



MERSEN – ENTITY PROFILE FOR HORIZON EUROPE CL5 2026

OVERVIEW OF INNOVATION AND CONTRIBUTIONS TO EUROPEAN RESEARCH





OPPORTUNITY 1: ADVANCED COMPONENTS & SAFETY SOLUTIONS FOR NEXT-GEN LITHIUM BATTERIES

TOPIC: NEXT-GENERATION LITHIUM-BASED BATTERIES FOR MOBILITY AND STATIONARY STORAGE (BATT4EU)

Specific Contribution:

- Provide advanced components and safety technologies for high-performance battery systems
- Develop pilot projects, demonstrators, and co-development of advanced battery architectures

Technology Profile:

- Laminated busbars, flexible interconnections
- Film and electrolytic capacitors
- High-speed DC fuses, cell-level safety devices
- Thermal management (air/liquid)
- Smart current breakers, fire-resistant materials

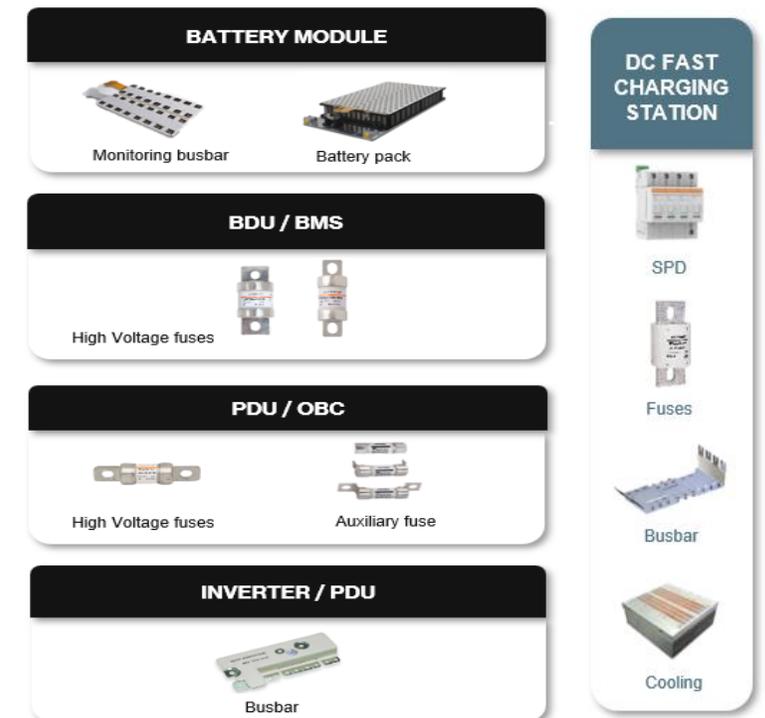
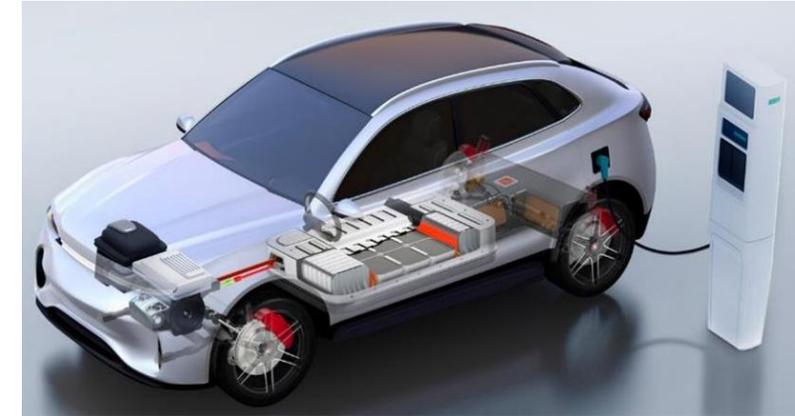
Experience:

- Expertise in battery components and safety
- Participation in industry collaborations and R&D consortia
- Strong track record in safety and thermal management solutions

Relevant Horizon Europe Topics:

- HORIZON-CL5-2026-10-D2-03

Call: Cross-sectoral solutions for the climate transition





OPPORTUNITY 2: ADVANCED BUSBARS, PROTECTION DEVICES & THERMAL SOLUTIONS FOR HVDC

TOPIC: RELIABLE AND HIGH-PERFORMANCE HVDC CONVERTERS AND POWER ELECTRONICS FOR RENEWABLE ENERGY INTEGRATION

Specific Contribution:

- Provide engineered busbars, protection devices, and thermal solutions
- Support demonstrators of multi-terminal or meshed HVDC systems
- Co-design converter subassemblies and optimize reliability & thermal management

Technology Profile:

- Engineered busbars for HVDC converters
- High-power fuses and protection devices
- Thermal management systems
- Custom subassemblies for MV/HV power conversion

Experience:

- Global leader in materials/components for high-reliability power electronics
- Proven support for HVDC infrastructure and renewable energy projects
- Collaboration with industrial and academic partners

Relevant Horizon Europe Topics:

- HORIZON-CL5-2026-03-D3-01
- HORIZON-CL5-2026-03-D3-20
- HORIZON-CL5-2027-07-D3-28

Call: Sustainable, secure and competitive energy supply





OPPORTUNITY 3: POWER DISTRIBUTION & THERMAL SOLUTIONS FOR ELECTRIC MOBILITY

TOPIC: ADVANCED POWER DISTRIBUTION AND THERMAL SOLUTIONS FOR EV/HEV AND HEAVY-DUTY BATTERY ELECTRIC VEHICLES

Specific Contribution:

- Provide laminated busbars, fuses, capacitors, and cooling systems for high-power-density converters
- Support demonstrators for heavy-duty BEVs and marine/aeronautical electrification
- Enable efficient energy conversion and advanced e-mobility architectures

Technology Profile:

- Laminated busbars & interconnections for inverters, OBCs, battery packs
- High-speed fuses for EV powertrains
- DC-link stabilization capacitors
- Air and liquid cooling systems

Experience:

- Expertise in mobility applications and power electronics
- Track record with OEMs, Tier-1 suppliers, and research institutions
- Participation in pilot projects and large-scale demonstration programs

Relevant Horizon Europe Topics:

- HORIZON-CL5-2026-05-D5-01
- HORIZON-CL5-2027-03-D5-05
- HORIZON-CL5-2026-06-Two-Stage-D5-10
- HORIZON-CL5-2027-03-D5-18

Call: Clean and competitive solutions for all transport modes



Electric vehicles

bus bars for batteries



EV dedicated fuse range (400-800V)



TYPE OF PARTICIPATION & COMPLIANCE



- ✓ **PARTNER OFFERING EXPERTISE AND LOOKING FOR A CONSORTIUM**
- ✓ **THIS PRESENTATION CONSOLIDATES MERSEN'S THREE STRATEGIC OPPORTUNITIES, IN FULL COMPLIANCE WITH GREENET'S REQUIREMENT OF ONE PRESENTATION PER ENTITY.**



- **Name: Abdelilah Goulmane**
- **Position: R&D Engineer**
- **Organization: Mersen (Multinational)**
- **Country: France**
- **Email: abdelilah.goulmane@mersen.com**
- **Website: <https://www.mersen.com>**