

## **DRREAM: Drastically Reduced use of Rare Earths in Applications of Magnetocalorics**

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The aim of DRREAM, an EC-FP7-funded collaborative research project [1], has been to reduce the use of rare earths (REs) in the life cycle of a future magnetic cooling device. We forecast that the most significant reduction in the required volume of RE-containing permanent magnet will come from the use of refrigerants with enhanced magnetocaloric effects and from the improved heat transfer properties of optimally-produced regenerator parts. Efforts in these directions, and in the minimisation of wastage in the production of regenerator parts, will be described.

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**Key Words:** Magnetic cooling, Magnetic phase transition, Net shape manufacturing.

### **References**

[1] <http://www.drream.eu>