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Sustainable computing with RF2.0 at DESY

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Sustainability is becoming an ever-increasing part in the planning, designing and operation of large-scale infrastructures. Due to the international nature of the collaborators, these large-scale infrastructures end up being both joint-ventures building large machines, and the pooling of smaller resources to provide services for these machines. Research Facility 2.0 is an EU-funded project with a vision of developing a more sustainable path for the future of research. Its remit covers both of these areas by researching: the design and use of technologies for use at future accelerators; and the approaches we can take to manage energy at support infrastructures. Both have unique challenges in terms of environmental impact, but with the latter being of more relevance to the WLCG. DESY is the only institution on this project looking to develop strategies for the energy management of “green” data-centres. This talk shall show the results of some initial investigations in implementing energy management strategies at the DESY computing centre.

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