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Towards a Sustainable ET Computing Center

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Minimizing environmental impact is essential for the Einstein Telescope, both as a societal responsibility and to meet the expectations of funding agencies. Computing will account for a significant share of operational energy use and is therefore a key focus. We are developing a concept for a climate-neutral ET computing center that uses intelligent workload scheduling to align load with periods of high renewable energy availability, on-site energy production and storage, and waste heat reuse. These measures aim to enable fully climate-neutral operation and extend hardware lifecycles to reduce production impact. To test these concepts in practice, we plan to deploy a transportable, shipping-container-sized prototype.

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