

Recent World Wide Research Activities of Superconducting Power Devices

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Hundreds meter length class HTS power cable which was operated in alive utility line is installed in now more than 6 areas in the world. And, also a HTS fault current limiter has been already tested in real utility line in Germany. SMES system is also established in a semiconductor manufactory in order to compensate the voltage sag and increase the power quality in Japan. At the end of August 2007, in China 1MVA class SMES system will be installed in real utility line, too. As well known, two different kinds of HTS power cable were already installed in Gochang KEPCO Power System Test Center and a few years later the 154kV class HTS power cable system, which must be the world highest voltage level HTS power device, will be added. From 2005 it was started that HTS power devices were introduced to the real utility line. In this paper author will give you the recent world wide research activities of SC power devices.