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Particulars of relay protection architecture in wind and solar power plants interconnections with UPS of Russia.

The peculiarities of using wind and solar power stations in the UPS of Russia are considered in the article. Electric networks for connecting power plants are defined, the principle of relay protection of these networks is described, requirements for the stability of power plants in short-circuit conditions on the part of the SO UPS are specified. Based on the above information, the problem of integration of wind and solar power plants in the UPS of Russia is shown. Solutions are also offered.

Keywords: wind power plant, PV power plant, short circuit fault, relay protection, low voltage ride-through (LVRT) capabilities.

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