

METHODS OF STORING ELECTRICITY AND THEIR RELEVANCE FOR RESIDENTS OF UKRAINE

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Анотація

Робота присвячена методам збереження електроенергії у будинках. Було розглянуто методи, які допомагають вирішенню проблеми екології в Україні. Внаслідок неправильного або надмірного використання електроенергії з'являються проблеми у сфері економіки, екології, технічної промисловості та іншого. В Україні на даний момент кризова ситуація, яка вимагає змін та використання ефективніших засобів збереження електроенергії.

Ключові слова: екологія, довкілля, метод, ідея, інновація, дім.

Abstract

The work is devoted to methods of saving electricity in homes. Methods that help solve the problem of ecology in Ukraine were considered. Improper or excessive use of electricity causes problems in the economy, environment, technical industry, etc. Ukraine is currently in a crisis situation that requires changes and the use of more efficient means of saving electricity.

Key words: ecology, environment, method, idea, innovation, home.

Introduction

Today, there are big problems with energy saving in the world. And the invention of means of saving electricity is urgent. Over the past 10 years, bills for electricity consumption in Ukraine have increased by 2 times, which was a consequence of the appearance of modern appliances in homes, including microwave ovens, air conditioners and slow cookers. At the same time, the cost of resources has increased by as much as 600%, which cannot be said about Ukrainian salaries. Therefore, the issue of electricity economy in Ukraine does not lose its relevance.

Research Results

One of the first ways to improve energy savings in homes is an energy audit. An energy audit is an inspection and analysis of energy use and energy-saving opportunities in a building, process or system to reduce the system's energy use without negatively affecting its performance. As a rule, it is carried out by qualified personnel and may be part of a national program. In addition, recent smartphone application developments allow homeowners to conduct relatively complex energy audits themselves. Building technology and smart meters can enable energy users, commercial and residential, to graphically see how their energy consumption affects their work or home, and more advanced technology can help save energy.

The list of the most effective and affordable ways to save electricity is the following:

1. One of the most effective ways to save electricity is to install LED energy-saving light bulbs instead of ordinary ones.
2. Motion sensors are also an effective tool. They turn off the lights in a room or corridor, entrance, garage when there is no one there.
3. Devices that are not used should be turned off. And even better – if you turn off the plug from the outlet. This will not only save electricity, but also protect the devices from possible power surges. Circuit breakers can also be installed.
4. Do not leave battery-powered devices (for example, mobile phones) on longer than necessary to fully charge the battery.
5. Simple household items often store significant amounts of gas and electricity. For example, the refrigerator should be located away from the stove, heater, column or boiler, battery and direct sunlight, and modern cooking devices, for example, multicookers, allow you to cook 2-3 dishes at the same time, which saves as gas as electricity.

Conclusions

Ukraine is one of the least energy efficient countries in the world. Energy is lost when it is transferred or used sparingly. And this means that harmful emissions from its production, as well as considerable payments for communal services, are largely useless. Application of research results will allow economical use of energy sources. After all, the use of these methods is very important for the ecology of Ukraine. These means of saving electricity are very simple and allow every citizen to use them.

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