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The present thesis investigates di erent transmission line systems for transmitting bulk energy from renewable sources. Speci cally, two systems will be focused on: the high-voltage alternating current (HVAC) system and the high-voltage direct current (HVDC) system. In order to determine the most e cient way of transmitting bulk

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transmission systems under the AC faults like L-G; L-L & LLL faults are analyzed. Simulation for 2-level VSC–HVDC is carried out for fault on AC side. AC faults like L-G, L-L, and LLL fault are created and variations in current magnitude are observed.

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faults in HVDC systems are presented in [20–28]. 2.1 DC line-to-line fault A line-to-line fault is the worst case of DC faults in the operation of a VSC-HVDC system. The line-to-line fault has three stages including capacitor discharging, diode freewheeling and grid current feeding phases as shown in Fig. 1. A VSC-based HVDC system ($\pm 150\text{kV}$...

HVDC Transmission Systems UNIT-1 Introduction Electric power transmission was originally developed with direct current. The availability of transformers and the development and improvement of induction motors at the beginning of the 20th century, led to the use of AC transmission.

High Voltage Direct Current technology has certain characteristics which make it especially attractive for transmission system applications. HVDC transmission system is useful for long-distance transmission, bulk power delivery and long submarine cable crossings and asynchronous

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ETSAP Energy Technology Systems Analysis Programme FCA Forward capacity auction FERC Federal Energy Regulatory Commission FOSG Friends of Supergrid FRT Fault ride through GTO Gate turn?off HVAC High?voltage alternating current HVDC High?voltage direct current HTP

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