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Carbon Costs in IRIS & UKRI NetZero DRI

Thursday 18 April 2024 09:25 (25 minutes)

As the UK's journey towards NetZero accelerates, we need robust information to inform both strategic and operational decisions, from policy development and funding allocation to hardware procurement, code optimisation and job scheduling.

The UKRI Digital Research Infrastructure NetZero Scoping Project published its technical report and recommendations in August 2023 [1] and funded the IRISCAST project which took a learning-by-doing approach to conduct a proof of concept 24-hour carbon audit snapshot across a multi-site heterogeneous research infrastructure [2].

IRIS [3] has taken this a step further by funding a Carbon Mapping Project (IRIS-CMP) to develop practical carbon models to apportion carbon costs and to deliver an outline delivery roadmap. These models have been tested with real world data from both the QMUL GridPP T2 and from STFC SCD-Cloud.

We present our key IRISCAST and IRIS-CMP findings, recommendations, and lessons learned, in the context of the UKRI Net Zero DRI journey.

[1] https://doi.org/10.5281/zenodo.8199984
[2] https://doi.org/10.5281/zenodo.7692451
[3] https://www.iris.ac.uk/

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