

Fundamentals of the choice of external insulation of overhead power transmission lines based on the results of field studies in areas with soil, marine and industrial pollution.

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The range of issues related to the insulation of overhead power transmission lines in conditions of pollution is covered. Methods of insulation selection based on field studies with determination of the discharge voltage and specific surface conductivity of insulators for the main types of pollution: soil, marine, industrial are comprehensively considered.

Key words: overhead line, insulators, field investigation, flashover voltage, surface conductivity, pollution level, external insulation choice.