

GreenMetaData: Standardising Environmental Impact Reporting for Computational Research

Sustainability Conference for Responsible Research Computing (SC4RC) 2026, CERN, Geneva
4-8 May 2026

Dr Caterina Doglioni, Dr Christina Bremer, Dr Dylan Powell, Jyoti Bhogal, Dr Loïc Lannelongue, Michael Sparks, Dr William Haese-Hill

1. What?

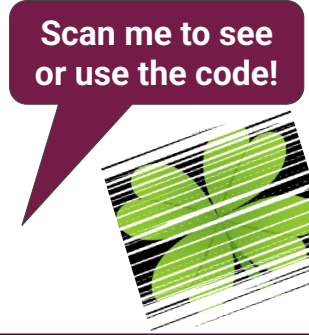
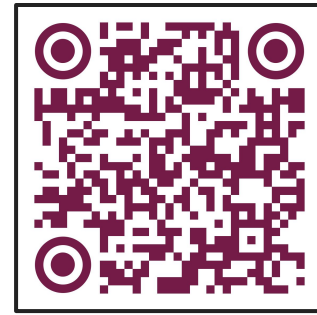
A standardised green metadata file format.

2. Why?

Growing need for standardised ways to report the environmental impacts of computational research projects

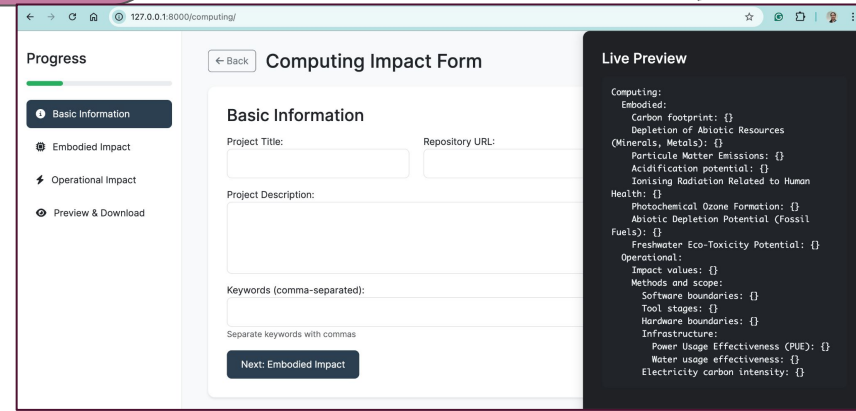
3. How?

- Find out environmental impact using calculators.
- Use this tool 'GreenMetaData' to create a standard metadata file format.



4. Output usage:

- while you create your project reports
- for creating journal articles, grant applications, etc.
- to add a metadata file to your software repository, like GitHub



GitHub link:
<https://github.com/GreenAlgorithms/GreenMetaData>

