

Enable to Transfer of Bulk Power from Long Distances without Any Modification of the Existing Over Head Transmission Line and Only Replacing the Conductor

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Abstract

In globally AAC, AAAC & ACSR (All Aluminum Conductor, All Aluminum Alloy Conductor & Aluminum Conductor Steel Reinforced) are most used for transmission lines. To transfer bulk power from long distances and to meet the increased load demand either we must construct the new UHV (Underground High voltage) or EHV (Extra High Voltage) transmission lines or update the existing transmission lines (Required New Structure- Like all Tower, pool and all other related accessories Including Conductor & New Land). Uprating of existing transmission lines (Required New Structure- Like all Tower, pool, and all other related accessories Including Conductor & New Land)..i.e. modifications in the existing transmission line to enable increased current flow limits. Making new transmission lines also has a few constraints: ROW constraints (Lack of availability of corridors for construction of new transmission lines due to High Population Density, waste of fertile land, and Forest/ Ecology conservation) and Time constraints.

Keywords

Aluminum, Conductor, Aluminum Alloy, Conductor, Steel Reinforced, voltage transmission,

Biography