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Choice of the main structural elements of DC overhead lines.

The modern scientific approach and features of a choice of the basic technical decisions taking into account specificity DC overhead lines are considered. The following issues are considered:

- corona discharge on wires at a DC voltage;
- ecological influence of DC overhead lines;
- selection of the main structural elements of DC overhead lines (wires, pole design, intermediate supports, air gaps, insulators, lightning protection);
- method for selecting external insulation.

Keywords: overhead line, DC voltage, crown loss, ecology, pole construction, intermediate tower, lightning protection, external insulation, method of mathematical statistics.