



## **Helium management as part of sustainability**

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### **ABSTRACT:**

Helium is a critical resource for various industries and scientific research infrastructures, including at CERN for operation of cryogenic systems for the Large Hadron Collider, associated detectors, and Testing Facilities. Despite its abundance in the universe, helium is a finite resource on Earth, mainly extracted from natural gas reserves. The increasing demand and limited supply require effective helium management strategies to ensure its availability for future generations. This talk will give an overview of the current state of helium sourcing, share good practices for inventory preservation and limitation of losses especially in the context of large scientific equipment. Finally, it will share insights to integrate helium management good practices and evaluate helium footprint for future scientific studies and projects.

**KEYWORDS:** CERN, LHC, cryogenics, helium, sustainability

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