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The ESS RF Systems and the plans for new developments

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The European Spallation Source, a 5 MW average power, pulsed proton linac, will accelerate 62.5 mA of protons to an energy of 2 GeV. Each pulse is 2.86 ms and repeats at 14 Hz, resulting in a power-to-beam requirement per pulse of 125 MW of RF power. The split installation schedule means that existing, more mature technology is considered for the first part of the programme but for the later parts of the linac, which contribute approximately 80% of the final beam energy, development of new, high power and high efficiency sources and power supply systems can be investigated. This talk will review some of the key RF sources and new developments being pursued for ESS.

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