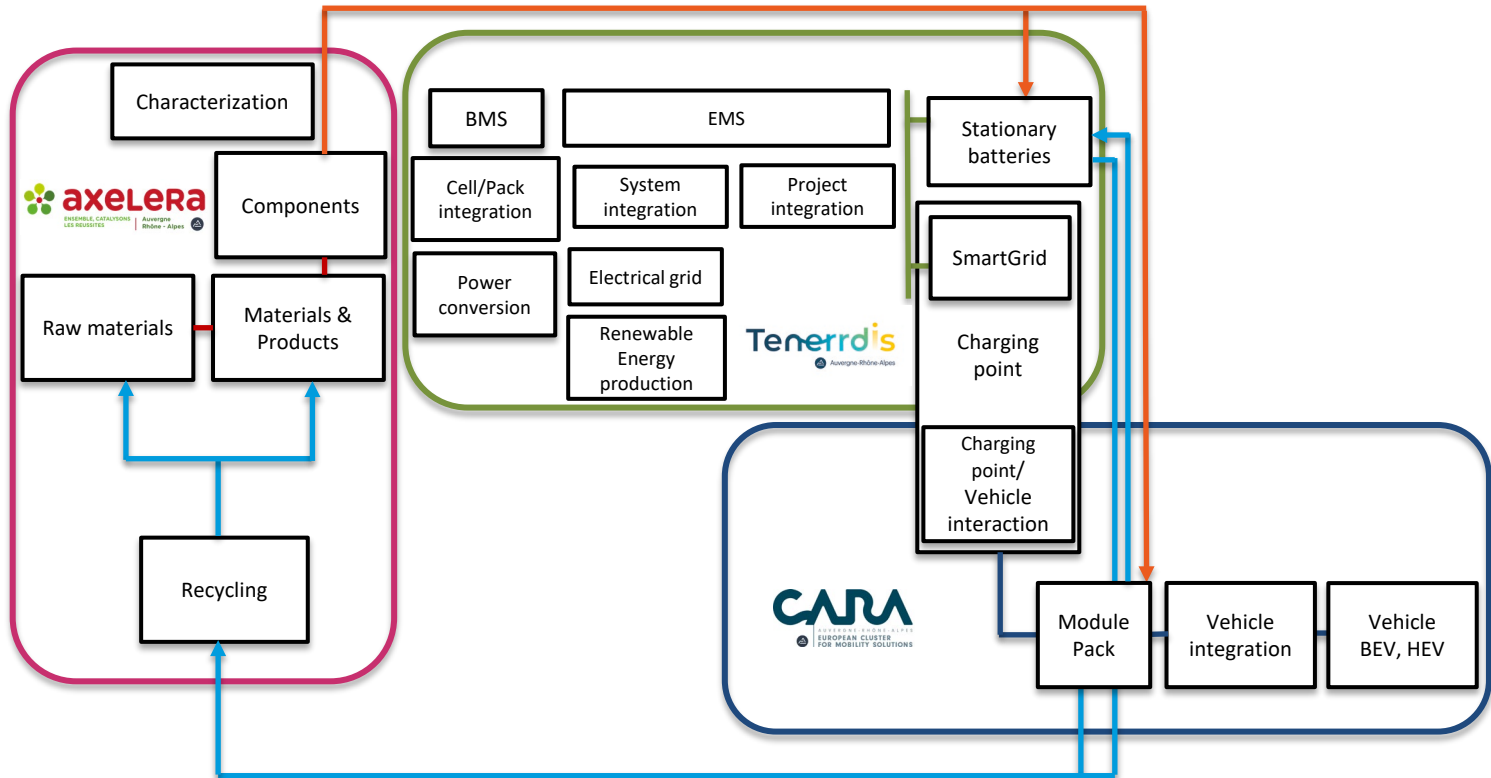
Limotech : construction of a lithium-ion battery manufacturing plant for aeronautics with **€10M** invested.

Verkor: **€250M** raised in 2022. The innovation centre is launched in 2023 in Grenoble. **€100M investment** includes a lab, an intelligent pilot line and a training centre.



