

Energy Saving on SPS for Greater Availability and Reliability

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The Super Proton Synchrotron is the main injector for the Large Hadron Collider (LHC). The 7 km SPS accelerates particles from 14 to 450 GeV. The deployment of the new Function Generator Controller encouraged a development of an energy saving system and optimizes the magnetic cycle to his maximum by pulsing only when needed. FGC framework will then be the new standard across the accelerator complex. The FGC framework in the SPS will simplify operation and add more flexibility, reliability and availability.

The implementation requirements for energy saving will be described.

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