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**ABSTRACT****Energy saving****V. K. RUDNEV, V. M. SUPONEV, S. L. HACHATURIAN. EFFICIENCY OF USING GAS SMEAR DURING SOIL PERFORATION.....2**

*The extent of soil resistance to the conic working instrument is calculated in this article. Therefore the index of reduction efficiency of this extent due to gas smear effect in accordance with the sharpening angle of the working instrument and the coefficient of external soil friction.*

**A. P. SEMENEY. RESULTS OF TESTS OF INDUSTRIAL IMPLEMENTATION OF PYROLIZED HEAT-GENERATORS.....7**

*The results of the complex diagnosis of the water-heating aggregate based on the pyrolized heat-generator with output of 900 kW working on the fuel from wood waste. It is determined that technological and ecological features of the aggregate correspond up-to-date requirements and the usage of this aggregate in the communal branch helps to reduce significantly tariffs to hot and cold water supply.*

**Power engineering****M. O. DUEL, G. I. KANJUK, T. N. FURSOVA, E. N. BLIZNITSHENKO, AUTOMATION OF DETERMINATION OF ENERGY FEATURES OF ENERGY EQUIPMENT...13**

*This article is devoted to the methods of the automatic determination of energy features of energy equipment in the technological process necessary for the realization of optimal direction in the hierarchical system "block of energy – electric station – system of energy".*

**K. V. USCHAPOVSKY, O. L. SHPAK. MODEL OF THE REALIZATION OF ELECTRIC ENERGY TO THE POPULATION IN MARKET CONDITIONS.....20**

*This article deals with the research in the branch of raw visual imitating models that make available the realization of electric energy to the population. The following model covers the information about the administrative structure, necessary resources, working plans e t.c. in the conditions of the industrial joint stock company "Khmelnitskoblenegro". This model can be used in the further optimization of business processes.*

**Alternative energy sources****V. A. MALJARENKO, G. M. FEDORENKO, S. V. GUBIN, A. I. JAKOVLEV. STUDY ON TERRESTRIAL AND COSMIC HYDROGEN. PART 2 .....28**

*The features of gaseous, liquid and metallic hydrogen, the industrial methods and the sectors of use are represented in this article. Perspective trends of hydrogen energy transformation and expected effects in energetics and physics are indicated.*

**A. F. REDKO, A. A. ONISHCHENKO. METHODS OF THE STUDY ON THE SCALES IN GEOTHERMAL SYSTEMS OF WATER SUPPLY.....40**

*Depending on the temperature, the supersaturation of the solution and the hydrodynamics of the water stream the deposits of different type and density are formed. They are made from the micro crystals of calcium carbonate and the modifications of calcite or aragonite. Calcite is formed basically in low supersaturations and high temperatures, aragonite is formed in high supersaturations and low temperatures. This article also deals with the methods of study and control of scales in geothermal systems of water supply.*

**N. L. IVASCHUK, A. V. IVASCHUK. PERSPECTIVES OF USING THE GAS MARKET IN POAND.....45**

*The following article covers the analysis of perspectives of development of the natural gas market in Poland in accordance with its organization and potential increase of its capacity. The internal legislation is included in the equal measure with the directives of regulatory bodies of the European Union. Aiming at the estimation of energy potential we studied volumes of natural extraction, import and energy product sale. We analyzed the consumer gas structure as well as its maximal permitted keeping limits within the territory of the country.*

*Key words: natural gas, gas condensate, system operators of gas transportation and distribution, underground storehouses of gas. Scitntific and technical progress and efficiency of production*

**V. M. ARSENYEV, S. O. SHARAPOV, V. V. MIROSHNICHENKO. USING STEAM AND LIQUID EJECTOR FOR RECOMPRESSION OF SECONDARY STEAM IN VACUUM STEAM INSTALLATIONS.....57**

*This article covers the increase of energy efficiency in vacuum steam installations by using the steam and liquid ejector working on principle of jet thermal compression. The efficiency of vacuum in such installations is estimated on the example of technological condensation of milk by evaporating until the limit dry substance.*



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