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Environmental efficiency of tape storage at CERN

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The current capacity of the CERN's data storage tape infrastructure is around 1 EB.

The talk will first explain the 3 building blocks of this technology (automation, tape drives and media), their lifecycle and different resource requirements.

By using data compiled by IBM and Spectra Logic we will then outline the environmental and sustainability impacts of CERN's configuration in terms CO2 emissions and power consumption.

In the 3rd section we will explore how different usage patterns have different requirements on the overall infrastructure.

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