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SUMMARIES

METHODOLOGY OF EVALUATE THE REGION'S COMMUNICATION MARKET POTENTIAL *O.Zumburidze, I. Kukava.* "Energy". №1(93). 2020. Tbilisi. p.5-14. geo. sum geo. engl. rus.

In this article is discussed info-communication market potential, which insures region's balanced information-communication development based on world's development tendencies. In the role of the methodical instrument, it is recommended to use the method of economic-mathematical modeling. The potential of the regional information-communication market is determined by the difference between the level of the information-communication market development and the sources of information-economic equilibrium. Under market economy, one of the key tasks facing the marketing divisions of companies is to evaluate market potential.

Ill. 2.

ABOUT ENVIRONMENTAL HYDROPOWER POTENTIAL OF GEORGIAN RIVERS. *B.Pipia, M. Mardaleishvili, G. Khelidze.* "Energy". №1(93). 2020. Tbilisi. p.15-19. geo. sum geo. engl. rus.

Assessment of hydropower potential of Georgian rivers is important for estimating the possibilities of the development of hydrogeneration. In determining the hydropower resource, it is necessary to consider environmental water discharge, which will allow us to specify the river potential actual use of which will be possible for energetic purposes. Concept of environmental hydropower potential suggested in the article reflects hydropower potential that should actually be developed. Power potential of 18 Georgian rivers is estimated based on the value of environmental water discharge accepted in Georgian engineering and designing practice.

Tabl. 1, bibl. 6.

ABOUT ONE POSSIBILITY OF AIR PURIFICATION IN GEORGIA

V.Beroshvili, V.Mgaloblishvili, E.Machavariani, D.Mgebrishvili. "Energy". №1(93). 2020. Tbilisi. p.20-25. geo. sum geo. engl. rus.

The work shows the severe ecological state of atmospheric air in Georgia and says that in the modern world, the most effective means of combating air pollution caused by motor vehicle emissions are increasing the share of electric vehicles and replacing fuel from liquid petroleum products with natural gas. State measures carried out in various countries that stimulate the conversion of cars to natural gas are presented.

Tabl. 3, bibl. 5.

DEPENDENCE OF ELECTRIC FIELD TENSION OF HIGH VOLTAGE AIR POWER TRANSMISSION LINES ON THE DISTANCE FROM BOUNDARY LINE PROJECTION

T. Museliani, A. Vashakidze, L. Balakhashvili. "Energy". №1(93). 2020. Tbilisi. p.26-33. geo. sum geo. engl. rus.

Table of the dependence of the electric field tension of high voltage air power transmission lines on the distance from the boundary line projection run based on the estimation of the electric field tension level of the air power transmission line using mirror reflection method is given in the study. The results obtained will be useful to evaluate sanitary-hygienic norms when conducting agricultural or similar activities within the zone of the protection of the above-mentioned voltage linear buildings.

Ill. 1, tabl. 1, bibl.6.

PROSPECTS FOR THE DEVELOPMENT OF SOLAR MICRO POWER PLANTS IN GEORGIA AND EXPECTATIONS FOR "NET METERING" REGULATION.

Z.Gachechiladze, M.Melikidze. "Energy". №1(93). 2020. Tbilisi. p.34-46. geo. sum geo. engl. rus.

On December 20, 2019, the Parliament of Georgia adopted Georgia's Laws on Energy and Water Supply and on Promotion of Production and Utilization of Energy from Renewable Sources, which should create basis for the introduction of modern methods of supporting

renewable energy sources in Georgia. Recent problems with hydropower commissioning have shown that it is important to utilize all types of indigenous renewable energy sources, including small-capacity generation, which has not yet been paid adequate attention in Georgia. This paper focuses on the development trends of micro power plants, in particular solar photovoltaic power plants, discusses the needs for additional support, based on the analysis of their economic attractiveness of micro power plants and Improvement possibilities of so called “net metering” regulation.

Ill. 4, tabl. 1, bibl. 17.

IMPLEMENTATION OF AUTOMATED SYSTEMS AND ITS EFFECTIVENESS FOR CITY CADASTRE PRODUCTION.

K. Gabechava. "Energy". №1(93). 2020. Tbilisi. p. 47-52. geo. sum geo. engl. rus.

Implementation of automated cadastral production systems and their effectiveness are discussed. It is noted that in Georgia in this regard, according to the experience accumulated in the advanced countries of the world, important measures have been taken. It indicates which advanced countries in the world have taken part in the implementation of this system.

Discussed The main program activities are: Creation of statutory legal basis for cadastre production; Development of automated systems for technical and technological projects; Creation of information protection and disclosure subsystems; Establishment of integrated information and communication system throughout the city and training of staff

Bibl. 4.

ROLE OF CITY CADASTER IN RESOLVING ACTUAL MATTERS RELATING TO THE MANAGEMENT OF TBILISI LANDS

P. Kvatsabaia, K. Gabechava. "Energy". №1(93). 2020. Tbilisi. p.53-58. geo. sum geo. engl. rus.

Correct management and application of city territories has more and more significant role in the and relation matters. Given the constant ongoing changes, it is necessary to record, monitor and evaluate the city territories on regular basis. The city cadaster studies the issues relating to legal, environmental and economic conditions and property registration and creates their database.

Plans and cartographic as well as textual data of the city cadaster are applied when analyzing urban planning, development, arrangement and areal data and resolving other tasks too.

The presented recommendations and proposals will help to improve the management process of Tbilisi land foundation.

Bibl. 5.

THERMODYNAMIC CONDITIONS FOR IDENTIFYING REHBINDER EFFECT

M. Lordkipanidze, T. Jojua, B. Khachidze. "Energy". №1(93). 2020. Tbilisi. p.59-65. geo. sum geo. engl. rus.

Rehbinder Effect can be identified on solid bodies of any structure and nature as a result of the effect of liquid and gaseous surface-active substances. Theoretic estimation of possible effect of the chosen media on the above material can be conducted by applying interphase energy estimation methods or semi-empirical and empirical rules. Besides, except for the thermodynamic nature of the Rehbinder Effect, its kinetic nature should be taken into consideration as well.

Ill. 2, bibl. 2.

USE OF T-SHAPED “BUILDING BLOCK” AS PERMANENT SHUTTERING FOR CONCRETE OF MULTI-LAYERED HEAT EFFICIENT ENVELOPE BUILDINGS.

G. Loladze, D. Loladze. "Energy". №1(93). 2020. Tbilisi. p.66-73. rus. sum geo. engl. rus.

Use of T-shaped concrete “construction blocks” as permanent shuttering left in the fabricated structure is suggested for the construction of heat effective envelope buildings. Block is a beam with protrusion on one of the faces. The blocks used are erected as outer layers of the three-layer structure and are laid with the protrusion inside the structure. Internal layer is formed by pouring concrete mixture into the space between the installed T-shaped blocks and it provides solidity of the entire

structure under the construction. The block in an erected wall has the function of the supportive and heat-protecting element.

Dimensions of the block, volumetric weights of the concretes used in their production as well as average volumetric weight and thickness of monolithic concrete layer are assigned based on thermophysical calculation and calculation of the required concrete strength.

Similar method – use of “construction blocks” – can be applied when arranging strip foundations under the constructing structure.

The proposed method allows to construct envelope buildings of the structures on distant areas using small-scale mechanization means.

Ill. 8, bibl. 4.