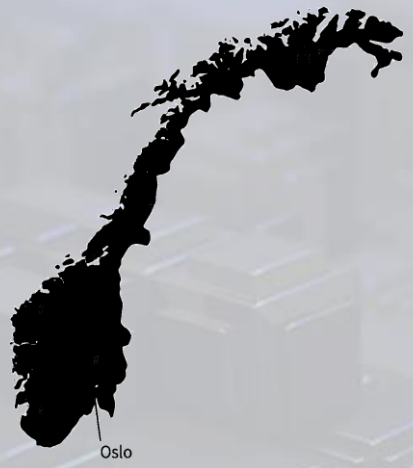
SHIFT MATERIALS

Cathode Active Materials for European Market

SHIFT MATERIALS AS

Azadeh Motealleh

CTO and co-founder



Successful R & I in Europe 2025, 7th March, Düsseldorf

Shift Materials at a glance

Who we are

- A start-up based in Oslo, Norway, focused on advanced battery materials.
- A team of 4 experts working on technical innovations.

Our mission

- Developing cost-efficient and sustainable Lithium Phosphate CAMs (LFP and next generation LMFP) for European battery manufacturers.

Key achievements

- Successfully produced our first materials, achieving TRL 3/4.
- Plans to test materials with potential customers within this year.

Financial position

- Financially secured for the next 3 years.
- Actively seeking external capital to accelerate growth and scale operations.

Skilled team with startup experience

Dr. Rune Wendelbo
Working chair & Interim CEO

- Possesses an impressive track record in the chemicals industry with exit of startup Abalonyx in 2021 to Aker Capital
- Experience in the battery industry, co-founder of Graphene Batteries AS
- Expertise in nanomaterials and chemical processes; Inventor and co-inventor of around 30 patents.

Dr. Azadeh Motealleh
CTO & Co-founder

- Specialized R&D experience in materials science and engineering; Expertise in nanomaterials, ceramics, metal alloys and additive manufacturing

Dr. Maryam Modares
CSO & Co-founder

- Highly experienced chemist specializing in materials synthesis; R&D experience in different areas, nanomaterials, catalysts, green chemistry, formulation.

TBD
CEO/Business Developer

- Background in business and commercial strategy. With extensive experience in the energy sector to lead our efforts in scaling innovation and building strategic partnerships.

Advisors

Prof. Anja Olafsen Sjåstad
Scientific Advisor

Knut Evensen
Financial Advisor

Svein Olerud
Industrialisation Advisor

Our current Horizon Europe projects

BeyondBattRec
2025-2028
12 partners

Beyond state-of-the-art battery recycling by increasing the selectivity and specificity of efficient pre-processing technologies

CIRCUBATT
2025-2027
10 partners

Circular economy innovations for resilient, competitive and sustainable battery technologies

WP Partner and Leader

- Provide LFP CAM for benchmarking and performance assessments.
- Collaborating on recycling strategies and integration of recycled materials into CAM production.
- Lifecycle and cost assessments to validate environmental and economic sustainability.
- Contribute to implementation of AI-based Battery-as-a-Service (BaaS) under real-world conditions.

Logo:	Short Name:	Country:
UNIVERSITY of GREENWICH	UoG	UK
Universität Münster	MEET	DE
University of Essex	UESSEX	UK
KEMIJSKI INŠTITUT	NIC	SI
VIRTUSENERGY	VE	UK
SHIFT MATERIALS	SHIFT	NO
EFESTO	EST	FR
ISL	ISL	AT
Euro Funding	E-F	ES
Batronics	BATT	CH

2025 calls & presentation details

We plan to participate in the following 2025 Batt4EU calls:

HORIZON-CL5-2025-02-D2-03 (IA- Deadline 16 Sep 2025)	Sustainable processing and refining of raw materials to produce battery grade Li-ion battery materials
HORIZON-CL5-2025-04-D2-01 (IA- Deadline 13 Jan 2026)	Development of sustainable and design-to-cost batteries with (energy-) efficient manufacturing processes and based on advanced and safer materials
HORIZON-CL5-2025-04-D2-04 (RIA- Deadline 13 Jan 2026)	Integrating advanced material, cell design and manufacturing development for high-performance batteries aimed at mobility
HORIZON-CL5-2025-04-D2-05 (IA- Deadline 13 Jan 2026)	Accelerated multi-physical and virtual testing for battery aging, reliability, and safety evaluation

Our contribution to the consortium

- Supplying locally produced, customized LFP & LMFP cathode materials, from fresh and recycled sources for a sustainable supply chain.
- Developing cost-efficient and sustainable production methods.
- Supporting material validation, performance assessments, and sustainability evaluations.
- Strengthening the EU battery supply chain with reliable, local CAM production.

Seeking project partners

- Battery manufacturers & gigafactories for material validation & cell integration.
- Research institutions focused on sustainable battery materials.
- Companies specializing in battery materials recycling and circular economy.
- Testing labs for battery safety, aging, and performance validation.

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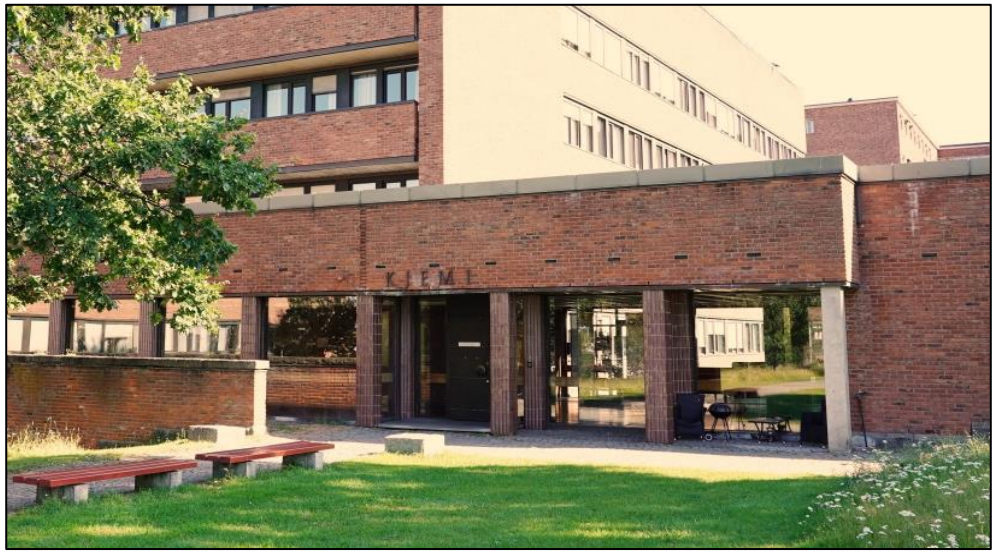
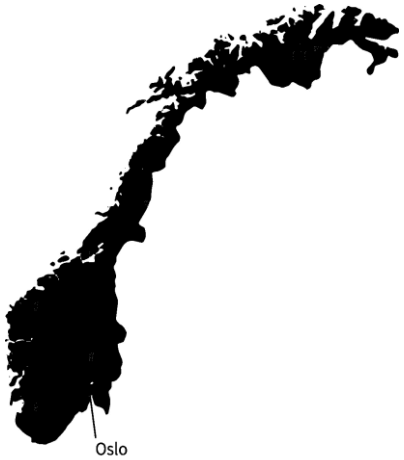


R&D-labs: Department of Chemistry
University of Oslo

Thank You!



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