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Energy management at GSI and FAIR, strategy on energy management, efficiency, sustainability strategy

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GSI Helmholtzzentrum für Schwerionenforschung GmbH operates a unique large-scale accelerator for heavy ions. In the coming years the new international accelerator facility FAIR, one of the largest research projects worldwide, will be built at GSI. In the final extension FAIR consists of several heavy ion accelerator rings, experiment storage rings with up to 1,100 meters in circumference, two linear accelerators and about 3.5 kilometers high energy beam transfer lines as well as several experiment caves.

In the context of rising energy prices and the responsible use of resources, GSI has taken the task to develop concepts for efficient use of energy. Actual work includes the introduction of a broad collection and analysis of energy consumption data and the development of the high efficient data center “Green IT Cube” and technologies such as load based cooling of accelerator components.

The final intention of this work is to provide a modern and efficient research facility at reasonable energy costs and sustainable use of energy.

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