

Cyprus battery testing

Horizon Europe is the European Union (EU) funding programme for the period 2021 – 2027, which targets the sectors of research and innovation. The programme's budget is around EUR 95.5 billion, of which EUR 5.4 billion is from NextGenerationEU to stimulate recovery and strengthen the EU's resilience in the future, and EUR 4.5 billion is additional aid.

Digitalisation of battery testing will lead to an acceleration of the battery development time, a higher quality of the battery assessment (better evaluation of battery performances, lifetime, reliability and safety), and an improvement of the battery design itself (by better adapting the design to the application requirements and production capabilities) and a better estimation lifetime (by better modelling of battery ageing). Projects are expected to provide novel methods and tools to accelerate and improve the battery testing process.

One distinguishing characteristic of the ARES group is its excellent testing, infrastructure and demonstration facilities that are spread across the established laboratories of the group. Within this framework, ARES group currently centres its foci around the following:

All established laboratories of the ARES group have access to solar radiation and meteorological measurement stations to enhance the testing capabilities. In the case of PROTEAS, the facility is equipped with a state-of-the-art Baseline Surface Radiation Network (BSRN) station. (contact Kypros Milidonis)

The current participation of the ARES group in relevant European research projects (e.g. SFERA III, and StoRIES, as well as in previous projects (e.g. INSHIP, NESTER, STS-MED and SMART-GEMS) enables transnational access to the group's infrastructures, making it particularly easy for groups outside CyI and outside Cyprus to collaborate in research with CyI. Apart from Academic research, the infrastructures are also available to relevant local and global industries for testing.



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