

Auxiliary Production: Design and Operation of Energy Supply Systems

R.N. Pigilova¹, Kazan State Power Engineering University, rozapigilova@yandex.ru

T.V. Malysheva², Kazan National Research Technological University, Assoc. Prof. Dr., tv_malysheva@mail.ru

¹ Lecturer of Department, Kazan, Republic of Tatarstan, Russia

² Professor of Department, Kazan, Republic of Tatarstan, Russia

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key words

manufacturing industries, energy resources, energy system, energy for motive power, energy for technological purposes

We examined the actual problem of organization and operation of power supply systems at manufacturing enterprises. Here, we have revealed the tendencies of growth in the specific consumption of energy resources for most types of electrical equipment. It determines the relevance of the search for new scientific approaches to the design of energy supply systems. We have substantiated the importance of scientific industrial engineering in the choice of models of energy supply systems in production. Also we showed the relative stability of the share of resource consumption for production purposes with a certain predominance of maximum values for energy use per unit of thrust. All this may indicate the presence of unproductive energy consumption due to equipment downtime or its irrational use.

In conclusion, we believe that when choosing models of power supply systems in production, scientific industrial engineering is necessary as a basis for designing auxiliary power supply processes of the main production.

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