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Investigation of reactive power parameters in the elements of the power supply system

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The issue of reactive power compensation is a complex of important problems, the correct solution of which means large savings of monetary and material resources on a national scale. The article reports on the results of the study of reactive power parameters in the power supply system of industrial enterprises and electric vehicle charging stations. Electric vehicle charging stations can be a source of voltage deviation and power loss in the distribution system. An analysis of the results of the study is given, the law of distribution of a random variable - the coefficient of reactive power is determined. As a result of experimental studies at a number of industrial enterprises, the data on the parameters of transmitted and consumed electric energy were obtained. Experimental studies of active and reactive power parameters were conducted, on the basis of which theoretical laws of active and reactive power parameters density functions were obtained. © 2022 IEEE.

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charging station; power supply system; probability distribution law; reactive power; reactive power factor

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