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FEATURES OF OPERATION OF AUTONOMOUS CHARGER STATIONS BY ELECTRIC VEHICLES USING WIND ELECTRIC TURBINES AND BUFFER BATTERIES OF ENERGY

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Abstract

A mathematical description of the operation of an autonomous charging station of electric vehicles with the use of wind turbines is proposed. The energy intensity of the buffer energy accumulator is substantiated when implementing autonomous charging stations of electric

vehicles with the use of wind power plants as electric power generators. The features of providing electric energy of the charging station on the basis of real data of wind speed are considered. The installed energy buffer battery is required for the guaranteed charge of electric vehicles. References 12, figures 5.

Key words: wind turbine, battery, electric vehicle, autonomous charging station.

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