*Source: Trendero data

3 COMPETITIVENESS CLUSTERS COMMITTED TO SUPPORTING THE REGIONAL BATTERY SECTOR



Source : Regional value chain presentation, Axelera, Tenergy, CARA, January 2021



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Auvergne-Rhône-Alpes

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2. EXHIBITING COMPANIES



Lionel GAILLARD
Sales

www.carpenter.com

BOOTH N°: 9-B30

EXPERTISE, BUSINESS OFFER

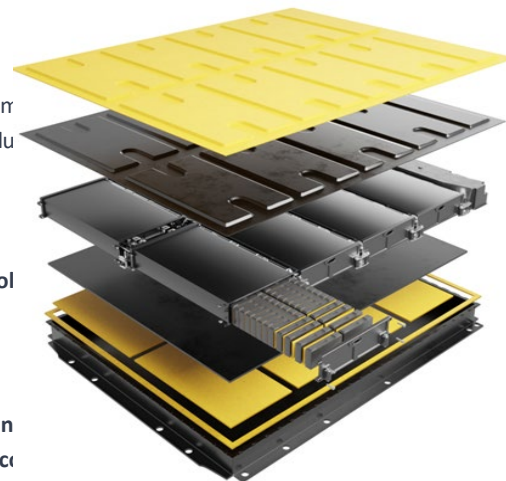
- 🔊 Carpenter offers solutions for the protection of battery cells and battery packs for transportation and industrial applications. Carpenter provides purpose-designed pads and materials to protect, seal and thermally insulate the battery cells and battery pack. Carpenter offers forward-thinking solutions for noise reduction and thermal management.

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

- 🔊 A portfolio dedicated to EV batteries & thermal control solutions for any cool

TARGET MARKETS, INDUSTRY ADDRESSED

- 🔊 In Mobility, our portfolio includes solutions for conventional and electric vehicles, aircraft, aerospace and a wide range of public transport applications
- 🔊 Engineered to deliver tailored silencing, sealing and filtering attributes for acoustically and thermally challenging environments, our products are used in industrial equipment
- 🔊 such as white goods, HVAC systems, metal processing or packaging solutions.



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Fabien ROCHE
Business and Process Engineer

<https://converting-systems.com>

BOOTH N° : 8-E30

EXPERTISE, BUSINESS OFFER

- Intelligent Laser and Rotary Cutting Machines
- Laminating & Cutting of flexible materials
- Tailor-made Precision Die-Cutting Solutions

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

- Innovative & Substain Solutions for production of
- Electrodes, Separators, Cell Pouches, Insulators, Current
- Collectors, Flexible Flat Cables, Thermal Management parts
- & Microbatteries

TARGET MARKETS, INDUSTRY ADDRESSED

- E-mobility (EV's Batteries) and Microbatteries
- Electronics (RFID & NFC labels)
- Medical (Monitoring patches)



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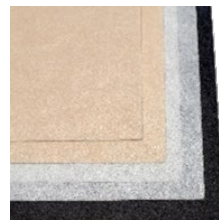
Today we are witnessing an exponential increase in the e-mobility market. A key requirement of the market is a great autonomy of this transportation and of course, the assurance of their safety of use.

To achieve these goals, all e-mobility and battery pack manufacturers are focusing on increasing the energy density of cells, increasing the number of cells in the modules and decreasing the weight. At the same time, and due to the emergence of this new market, regulations are also evolving and regulatory requirements are becoming increasingly stringent in terms of battery safety imposed on manufacturers.

Enersens now offers THE solution for all these performance aspects and regulatory constraints: a super-insulating sheet, ultra-thin and very light, creating a real protective barrier to avoid all the safety problems. Designed to be placed between cells, the Skogar® is the key to prevent thermal runaway from cell to cell thanks to extreme insulation properties, high mechanical properties and high fire stability.

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

- LILIUM, VERKOR, SAFT, SAFRAN, ACITURRI, etc.
- European EN.MOTION project (funded by the EIC Accelerator program – Horizon Europe)
- MATICS project (funded by BPIFRANCE)



TARGET MARKETS, INDUSTRY ADDRESSED

- Aviation and Aerospace Batteries Market, Defense Batteries Market, Electric Vehicle Batteries Market



Gaëtan DEPAEPE
CEO

<https://entroview.com>

BOOTH N° : 9-B30

EXPERTISE, BUSINESS OFFER

- Entroview is a deep-tech start-up based on thermodynamics research for lithium batteries. With our patented method, we develop diagnosis software for defect detection, state of charge (SOC) and state of health (SOH).

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Research & development partnerships with:

- Three European Gigafactories for Quality and defect detection
- Two automotive company for real-time LFP SOC
- Three major European players for SOH diagnosis for second life diagnosis

TARGET MARKETS, INDUSTRY ADDRESSED

- Gigafactories
- Automotive companies
- Energy Storage companies



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Beyond standards



Guillaume CECCHY
Technical manager

<https://esopp-group.com/>

BOOTH N° : 10-E50

EXPERTISE, BUSINESS OFFER

Innovative Company in Biax Films / Applications in BOPP, BOPET, BOPA, BOPI, BOPE, Bio Polymers for packaging and technical applications like Battery Separator, Optical films / Green Solutions

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

China (>20 lines in wet process), USA (1 ligne in dry process), total more than 200 lines in the world

TARGET MARKETS, INDUSTRY ADDRESSED

Our markets in LiBS are on 4 continents for manufacturers wishing to supply separators to battery manufacturers or battery manufacturers who wish to vertically integrate their business



Auvergne-Rhône-Alpes

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Yves LEMBKE
E-mobility Market Leader

www.gindre.com

BOOTH N°: 9-B30

EXPERTISE, BUSINESS OFFER

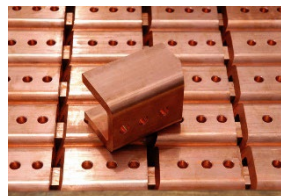
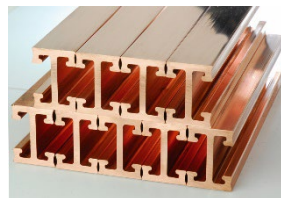
- Production of copper bars, profiles, coils and components 100% out of recycled copper

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

- Schneider Electric, Siemens, Socomec, ABB, Alstom ...

