

Suslova O. V., Shulga R. N.

Technical and economic features of HVDC converter substations.

Comparative analysis of technical and economic characteristics, circuit topologies, fields of application of converters for high-voltage direct current transmissions based on materials from foreign manufacturers is given.

Keywords: converter substation, thyristor valve, fully controlled valve, current source converter, voltage source converter, two-level converter, three-level converter, modular multilevel converter, Single Line Diagram of converter station, cost.

Suslova Olga Vladimirovna, PhD. tech., Docent, Scientific and Technical Center of Unified Power System (STC UPS), St. Petersburg.

E-mail: suslova@ntcees.ru

Shulga Robert Nikolaevich, PhD. tech., VEI, Moscow.

E-mail: rnshulga@vei.ru