

A leading industrial region in the European

BATTERY SECTOR



A broad technological and industrial base with the presence of world leaders and experts

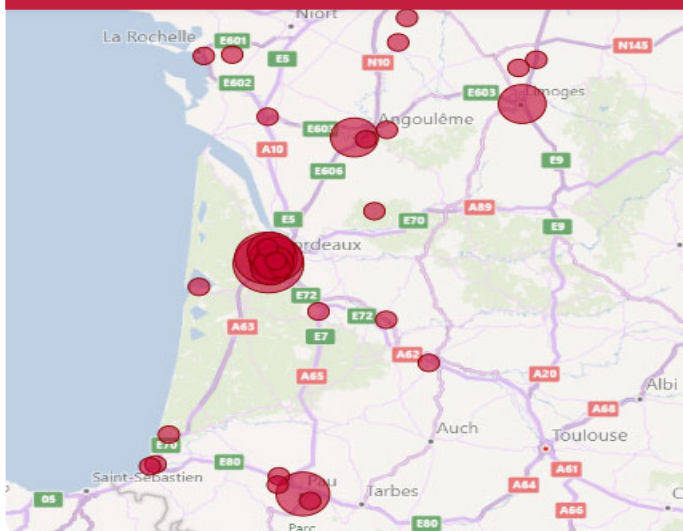
- The Nouvelle-Aquitaine region is home to most of French **battery manufacturers**.
- **Many segments of the value chain** are present: R&D, Raw materials, Components, Design and manufacturing of cells and packs, BMS, Recycling, Certifications and tests...
- A highly dynamic **chemistry and advanced materials sector** with world leaders in ceramics, polymers and nanomaterials.

Nouvelle-Aquitaine: an attractive, connected region

- **The largest region in France**, recognized for its economic attractiveness and high standard of living
- France's third region in terms of **economic activity**
- **Strategic location**, with 11 airports, 4 commercial ports and the Paris-Bordeaux high-speed line (2-hour trip)
- **Competitive set-up costs**, on average 20 to 30% lower for salaries and real estate, compared to the Paris region

Who are they?

Flash this code to access the geographical database

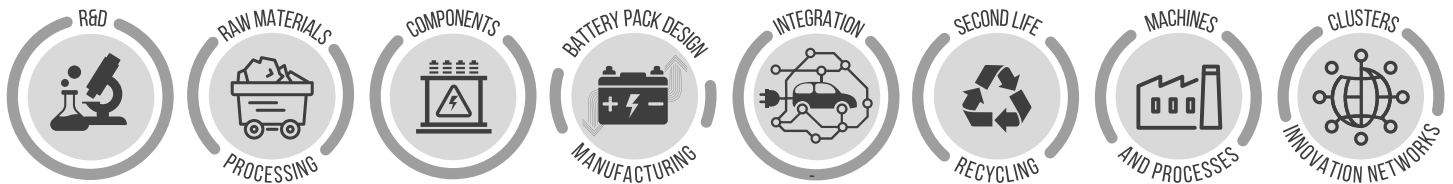


Extensive expertise in research and development

- University laboratories & Research and Technology Organisations specializing in **materials** (polymers, electrolytes, all solids), **battery safety, chemistry and electrochemistry**.
- **World-class private** research and development centres: Saft, ACC, Solvay, Orano.
- Innovative developments in **materials, recycling, ore resources...**



BATTERY ECOSYSTEM in Nouvelle-Aquitaine



RESEARCH LABORATORIES

R3 TESNA (BSE, ICMCB, IRCER, I2M, IC2MP, IMS, ISM, INSTITUT PPRIME, IPREM, IRCER, LCPO, LIAS, SIAME, EIGSI)

RESEARCH AND TECHNOLOGY ORGANISATIONS

ALPHANOV, CEA TECH, CANOE, CAPTRONIC, COMPOSITADOUR, CITRA, CTTC, PLACAMAT, RESCOLL, TECNALIA

MINING

ARVERNE, PÔLE AVENIA

PROCESSING

ARKEMA, SOLVAY, CERAQUITAINE

ARKEMA, SOLVAY, STARPLAST, FREUDENBERG SEALING TECHNOLOGIES

CELLS OR MODULES

ACC, SAFT

PACKS

FORSEE POWER, EASYLI, STARTEC ENERGY, EXOES, E-MERSIV, ARTS ENERGY, GOUACH, SACRED SUN

BMS

SERMA TECHNOLOGIES, BMS POWERSAFE, NEXEYA, NALDEO, CEA TECH, SWITCHES, EXOES, DEEPCONCEPT, AECE GROUP

MOBILITY

ALSTOM, HEULIEZ BUS, BACQUEYRISSES, FOUNTAINE PAJOT, BLUENAV, VUF BIKES, MAA BIKES

GRID SERVICES

EDF, ENGIE, VALOREM, AMARENCO, NW JOULES, SOREGIES, COMAX, RTE, ENEDIS, TENAQ

ISOLATED SITES

FONROCHE, SUNNA DESIGN, BENOÛ, HENSOLDT NEXEYA

VOLTÉO, REBATTERY, ORANO, GOUACH

TESTS / CERTIFICATIONS

SERMA ENERGY, EMITECH, SGS

DIGITAL SOLUTIONS

GDTECH, AGILEO

FIRE SAFETY

SDIS86, AI GROUP

CLUSTER ENERGIES ET STOCKAGE, S2E2, ID4MOBILITY, AEROSPACE VALLEY, FERROCAMPUS, ATLANTIC CLUSTER, ACD

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Integrating markets and development opportunities

These integrator markets have a strong regional presence:

- **Mobility:** heavy mobility (buses), aeronautics, maritime/sailing, rail, light mobility.
- **Stationary storage** (networks, buildings, industrial or off grid sites).

Our services

Our network of experts guides you during project implementation, from preliminary studies to realization: providing market information, seeking and presenting commercial real estate, networking with key partners, mobilization of financing.



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Technological and human resources

- **Complementary competitiveness clusters** like ID4Mobility (European mobility cluster), S2E2 (energy management cluster), Pôle Avenia (competitiveness hub for the subsurface industries), Aerospace Valley (European competitiveness cluster in aerospace), Ferrocampus (European centre of excellence for the rail industry), ...
- **BATTENA:** to meet the challenges of developing the sector, the Nouvelle-Aquitaine region is developing **specific training courses** with and for industry players in Nouvelle Aquitaine.
Target: over 35,000 people trained by 2028.
- **Higher education courses** in materials, electronics, systems and energy (engineering schools, universities).

Strong regional commitment

- Support for research and development in the battery sector
 - Support for pre-industrialisation (innovative industrial pilot lines)
 - Support for the development of battery recycling (circular economy)
- ➔ **More than €60M invested by the Region and Europe**

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