TARGET MARKETS, INDUSTRY ADDRESSED

- Electrical industry, rail, E-Mobility



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Fabrice FERRETTI
Segment Sales Manager

www.HyperionMT.com

BOOTH N° : 9-B30

EXPERTISE, BUSINESS OFFER

Hyperion rotary cutters deliver precise, high-output processing for efficient, cost-effective production of EV battery and fuel cell components, including electrodes, insulators, and separators. The exceptional cutting precision and machine notching capabilities minimize waste while ensuring consistent quality and optimal battery performance.

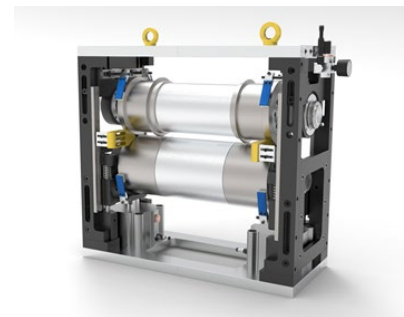
Hyperion slitting solutions offer high-speed, precision slitting for the conversion of metallic foils, separator membranes, and thermal management materials for the production of EV battery and fuel cell components. Hyperion's tight tolerance control minimizes waste and ensures uniform thickness to optimize battery performance.

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

- Not disclosable

TARGET MARKETS, INDUSTRY ADDRESSED

- EV battery and fuel cell components, including electrodes, insulators, and separators.





Michel POPOVIC
Co-founder & sales manager

www.incore-systems.com

BOOTH N° : 9-B20

EXPERTISE, BUSINESS OFFER

In-line inspections solutions for defect detection and dimensional control, installed at the multiple steps of the electrode manufacturing (coating, calendering, slitting) allowing to accelerate start-up, increase yield and ensure quality. The Real-time data information allow to reduce scrap thanks to a very fast detection of the process drift for close loop control or corrective action from operator.

Individual electrode traceability solutions (2d code marking system, data collection and contextualized data acquisition and storage) allowing to eject bad electrodes before cell assembly, for quick root cause investigation of battery performances and process improvement through analysis of data driven decisions.

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Saft, Verkor, BlueSolutions, Armor, Cellforce, Leclanché, Rivian, Solidpower, Saft USA, Daimler, Ukbic, Northvolt, Faam, Daimler Truck

TARGET MARKETS, INDUSTRY ADRESSED

Battery manufacturers in all electrode manufacturing steps (coating, calendering, slitting, winding, notching, stacking)

All high-value converting industries where defect are critical and costly (composites, fiber carbon, printed electronics, holograms, banknotes)



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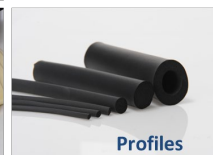
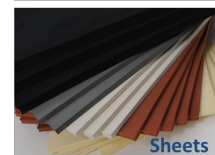
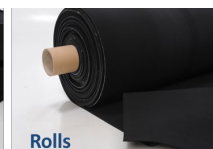
- ④ Developing and manufacturing high tech cellular foams for demanding environments
- ④ Offering more than 50 foams based on 6 rubber elastomers, we are a key partner to answer to most of your problems of sealing, cushioning & cooling of battery packs
- ④ Solutions based on EPDM, CR neoprene, NR natural rubber, SBR styrene, NBR nitrile and EVM expanded elastomers. More can be developed to meet your specific needs thanks to our experienced R&D team.

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

- ④ All global mobility OEMs through our network of converters.

TARGET MARKETS, INDUSTRY ADDRESSED

- ④ EV supply chain from battery packs to charging equipments.





Arnaud VILLERS D'ARBOUET
CEO

www.mecaware.com

BOOTH N° : 9-B20

EXPERTISE, BUSINESS OFFER

- Production of critical metals by recycling end-of-life batteries and production scraps

TARGET MARKETS, INDUSTRY ADRESSED

Energy, end-of-life batteries, production scraps





Margaux JULLIEN
Business developer

<https://www.mihb.fr/>

BOOTH N° : 9-B20

EXPERTISE, BUSINESS OFFER

- MIHB, a specialist in the transformation of thermoplastic materials, is a recognized expert in the design and industrialization of technical parts with high added value, from appearance parts to fluid management and motion transmission systems.
- MIHB supports you from the choice of plastic materials to product design, tooling development and robotic expertise. A transversal approach that also revolves around our Design Office, our DTP department, and our know-how in rheology, metrology, assembly and logistics.
- MIHB masters the following technologies: mono, 2k, 3k, 4k injection, over-molding, extrusion, IMF, IMAMetrology: MIHB is equipped to perform all types of products measurements (3D scanning, QV 3D videos, roughometer...)

