

Dear ...

Accelerating particles will always require a substantial amount of energy. To sustain the broad portfolio of accelerator applications into the green and energy-minimal 21st century, we need to innovate our accelerating systems. Together we enable this by developing, prototyping and validating the essential energy-saving and energy-recovery technologies to be integrated into the design of a novel sustainable cryomodule with a wide range of applications.

Based on the recently developed Accelerator R&D Roadmap for particle physics, a consortium of leading European institutions is being gathered to respond to a Horizon Europe call on sustainability and technology. The call was recently opened. It comes with a deadline of March 9 and an earmarked EU budget of 5M EUR per application. In the context of an “Innovate for Sustainable Accelerating Systems (iSAS)” project, we have identified three main Technology Areas: high-efficient RF power generation, high-performant SRF cavities and energy recovery aspects of SRF cavities. Each Technology Area coherently feeds into the design of a new cryomodule, i.e. a key deliverable of the project.

In order to strengthen the consortium and further shape the scope of the application, we would be delighted to discuss this topic with you.

Attached, you will find few slides that give the initial context of the project.

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