



Contribution ID: 1029

Type: Invited talk

Aspects of Sustainability of Accelerator Driven Light Sources

Friday 30 August 2024 14:00 (20 minutes)

In this talk I will present several initiatives taken by European synchrotron sources towards a more sustainable operation in line with the recommendations of ESFRI report on energy and supply challenges of research infrastructures.

Examples will cover the optimization and reduction in electric power consumption. I will in particular discuss the use of permanent magnets in storage rings as well as the use of photovoltaic panels to reduce the dependence on external suppliers.

I will also describe efforts towards a more sustainable use of water and cryogenic fluids.

More generally, some figures will be given regarding the carbon footprint of research infrastructures.

A quantitative discussion of the gains that can be achieved following best practices will be given.

I plan to submit also conference proceedings

No

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Session Classification: Mikrosymposium 14/1: Miscellaneous Topics

Track Classification: 14. Miscellaneous