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Parts for hydrogen sector, production and automated assembly of 27 components for gearbox motor in home automation sector, cleanliness fuel parts ISO 16232, cars' keys for automotive sector and covers for the paramedical sector.

TARGET MARKETS, INDUSTRY ADRESSED

Future Mobility: Batteries / Hydrogen / Autonomous Cars / Automotive / Other Mobility outside Automotive Sector

Current Mobility: Diesel / Synthetic Gasoline

Divers: Home Automation / Buildings / Paramedical / Agricultural / Leisure



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porcherindustries



Manfred REIF
Automotive sales manager

www.porcher-ind.com

BOOTH N° : 9 - B30

EXPERTISE, BUSINESS OFFER

- Porcher Industries designs and produces innovative materials based on combination of textile fibers and chemistry.
- Porcher Industries develops and manufactures woven and nonwoven insulation systems for the mitigation of thermal runaway in electric vehicle batteries.

TARGET MARKETS, INDUSTRY ADDRESSED

- Specializing in thermoplastic composites for vehicle interiors, airbag fabrics, exhaust insulation, body parts, treated yarns for rubber reinforcement and EV battery thermal insulation, Porcher/BGF is committed to creating and manufacturing the lightest, most durable and eco-friendly materials.





Sébastien ROMAIRE
Digital Group Manager

<https://scantech.com/>

BOOTH N° : 10-E110

EXPERTISE, BUSINESS OFFER

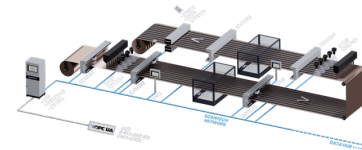
SCANTECH is a technology-driven metrology company specialized in on-line control and measurement systems of flat materials.

SCANTECH sells over 1,000 per year around the world for many types of production lines, including all types of extruded films (e.g. battery separator films), lamination and coatings processes (e.g. electrodes), textile non-woven, paper and metal. SCANTECH scanners offer complete measurement solutions including grammage, thickness, density, humidity, geometries and defect detection.

Founded in 1992, SCANTECH is headquartered in France (where all core components - such as electronic circuit boards and software - are designed), with fully-owned subsidiaries in China (Guangzhou) and Taiwan, South Korea, Germany, USA, Italy, India and Malaysia.

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Project example: Complete measurement solution for anode & cathode coating lines



TARGET MARKETS, INDUSTRY ADDRESSED

Battery (electrode foils, anode & cathode coating & calendering, battery separator films), fuel cells (catalist coated membranes), extrusion (biax/blown/cast/coated films, foams), lamination & converting, textile & non-woven, metal, paper.



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Tenzing TRUILHE
Sales engineer

www.serma-energy.com/en/

BOOTH N° : 9-A57

EXPERTISE, BUSINESS OFFER

- Expertise, consulting, analysis and testing for electronic technologies, embedded systems included e-mobility and information systems
- Services on Batteries:
- 20 000 m2 test platform by 2025 (full validation plan: electrical, mechanical, environmental, abuse and certification tests, failure and root cause analysis). We address cells, modules and packs but also e-motors, power electronics, BMS ...
- SERMA also support his customers on battery development with design, safety, audit, training, teardown and simulations



CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

600 + customers per year, mostly EU



TARGET MARKETS, INDUSTRY ADRESSED

Multi-markets (automotive, e-mobility, military, avionics and space, defense, gigafactories, medical, railways, consumer ...)



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Web converting equipment for fuel cells membrane and electrode materials of Li-Ion battery (coated and non coated aluminum foils for cathode and copper foils for anode):

- Slitter-rewinder | Spooling line | Non-stop winder | Splicing bench
- Expert in tension control and slitting technologies
- In-house engineering and manufacturing
- Well-equipped testing rooms to run trials and process feasibility

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Customer references not available as under NDA
Slitting cells for Gigafactories and Pilot plants

TARGET MARKETS, INDUSTRY ADDRESSED

Battery cell and fuel cell production

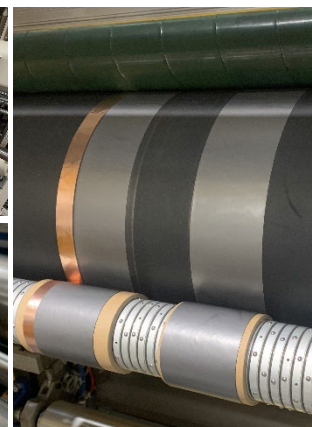
- Gigafactories
- Pilot plants



Cyrille PONTET
General director

www.spoolex.com

BOOTH N° : [6-B64](#)





