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**Smart Grid conception in the context of scientific and technological achievements within the field of electric power systems structure and trends of their development.**

The paper analyses the emergence and transformation of intelligent electric network (Smart Grid) concept in Russia and in other industrialized countries. The place of this object in the architecture of electric power systems is revealed. The paper also shows that it is impossible to consider Smart Grid as a scientific and technological product or the result of a special project, including a project of national scale. The necessity of an evolutionary approach to the development of UES of Russia intelligent features from its modern state is substantiated.

*Keywords: electric power system, intelligent electricity network (Smart Grid), operational dispatch control.*

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