## Scenarios formation for long-term development of russian unified power system based on the multi-criteria optimization.

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This article studies the analysis of a set of Pareto-optimal solutions and proposes an approach to its clustering, allowing one to identify basic solutions that point key directions for the development of the Unified Power System. Additionally, consider problems of substantiation of the intersystem transmission lines' development in the formation of an effective prospective structure of the Russian Unified Power System.

Key words: rational prospective structure of generating capacities, multicriteria optimization, clustering, power industry development planning.