

Battery research and development nouakchott

2ND LIFE. Value of second life batteries in the future energy system develops knowledge to identify and quantify opportunities and barriers for establishing new energy storage solutions for the European market based on re-use of electric vehicle (EV) batteries, so called second life batteries with emphasis on testing, lifetime modelling, and circularity of 2nd life battery value chains.

Agder Batteriiinvestigates an innovation ecosystem designed for accelerating business growth and research in the Norwegian battery sector. This project involves public and private actors, UiA, business innovation clusters, and start-ups dedicated to establishing coordinated development of battery value chains. (SKF NO, 2020-2023)

RFF Agder will strengthen the region's research and innovation capacity by mobilising and providing grants for research and innovation. The grant scheme is financed by the Ministry of Education and Research and administered by Agder County Council.

The Battery Coast project strengthens and complements the existing battery research at UiA. Main goals of the project are (I) the establishment of a battery engineering education for a diverse battery environment, (II) future-oriented battery research and competence co-creation with local industry partners, and (III) establishment of an active battery community in the south of Norway. A specific focus is the implementation of top teaching and research capabilities in the areas of electrochemistry and cell design optimization at the University of Agder including:

Elkem is one of the world's leading providers of advanced material solutions shaping a better and more sustainable future. The company develops silicones, silicon products and carbon solutions by combining natural raw materials, renewable energy and human ingenuity.

The foundation's purpose is to contribute to increased competence and innovation ability in Aust-Agder and to securing and establishing jobs and good living conditions, and contribute to strengthening and further developing the University of Agder.

The Battery Coast team will participate in the FME BATTERY led by IFE and NTNU, starting at 2025. The national battery focused research center will strengthen and complements the existing battery research at UiA and lays the foundation for a Norwegian battery expertise.

UiA is asked to contribute with our expertise in battery demanufacturing, life-cycle assessment, circular battery value chains and the experience in modelling and digitalization of development and production procedures. UiA's Battery Coast team will be leading the digitalization work package which will

support the establishment of a sustainable battery industry computationally and by means of advanced data analytics:

NABLA(Norwegian Advanced Battery Laboratory) establishes dedicated laboratories for battery research at the state-of-the-art level and beyond to support Norwegian industry and research organizations as well as attract international research to Norway. (RCN NO, 2022-2025)

RHINOCEROS(Batteries reuse and direct production of high performances cathodic and anodic materials and other raw materials from batteries recycling using low cost and environmentally friendly technologies) will develop, improve and demonstrate, in industrially relevant environments, economically and environmentally viable routes for re-using, and recycling EV and stationary batteries. (Horizon Europe, 2022-2026)

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