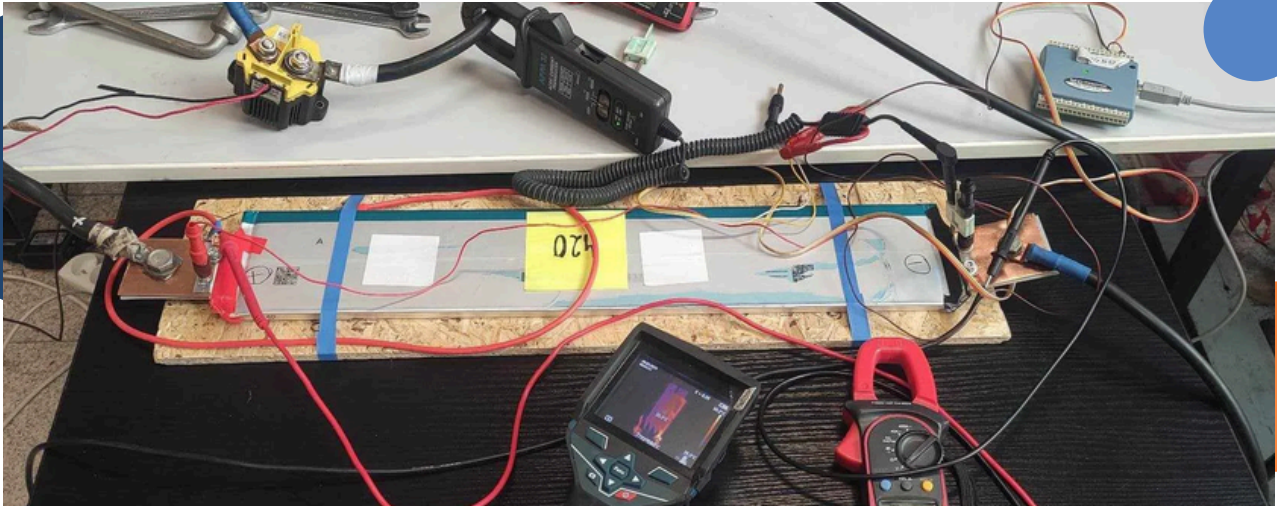
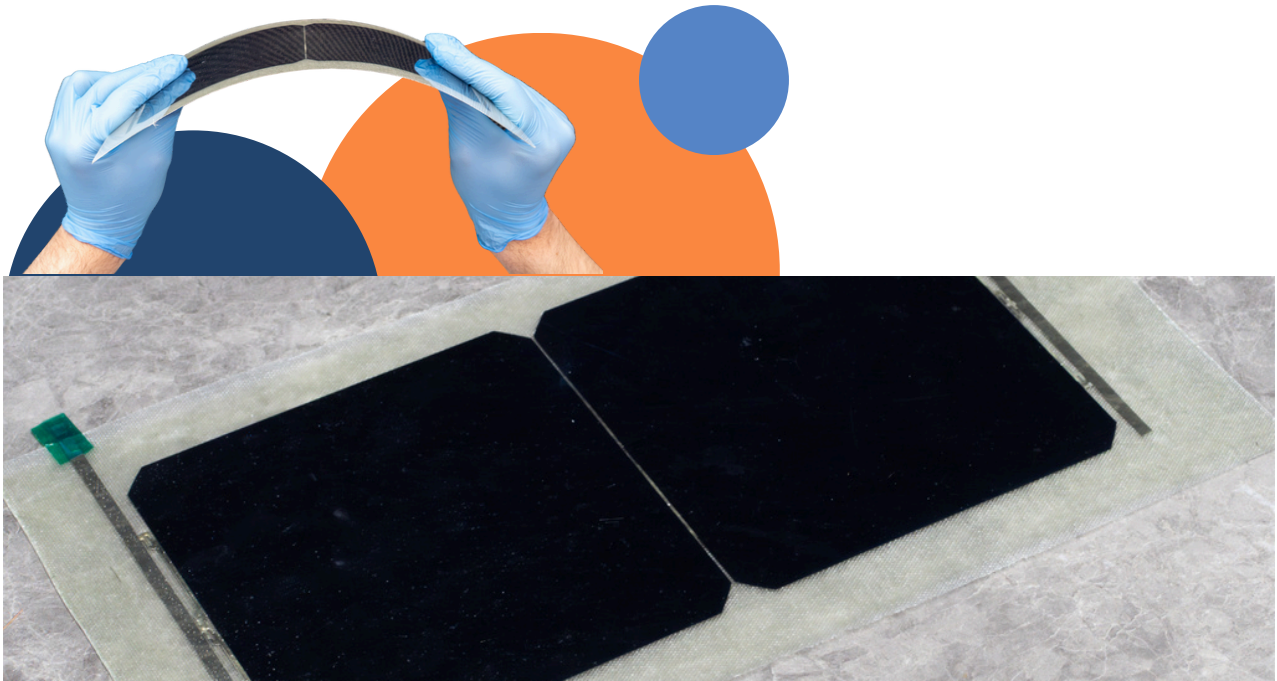


Selection of cells and analysis of the energy storage system for a solar car



A scientific article published in the Polityka Energetyczna – Energy Policy Journal, which describes **research on lithium-ion cells conducted by members of AGH Eko-Energia**. It includes a numerical comparison of battery parameters for various types of cells available on the market, as well as discharge tests of individual cells to experimentally determine their actual capacity and characteristics. This research contributed to the development of the PERŁA project, and based on its results, the best cells were selected for the battery of the designed vehicle. [Link to the article](#)

Development of low-cost, light weight c-Si photovoltaic modules with potential for applications in VIPV



A scientific article published in the prestigious journal Solar Energy Materials and Solar Cells presents **research on an innovative method for producing lightweight and low-cost photovoltaic modules from crystalline silicon**. The developed technology, based on encapsulating PV cells in a fiberglass composite, enables a significant reduction in panel weight while maintaining flexibility and mechanical durability. The authors describe the technological process of the test modules, the results of material studies, and preliminary performance tests, which confirm the potential of this method for practical application. This research was carried out with the aim of integrating PV cells into the body of the PERŁA solar car, further highlighting its application significance and implementation prospects in the VIPV (vehicle-integrated photovoltaics) sector. [Link to the article](#)