Stéphane MONY
Commercial director

www.texprotec.com

BOOTHN° : 9-B30

EXPERTISE, BUSINESS OFFER

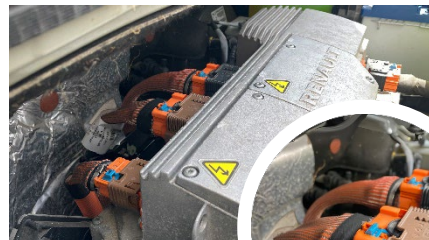
- Designer of cable protection sheaths and flexible connection braids
- The EMIPROTEC® range protects passengers against electromagnetic emissions from High-Voltage vehicles
- EMIPROTEC® shielding solutions protect transmission harnesses to on-board electronics

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

- All EV vehicles for Renault group, Tesla, Lear Corporation, Alstom, Tier One Harnesses producers

TARGET MARKETS, INDUSTRY ADDRESSED

- Automotive, Heavy Truck, Aeronautic, Railways, Industry



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Laure LATOUR
Battery Anode Material,
Business Developer

www.tokaicobex.com

BOOTH N°: 9-B30

EXPERTISE, BUSINESS OFFER

- With over 130 years of expertise in graphite, Tokai COBEX has honed its industrial technology to provide the most superior Artificial Graphite for Anode Active Material with a capacity of 150 kilotons and the lowest CO₂ footprint on the market in Europe and in North America.

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

- Brownfiedl facility with a 50ktpa plant in Vénissieux and in La Léchère next to Lyon and the Alps

TARGET MARKETS, INDUSTRY ADDRESSED

- Battery Anode Material for Electrical Vehicle Battery and Storage





La Région

Auvergne-Rhône-Alpes

———— **ENTREPRISES**

3. Visiting COMPANIES



Jean-Michel BRUN
Sales manager

www.accuwatt-technologies.com/en/

EXPERTISE, BUSINESS OFFER

- Lithium Ion Battery manufacturer since 2004 for military or industrial customers.
- Widerange of capacities and voltages to be proposed beyond existing products.
- Customized products for specific applications.

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

AIRBUS, DEPT OF HOMELAND SECURITY, MILITARY, NAVAL GROUP, IFREMER, EXAIL, THALES, etc.

TARGET MARKETS, INDUSTRY ADDRESSED

- Mostly military and homeland security market targeted but also industry specific battery design.



Proud of our factories



Fen MI QIAN
CEO

www.advantelec.com
www.adv-power-lyon.com

EXPERTISE, BUSINESS OFFER

- ADV-POWER (French brand, created by Advantelec) is able to offer you a complete solution for your project: Study, design, import of batteries and French manufacture of high-density batteries. With a capacity of 15 Mwh/year in a new factory located near Lyon in the Auvergne Rhône-Alpes region, ADV POWER can meet your needs for high-density batteries.

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Ledger, Aereco, Slat, All circuits, Tech Power

Advantelec just created his brand new factory and will produce French high-density batteries very soon.

TARGET MARKETS, INDUSTRY ADDRESSED

- UAV, VAE, Power tools



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Auvergne-Rhône-Alpes

ENTREPRISES

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Explore the World of Precision



Jerome CLERC
Sales & business
development manager

www.amd-decolletage.com

EXPERTISE, BUSINESS OFFER

- Connector contact manufacturer since 1978
- e-Mobility & Electrification solutions for OEMs
- From Design to Manufacturing services
- Member of Groupe Savoy
- Made in the Alps, export 85% worldwide



CUSTOMER REFERENCES, SIGNIFICANT PROJECTS

- Interconnexion & contact manufacturing (CCS1)
- Signal & Power contact, Connection, Sensors, Fastening solution
- Client co-design to manufacturing of high precision mechanical components or sub-functions

Current type	Region			
	Japan	America	Europe	China
AC				
Plug type	2P7E 3P7E/3L	2P7E 3P7E/3L	2P7E 3P7E/3L	2P7E 3P7E/3L
DC				
Plug type	CRAMMO	CCS1	CCS1	SAIT

Références:



TARGET MARKETS, INDUSTRY ADRESSED

Connector, e-Mobility, Charger, Battery, Sensors, fastening, e-Trucks, Hydrogen



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Julien THIEL
CEO

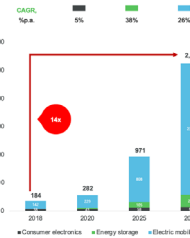
www.easyl.fr

EXPERTISE, BUSINESS OFFER

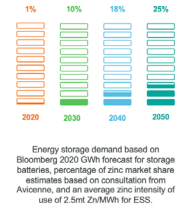
Easylzinc brings a new way of “think green” in the landscape of batteries value chain. We are enabling zinc battery manufacturers to produce cost-effective and sustainable zinc batt with a low environmental impact.

