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Preliminary Power Estimates for the FCC-hh

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Abstract title

For the Future Circular Colliders under study at CERN both hadron (FCC-hh) and lepton (FCC-ee) collider options are being investigated. In anticipation of more detailed design of the machine lattice, magnets and different systems preliminary power requirements for the FCC-hh have been estimated by intelligent scaling from the LHC, for which a high level of return on experience is available. The scaling assumptions used will be outlined and the preliminary power estimates of the different systems, services and circuits will be discussed. Finally an outlook on further steps and requirements towards refining these estimates will be proposed for the FCC-hh together with an approach for estimating the power requirements for the FCC-ee design.

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