

GRAND Green Policy (v1)

The GRAND collaboration is committed to environmental awareness. We will endeavor to continually improve our environmental performance as an integral part of the development and operating procedures of the GRAND experiment. We outline below a set of guidelines which the GRAND Collaboration promotes and commits to follow to the best of its capabilities.

1. Travel

- a. Whenever possible, on-site missions will be performed by local collaborators. Missions will preferably be combined with other visits or events to be held close-by.
- b. Collaboration meetings will be held as much as possible at locations inducing lesser environmental impact in terms of travel, and/or using geographical hubs (typically, one in China, one in Europe, one in the USA and one in Latin America).
- c. Collaboration lunches/buffets and coffee breaks will be low-waste and will offer a balanced proposition of vegetarian dishes.

2. Digital

- a. The collaboration will work on strategies to reduce the environmental impact of data handling (e.g., by reducing the data volume), without compromising a [FAIR](#) data management policy.
- b. Data will be stored as much as possible in low-carbon-emitting data centers.
- c. A common simulation data library will be built to prevent multiple production and storage.
- d. The collaboration will work on establishing guidelines and incentives to run and store selected simulations, by weighing the cost/benefit of runs.
- e. The collaboration recommends to all its members to use electronic devices (laptops, tablets, monitors, ...) longer than 5 years, and to consider the '[repairability index](#)' before choosing new electronic devices.

3. Hardware

- a. The size and weight of the detection units will be optimized, to use and transport less material.
- b. The collaboration will favor local production for the hardware components.
- c. The collaboration will endeavor to reduce the electrical consumption of the detection units.
- d. The environmental impact will be included in the tendering process of production and purchasing of goods.
- e. Any installation will minimize the impact on wildlife.
- f. The collaboration will follow the technological progress on solar panels and batteries and include the environmental impact from the production and disposal in the choice of hardware components.
- g. The collaboration will establish a recycling plan for all hardware material produced and deployed.

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Signatures:



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