

*Brilinskiy A. S., Grunina O. I.*

Analysis of electrical engineering strategy papers on medium voltage electrical grids development trends is performed in the article. Detailed description of the concept «digitalization» with regard to power distribution networks is presented. In addition, distribution line automatization method and algorithm with self-healing function are proposed.

*Keywords: urban electrical grid, fault localization, selfhealing, neutral earthing resistor, distribution automation.*