



Contribution ID: 2708 Contribution code: WEPM071

Type: **Poster Presentation**

80% reduction in CO2 footprint with Hybrid Current Leads

Wednesday, 10 May 2023 16:30 (2 hours)

Seen in the light of finding ways to reduce the CO2 footprint in the Big Science world and at the same time make big saving in operating cost due to 90% lower LHe consumption I will in the presentation share the following insights:

- 1) initial idea and economic business case for 10-20 kA current leads
- 2) the 13 kA Hybrid Current Lead design by using LN2
- 3) the application in a test cryostat
- 4) detailed engineering, production, and timeline
- 5) performance after installation in the test cryostat
- 6) next steps

The presentation will be rich with photos from the production/installation. Besides giving a PowerPoint presentation also a poster session is prepared.

Background:

Mark & Wedell has been supplying current leads to CERN, GSI, CEA etc. over the last 20+ years.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

Primary author: EKVALL, Torben (Mark & Wedell A/S)

Presenter: EKVALL, Torben (Mark & Wedell A/S)

Session Classification: Wednesday Poster Session

Track Classification: MC7: Accelerator Technology and Sustainability: MC7.T10: Superconducting Magnets