



Superconductivity for  
Sustainable Energy Systems  
and Particle Accelerators



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## Different magnet technologies under ecological and sustainability aspects

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Particle accelerators offer unique opportunities for research in a wide variety of fields. This diversity is also expressed in a wide variety of requirements for the respective technologies of the machines. With a new understanding of the importance of climate change and the resulting necessity for sustainable operation of the machines key technologies have to be evaluated under new aspects. Different magnet technologies are considered and in a first approximation qualitatively compared in manufacturing and operation under the aspect of ecological and sustainable criteria. An iron-dominated dipole serves as a case study for these considerations.

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