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Fraunhofer IST becomes a member of the Fraunhofer Battery Alliance

The Fraunhofer Battery Alliance bundles the expertise of the Fraunhofer-Gesellschaft in the field of electrochemical energy storage devices. Only recently, the Fraunhofer Institute for Surface Engineering and Thin Films IST, represented by the engineers Sabrina Zellmer and Stefan Blume, has also been a member.

The more than 20 members of the Fraunhofer Battery Alliance direct their focus primarily on the development of suitable technical and conceptual solutions in the field of electrochemical energy storage devices, thereby taking particular account of the social, economic and ecological consequences, and transferring them into practical application. Both primary and secondary (rechargeable) systems thereby play a role: from the smallest applications, such as button cells, through to large stationary systems, such as redox flow batteries. The aim of the Alliance is to develop and further expand research in the field of electrochemical energy storage devices into a central business area. The competencies of the Fraunhofer Battery Alliance include the topics of materials, cell production, systems, simulation, and testing.

Together with the Fraunhofer IKTS and the Fraunhofer IFAM, the Fraunhofer IST operates the Fraunhofer Project Center for Energy Storage and Management Systems ZEISS in Braunschweig, which addresses the production of innovative mobile and stationary energy storage systems and develops these to industrial maturity. One focus thereby is placed upon the manufacture of novel solid-state batteries, the so-called all-solid-state batteries (ASSB). The activities encompass the entire life cycle of battery systems - from raw materials through to battery recycling.



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Electrodes for the production of battery cells. © Fraunhofer IST, Falko Oldenburg

The **Fraunhofer Institute for Surface Engineering and Thin Films IST** is an innovative partner for research and development in surface technology, with expertise in the associated product and production systems. The aim is to develop customized and sustainable solutions: from prototypes, through economic production scenarios, to upscaling to industrial magnitudes – and all this whilst maintaining closed material and substance cycles. The Fraunhofer IST is one of the seventy-two institutes of the Fraunhofer Society, Europe's leading research organization, and with its about 120 employees has an operating budget of 12 million euros.