- We Develop new zinc electrode materials and new product formulations for
- rechargeable battery applications
- We carry out the first industrial deployment (industrial demonstrator) of a calcium
- zincate and additives pilot line
- We develop new anode formulas and their production processes
- We plan manufacture prototype batteries with an industrial partner targeting
- commercial products

GLOBAL BATTERY DEMAND BY APPLICATION



ZN MARKET SHARE FORECAST IN ESS*



CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Amaze (Zinc air project with Sintef) – Superzinc (European battery manufacturer)

TARGET MARKETS, INDUSTRY ADRESSED

Energy storage, Little mobility



Proud of our factories



Damien LACOSTE
Business Developer

www.gck-battery.com

EXPERTISE, BUSINESS OFFER

Since 2019, we design, develop and manufacture standard, modular and custom lithium-ion batteries from light solutions with a few Wh to large systems in GWh.

Besides the lithium-ion cells, the batteries and all their components are designed and produced in France by the GCK Battery teams.

By developing our own Battery Management Systems (BMS), we have acquired a crucial know-how to master the whole lithium-ion battery technology.

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Electric bike sharing (JC Decaux, Fifteen), Draisie railway project (SNCF), Buses retrofitting with hydrogen fuel cell (GCK Mobility)

TARGET MARKETS, INDUSTRY ADDRESSED

Light Electric Mobility, Energy Storage, Off-road EV, EV Trucks, Marine, Motorsport, Railway.



Proud of our factories



GEMESIS



Samuel GUESNE
CEO

www.gemesis.eu

EXPERTISE, BUSINESS OFFER

- ⌚ Test Bench for battery cell, Pack battery, Fuel cell, Hydrogen components (Tank, valve, HU, FCCU, turbo ect)
- ⌚ Rapid prototyping for FCCU BMS ECU
- ⌚ HIL test bench
- ⌚ Open sources platform for test benches

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Symbio, FC lab, Universal Hydrogen, Inocel, Safran, Alstom



TARGET MARKETS, INDUSTRY ADDRESSED

- ⌚ We develop turnkey test bench solutions for batteries, hydrogen, and mechatronic components based on our open-source software platform.



La Région

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Arnaud CHABANNE
CEO

www.lagazel.com

EXPERTISE, BUSINESS OFFER

Manufacturing solar quality products in France and Africa
Local manufacturing, after-sales services, end-of-life management

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

UNHCR – PNUD – ESF

USAID (Global LEAP Solar E-Waste Challenge)

FASEP (Waste reduction through the implementation of innovative solutions for the diagnosis, repair and reconditioning of products from the solar industry)

TARGET MARKETS, INDUSTRY ADDRESSED

Access to off-grid energy

Humanitarian aid and international development



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MARCHANTE

YOUR RELIABLE PARTNER FOR BI-ORIENTED FILM STRETCHING LINES

EXPERTISE, BUSINESS OFFER

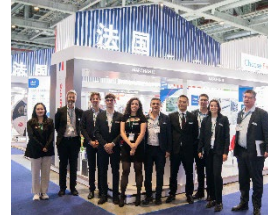
- ④ MARCHANTE is a fast-growing industrial company based in the heart of the Savoie region in Montmélian, France.
- ④ We design turnkey film stretching lines, which our customers transform for various industries of the future: technical packaging (barrier multilayer films, recyclable films), membranes for battery separators (electric vehicles in particular), membranes for electronic components (capacitor films), optical films... More broadly, we design and deliver turnkey extrusion and biaxial stretching lines to our customers worldwide.

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Founded by Mr. Marchante, who has more than 40 years of experience in this industry and more than 250 line start-ups. Our customers are major players in the battery industry, or packaging industry.

TARGET MARKETS, INDUSTRY ADDRESSED

- ④ Biaxially oriented films for the battery, electronics, energy industries. Also R&D for new applications, within our Innovation Centre (Marchante Innovation Centre).
- ④ Press: <https://economiecoeurdesavoie.wordpress.com/2023/01/30/marchante-une-entreprise-familiale-en-forte-progression/>



Caroline MARCHATE
Marketing Director

www.Marchante.fr

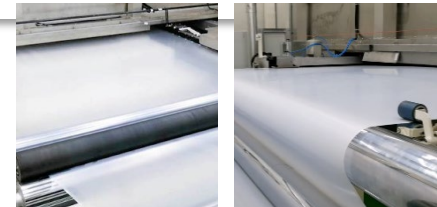


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Greg COUSIN
Marketing & Business
Development Director

www.nichefusedalumina.com

EXPERTISE, BUSINESS OFFER

- High performance White Fused Alumina
Materials with high purity and tight specifications

