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## Computing at the Exascale, CERN IT's Approach to Sustainability

*Wednesday 14 May 2025 10:30 (15 minutes)*

The CERN IT department operates the computing, storage and networking infrastructure for most of the services at CERN. The core task is to provide storage, processing and networking for the four LHC experiments. Long term storage is provided in the form of tape libraries with a total capacity of one exabyte, disk storage at the same scale. The 450000 CPU cores are mostly used through IT's batch system. As the WLCG-T0 CERN covers roughly 20% of the computing needs of the experiments.

These resources are hosted in the 4.1 MW Meyrin Data Centre and the 2 MW Preessin Data Centre.

We will present the current and planned activities of CERN IT to understand and improve the environmental sustainability of computing at our site and within the WLCG community.

In addition, an overview of CERN's general approach to environmental sustainability will be given.

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**Session Classification:** Submitted Talks