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**The role of the power plants of average and big capacity in the Smart Grid of Russia.**

The role of the power plants of average and big capacity in the Smart Grid, the architecture of which is developed by JSC «Russian network» and the System operator, is analyzed. It is shown that the power plant will determine the carrying amounts and operating reliability of the UES of Russia, serve as the main stabilizing factor in stationary and transient modes. An approach to the synthesis of the intellectual station on the basis of ensuring the quality of power supply of the consumers and integration with the network intelligent control devices is proposed.

*Key-words: Smart Grid, the electric power station, the consumer of electric energy, electricity and power market, model, power equipment.*

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