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Supplier to the major Abrasives, Laminate Flooring and Filtration
Ceramics producers worldwide

TARGET MARKETS, INDUSTRY ADDRESSED

Development of the new THERMAL-WFA product
range of thermally conductive fillers used to dissipate
heat around the Li-ion Battery in electric vehicles (EVs)



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EXPERTISE, BUSINESS OFFER

- Silicon processes fabrication
- R&D in advanced Si-based materials
- Innovation in material for energy from patent to pilot validation

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

- Anode Graphite producers (discussions)
- Batteries gigafactories (discussions)

TARGET MARKETS, INDUSTRY ADDRESSED

- High performances advanced anode materials
- Electronics equipments, EV, ESS



Jed KRAIEM
Chief Operations Officer

info@novacium.com
www.novacium.com



Our product : High performance silicon-containing anode material



High performances validated on 18650 cells



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Optymha

Le choix écologique



Fabien SIKIRDIJ
CEO

<https://www.optym-ha.fr/>

EXPERTISE, BUSINESS OFFER

- Remanufacturing and Reconditioning exhaust systems, particulate filters and catalytic converters.
- Lead-acid battery regeneration
- Spare parts wholesaler

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Brand dealers : Iveco Bus, Mercedes Benz, Scania

RATP, Transdev, Keolis, Fraikin, Kiloutou, Manitou Group, Groupauto G-truck, Autodistribution

TARGET MARKETS, INDUSTRY ADDRESSED

- Buses & Coaches
- Heavy Duty Vehicles
- Forklift trucks
- Off Road





Boris PLANTIN
Technical Sales

www.pts.fr

EXPERTISE, BUSINESS OFFER

- Sales of equipment, parts and consumables for vacuum deposition, etching, chemical and thermal treatments and associated services
- Clean Concept expertise, consulting and support

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

- 30 years experience in semiconductors, photovoltaic and optical discs

TARGET MARKETS, INDUSTRY ADDRESSED

- Battery R&D and production



UPERGY



Yohann CROIZAT
Marketing & ESG Director

www.upergy.com

EXPERTISE, BUSINESS OFFER

UPERGY is an European designer, manufacturer and distributor in autonomous energy storage solutions. UPERGY has a very diverse customer portfolio: private individuals but above all professionals.

The group business offer includes:

- A complete range of batteries and chargers
- Custom battery pack designed and manufactured by in-house engineers
- A service of refurbishment for batteries

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Gendarmerie Nationale, Pompiers, Desautel, Somfy, RESAH, NHS, Spie, SNCF, EDF, Engie, Veolia, Rexel, Sonepar

TARGET MARKETS, INDUSTRY ADDRESSED

- Medical
- Fire service / Law enforcement
- Security
- Administration /community / Public sector
- Renewable energy
- Audiovisual
- Transport / parking
- Mobility
- Industry / construction
- Leisure
- Electrical equipment





La Région

Auvergne-Rhône-Alpes

———— **ENTREPRISES**

4. Business SUPPORT ORGANISATIONS AND PARTNERS



Ingrid MILCENT
International business
development

www.tenerrdis.fr/en/

EXPERTISE, BUSINESS OFFER

- French energy cluster based in Auvergne Rhône Alpes, France
- Your gateway into a dynamic innovation ecosystem of 270 members

CUSTOMER REFERENCES, SIGNIFICATIVE PROJECTS

Tenerrdis is a partner in 3 European projects addressing Batteries:

- RESiLEX** (Resilient Enhancement for the Silicon Industry Leveraging the European Matrix) is a Horizon Europe project aiming to improve the resilience and sustainability of the entire Silicon value chain in the EU. During 4 years, the project consortium which gathers 21 partners from 8 different countries will demonstrate 8 new technologies around Critical Raw Materials, Solar PV & Batteries.
- École de la Batterie** : A project dedicated to professionals in the battery sector that aims to develop new training programmes for all qualification levels, from technical training certificates to PhDs. Over 70 new or adapted initial training programmes will be offered to high school and engineering school students, undergraduates and postgraduates. Objective : meet the labour needs of the growing French battery industry in the years to come.
- SOLVE** : Solve is a Horizon Europe project that aims to overcome the obstacles to the large-scale deployment of Gen 3 Li-ion batteries (solid state batteries) for mobility applications. The project, which lasts 48 months and is supported by a consortium of 16 stakeholders.

