

The ENEA objectives within IPCEI Battery

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The European Commission has officially approved the second Important Project of Common European Interest (IPCEI) dedicated to the sector of innovative batteries. The project involves 12 Member States and provides for an injection of up to € 2.9 billion of state aid to support 46 projects designed by 42 companies, which in turn will generate three times as much, € 9 billion, in private investment. The project called European Battery Innovation (EuBatIn) aims to ensure a competitive advantage of European innovation on batteries, thus laying the foundations for a localization of the entire battery value chain within the EU. Even if ENEA will not develop the first industrial development phase, it will actively participate in the activities. The primary purpose of ENEA within the IPCEI is to develop electrochemically active materials, characterized by greater capacity and efficiency. The activity is not only aimed at creating lighter and more durable batteries, but also at finding solutions that are safe for users and the environment and fundamentally cheaper than current storage technologies. In addition, the Advanced Battery Laboratory (AB-Lab) will be built to assist the industry during the first industrial implementation. The AB-Lab is conceived as a flexible and multipurpose platform where it is possible to carry out the entire production process for the construction of new-concept batteries, the optimized management of the end of life, and innovative recycling. The AB-Lab will be designed to handle an extremely varied amount of materials, from traditional electrodes to lithium metal, providing a platform of integrated technologies that enable cycle closure along the entire battery value chain.