



Critical Materials and Life Cycle Management The Example of Rare Earths - Curse or Blessing?

Save-the-date: Workshop on February 6th through 8th 2023 at DESY in Hamburg/Germany

Dear Colleagues,

Life Cycle Assessments have become mainstream in industry and scientific research. **iFAST** is a platform for discussing and finding solutions to this issue in accelerator science.

Our focus in the work shop will be on the Life Cycle Management, using the example of Rare Earths, the key material in permanent magnets, used in accelerator, turbines, hard drives and many other fields. The workshop will address the following topics:

- **Life cycle management:** Consider entire life cycle of technical components using critical materials: construction operation deconstruction
- **Mining and processing of rare earths:** A socio-ecological approach energy savings versus destructive mining and processing
- **Using permanent magnets:** Examples of the use of permanent magnets and its Pro and Con
- **Certification for mining and processing of rare earths:** How to force more sustainable thinking in the production of rare earths
- Recycling of permanent magnets: New processes for the re-use and recycling of permanent magnets
- Alternatives for permanent magnets with rare earths: New magnetic materials as well as improved electromagnets

Science, industry, politics and NGO in cooperation can forces to tackle the problem.

We can develop solutions together.

The invitation, program and registration info will follow soon. For more information, visit

https://indico.desy.de/event/35655/ (still under construction)

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