TARGET MARKETS, INDUSTRY ADDRESSED

Renewable energy production, Energy conversion and storage, hydrogen, Energy distribution, flexibility, efficiency, Sufficiency and access to resources



PASSEPORT BUSINESS 4 MOTORS FOR EUROPE

WWW.4MOTORS.EU

A « passport » for SMEs which gives free access to **5 types of services** in the 4 partner Regions, via their respective **economic agencies for economic development, innovation and/or internalization.**



4 agencies ready to connect you with their regional ecosystem





EXPERTISE, BUSINESS OFFER

- TotalEnergies is an integrated, global, multi-energy production and supply company: oil and biofuels, natural gas and green gas, renewables and electricity. Present in some 120 countries, TotalEnergies places sustainable development at the heart of its strategy, projects and operations.
- Active in more than 120 countries, our ambition is to be a major player in the energy transition and to get to net zero by 2050.
- Saft, a wholly owned subsidiary of TotalEnergies, specializes in advanced technology battery solutions for industry, from the design and development to the production, customization and service provision. For more than 100 years, Saft's longer-lasting batteries and systems have provided critical safety applications, back-up power and propulsion for our customers. Present in 19 countries, 17 industrial sites and 31 sales offices, it has 4,300 employees, turnover of \$1.2 billion and 3,000 customers. Business segments : Aerospace, Defense, performance, Connected Smart Energy (CSE), Energy Storage Systems (ESS), Industry, Mobility & Infrastructures.

SUPPORT TO FRENCH COMPANIES

- TotalEnergies supports French small and medium-sized businesses (SME) through Financial Supports and Export support. Our goals are to promote job creation and access to skills and expertise by supporting projects to start, expand or acquire businesses.
- Export supports such as:
 - Collective prospection missions : In 2023, more than 100 French SME in their international development in 20 countries covering the themes of wind energy (Denmark, Spain, United Kingdom), solar energy (Germany, Emirates, Norway), energy transition (South Africa, Cameroon, Ivory Coast, Senegal), hydrogen (Morocco), sustainable cities (Spain), oil & gas (Emirates, Singapore), decarbonization of maritime transport (Italy, Norway, Singapore) in the following sectors: Energy, Industrial Equipment, Engineering, Research and Consulting.
 - Hosting V.I.E / IVB. (Volontariat International en Entreprise / International Internship in a Company) or employees within an affiliate of TotalEnergies abroad on behalf of the French SME : more than 100 hosting capacities within at least 50 countries.
 - Export loan and Personalized support.



Alexandre MARTIN-DENAVIT
International Development Director

<https://direction-france.totalenergies.fr>

Enterprise Europe Network



#EENCanHelp

THE WORLD'S LARGEST SUPPORT NETWORK FOR SMALL AND MEDIUM-SIZED ENTERPRISES (SMES) WITH INTERNATIONAL AMBITIONS.



Sustainability

We guide companies in their transition to more sustainable business models



EU Single market

We help businesses navigate EU legislations, policies and benefit from the opportunities offered by the Single Market



Digitalisation

We help SMEs tailor digital solutions to their business needs



Internationalisation

We support businesses to enter international markets and to seize new commercial opportunities



Access to finance

We help you identify sources of finance and ensure your business is investor ready



Access to EU funding programmes

We identify EU funding opportunities that suit your business' needs and help you apply



Innovation

We enhance businesses' potential to innovate, grow and develop disruptive products



Business, Technology and R&D Partnering

We match companies with the right business partners and to promote new technologies globally



Resilience

We empower SMEs by building up their business agility and resilience to future challenges

Your advisors in Auvergne Rhône-Alpes:



<https://een.ec.europa.eu/>

The Economic Development Agency of the Auvergne-Rhône-Alpes works to support business in the region. Financed primarily by the regional government, the agency is a non-profit organization with 11 sites and 160 employees present throughout the region. We assist regional businesses at every step of their development : investment, training, recruitment, export, innovation, expansion, relocation, and financing. We also promote foreign direct investment in the region through our Invest brand.

<https://www.auvergnerhonealpes-entreprises.fr/en>

Auvergne-Rhône-Alpes Entreprises boost company growth in Auvergne-Rhône-Alpes, France.
We provide fast, clear and efficient services that are tailor-made for each business.

OUR MISSIONS:

- Promoting Auvergne-Rhône-Alpes, the #1 industrial region in France
- Helping companies invest in Auvergne-Rhône-Alpes: technical, financial and legal support, local connections, etc.
- Making companies' international and innovation initiatives a success with programs such as regional booths at trade shows and dedicated industry conventions.
- Fostering international growth (foreign subsidiaries, external acquisitions).
- Contributing to the development of our competitiveness clusters (Minalogic, Axelera, CARA, Polymeris, Tenerrdis, etc.).



**Economic
Development**



Innovation



International



Europe



**Human
Resources /
Training**



**Economic &
Territorial
Intelligence**



INVEST IN
Auvergne-Rhône-Alpes



La Région

Auvergne-Rhône-Alpes

— **ENTREPRISES**



La Région

Auvergne-Rhône-Alpes

Let's keep in touch !

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<https://auvergnerhonealpes-entreprises.fr/investinauvergnerhonealpes>

ADHÉRER À L'AGENCE

