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Influence the electrical parts of wind turbine on its energy characteristics.

Mathematical model of the stand-alone electrical complex on the base of wind turbine are described in the article. Using the developed model of the system “wind turbine – generator – rectifier – storage battery – load” start mode of wind turbine are investigated and range limit of possible parameters steady modes of wind turbine are defined. By analyzing the starting mode condition, at which wind turbine starts to give power, are formulated.

Key words: stand-alone electrical complex, wind turbine, mathematical model, start mode of wind turbine.

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