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Author(s) Name	M.T. Alam, Joniur Rahaman, Foyzal Dhali		
Contact Email(s)	tawhidul.alam@aiub.edu		
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Abstract

This research aims to provide comprehensive information on current state-of-the-art technology in the field of high voltage transmission lines. Also, this study compares the performance of present high voltage AC/DC power systems and classifies potential future opportunities. It presents a contextually updated cost analysis for researchers' working on modern HVAC and HVDC transmission systems. Besides this paper explained the most important aspects of the modern features of transmission systems. It also describes the modern technology, conductors, and accessories equipment for the transmission system, which greatly reduces the loss of power transmission. This paper further describes the cost breakdown of HVAC and HVDC overhead and underground transmission lines, cost estimation, explanation of comparative HVAC and HVDC transmission costs, and price variation. As the variation between the HVAC and HVDC transmission lines increases, a certain amount of voltage drops and losses occurs which is explained in detail.

