



## NTT publishes technical requirements for HVDC power supply

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The Nippon Telegraph and Telephone Corporation (NTT) has published the technical requirements for High-Voltage DC (HVDC) power supply system by summarizing technical specifications for introducing them to telecommunication and data-center buildings in NTT group. The document is based on standards set by the International Telecommunications Union - Telecommunication Standardization Sector (ITU-T). NTT plans to boost the use of HVDC in the information & communication fields.

In addition, NTT tackles energy conservation in ICT fields. Under the newly-released technical requirements, the input port to ICT equipment has been specified. It is also applicable to the input to voltage converters and other points receiving high-voltage DC power. The operating voltage range is set from 260 V to 400 V and the nominal voltage is set to 380 V. In the requirements, the operating conditions in the case that the voltage is outside the operating voltage range, or supplying power exceeds rated power of the power supply unit in the ICT equipment, and the start-up current as well as various safety factors were taken into account.

NTT plans to introduce HVDC power supply system to its telecommunication and data center buildings from fiscal year 2016, in order to improve its energy efficiency. At the same time, NTT will be expanding introduction of DC power supply system, by introducing not only ICT equipment directly connected to HVDC system, but also the equipment connected to lower DC voltage (12V, 48V, etc) converted in a rack or in vicinity of a rack.

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