

Energy saving

V. P. ROSEN, B. L. TYSHEVYCH, P.V. ROSEN. **BENCHMARKING METHODOLOGY FOR ENERGY EFFICIENCY FOR THE INDUSTRY OF UKRAINE**.....8

This paper devoted to the organization benchmarking using energy efficiency for industrial and utility enterprises in Ukraine. It focuses on an integrated approach, which is to create a legislative base and organization of informational support during benchmarking. Details the experience of EU countries in decision similar problems.

A.V. YEFIMOV, T.V. POTANINA, V. L. KAVERTSEV, T.A. GARKUSHA, T. A. YESYPENKO **APPLICATION OF INTERVAL STATISTICS FOR DIAGNOSTICS OF TECHNICAL STATE OF THE EQUIPMENT AND THE PLANNING DURATION OF REPAIRS OF TURBOSETS OF HEAT POWER PLANT AND NUCLEAR POWER PLANT**.....19

Tasks of optimization of planning and organization of repair works on power units of HPS and NPS and calculation of their coefficients of readiness on the basis of results of diagnostics of the technical state of equipment are one of the most essential and actual problems of energy. The methods of analysis of diagnostic parameters of estimation of the state of equipment of power units of HPS and NPS, based on the methods of statistics of interval data, are offered in the article. Influence of duration of repair works is shown on the coefficient of readiness of power units of HPS and NPS.

Energy

I. G. SHELEPOV, T. I. BUKOVA. **ON THE ISSUE OF QUANTATIVE ESTIMATION OF INFLUENCE OF TPS THERMAL ENERGY SYSTEMS RELIABILITY ON EFFICIENCY INDICES**.....26

Nowadays there is no single methodology of estimating influence of reliability on efficiency indices. The authors suggest methodology based on a method of estimating damage caused by refusals in TPS elements operation.

A. VOLOSHKO, T. LUTCHYN, O. KLADKO. **SHORT-TERM FORECASTING OF ELECTRIC LOAD SCHEDULESON BASIS OF WAVELET-TRANSFORM**.....34

To increase the accuracy of existing methods of forecasting electric load schedules previously grouped depending on the values of regime parameter – coefficient of the form chart. According to the proposed method of analysis in the wavelet-transform amenable to use features of the interconnectedness of wavelet-coefficients.

Alternative energy sources

T. I. DEMYANENKO, **DISTRIBUTING OF ELECTRIC POWER IS IMPORTANT CONDITION OF DEVELOPMENT OF ALTERNATIVE ENERGY**.....42

In the articles determinations of power problem as problems of energy are considered in an aggregate, to salient as a key global problem contemporaneity, on character of decision of which not only overcoming of ecological crisis but also construction of global economy and new world order depend straight. Problems, conditioned a senescent infrastructure, create additional obstacles for bringing in of new investments in the power projects of region.

Energyaudit

S. N. POKALISYN. **FIRST GETTING UP RIVER WATER PUMP STATION FOR ENTERPRISE TECHNICAL NEEDS. CURRENT POWER EFFICIENCY ESTIMATION AND NEW TECHNICAL DECISION**.....50

ABSTRACTS

Low efficiency reasons of the powerful first getting up river water pumping station for the technical needs of enterprise had been examined. It is set that project decision with the two-stage increase of water pressure, was the result of existence not enough complete row of pumps at that time. Nowadays easy access to the use of modern high-efficiency multi-stage down-pumps allows to offer reconstruction of the pump station with the use of multi-stage down-pumps from Layne Bowler company.

Ekonomy

T. V. OMELCHENKO. INVESTMENT APPEAL OF COAL MINE INDUSTRY OF UKRAINE.....57

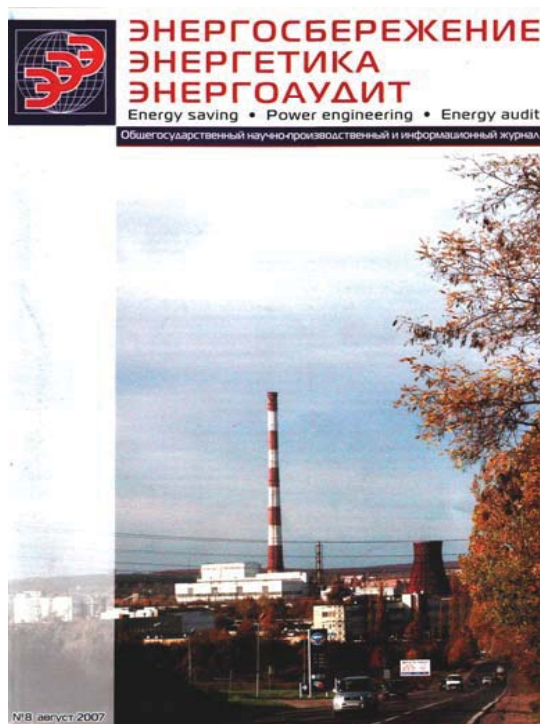
Sources searching, raising the ecological conditions of environment, and also energy dependence of economy and smart using of natural resources are analyzed. The economic-mathematical model of produced energy volumes forecasting is constructed. With help of the model are calculated measures of effectiveness of coal gas methane degassing and utilization and made a decision of direction for received energy resources using.

Key words: coal-bed methane, estimation, mathematical model, differential equations, effectiveness, degassing, utilization.

Scientific and technical progress and efficiency of production

A. N. BORISENKO, E. E. SVETLICHNAJA. INCREASE OF ENERGoeffektivnosti OF AUTONOMOUS POWER-STATION FOR ACCOUNT OF OPTIMIZATION OF MANAGEMENT OF DIESEL-GENERATOR.....64

In the article the questions of increase of tekhniko-ekonomicheskikh indexes decide autonomous diesel of the electric station in the operating modes, related to the sharp changes power of loading due to optimization of managing influences on principle of maximum.



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