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Energy saving

L. M. ULYEV, A. A. KOVALCHUK. ENERGY SAVING POTENTIAL OF TITANIUM DIOXIDE PRODUCTION AND REFINING.....2

Based on the results of the inspection of the titanium dioxide production and refining facility, power engineering and economic energy saving potentials were determined. This achievement was reached by pinch integration of processes of the enterprise and selection of the optimal pinch temperature between cold and hot compound curves that gives a possibility to reduce power consumption in the facility to 3.6 MW.

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The possibility of reduction of electric power losses in networks of industrial enterprises and of electric power costs due to electric load leveling by using the method of network planning and management.

Power engineering

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The article describes the state and prospects for the development of the electric power industry of Ukraine; gives grounds for the necessity of use of tools of the strategic management in activity of power supply and power transportation companies; presents results of use of the methods of the strategic segmentation of activity and the analysis of the operational environment of the power sales company (Oblenergo) as well as determination of hazards and possibilities; determines key aspects of success in the field of electric power supply.

S. V. PONOMAREV. DISTINCTIVE FEATURES OF INSTITUTIONALIZATION OF UKRAINIAN POWER MARKET AND THEIR INFLUENCE ON THE PRICE POLICY IN THE FUEL AND ENERGY COMPLEX.....33

The article discovers cause and effect relationship between distinctive features of institutionalization of the domestic power market and the price policy in the fuel and energy complex as well as the mechanism of their destructive influence on the increase in power efficiency.

Key words: power market, institutionalization, fuel and energy complex, price policy, power efficiency.

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The article presents the research of the dynamics of the final consumption of natural gas by some European countries as well as the level of their energy dependence. It also contains the analysis of the current state of the natural gas market in Poland, including the information about volumes of domestic production and import of natural gas. It gives the description of main trends of restructuring of the natural gas market and of legal and regulatory documents which determine these trends.

Key words: energy dependence, natural gas, operators of natural gas transportation and distribution systems, underground gas storage facilities

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Key words: dielectric permeability, by volume resonator, dispersion.



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