

**ДИНАМИКА СОВРЕМЕННЫХ ТЕНДЕНЦИЙ
В ПРОФЕССИОНАЛЬНОЙ СФЕРЕ
(ГОСУДАРСТВЕННОГО УПРАВЛЕНИЯ)
ОБРАЗОВАНИЯ**

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Heraclit's statement is an essential proof of dynamism in society: Time flies, time slips. Nevertheless, it doesn't matter which sphere of life is concerned, the gist is in effect inside (communication skills, problem-solving/decision-making skills and technology skills) and consequences outside (create, use, and manage on your own in your professional domain). As a result, we can affirm that today tendencies involve into a formation of student's professional background. The category of tendencies varies from time to time regarding time, industry, policy, economy, social dynamism [1]. Moreover, all tendencies are divided into global and regional which in the aggregate create the applicable conditions for innovations in any professional background and also lead to the appearance of new and actual perspectives on a labour market in a particular profession namely in our scientific research as *public administration*. Consequently, the following analysis of dynamism of up-to-date tendencies in the profession like public administration is obvious due to techno diachronism (innovations and outputs of appliances) and political doctrine and reformation of modern life (laws, orders, norms, rules for the whole globalization). In public administration especially nowadays most social violations are actual for 21st century. That we easily observe during a hard period of civil war on the Ukraine, Euro-union sanctions against Russian Federation, American desire of getting a domination on a global even universal level, chaotic currency flotation and volution on Stock Exchange, activation and consolidation of fashion (bandwagon) on past historical tendencies, artificial outbreak of diseases in Africa, mass media propaganda of distorted information about a superpower (e.g. RF) for the sake of provocation and hate to it among Europeans and others nationalities [2].

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ЭНЕРГЕТИЧЕСКАЯ ПОЛИТИКА РОССИИ

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The Energy policy of Russia is contained in the Energy Strategy document, which sets out policy for the period up to 2020. This document outlines several main priorities: an increase in energy efficiency, reducing impact on the environment, sustainable development, energy development and technological development, as well as improved effectiveness and competitiveness. According to the International Energy Agency (IEA), in order to achieve sustainable development a new powerful independent branch of renewable energy must be created that can play a significant role in ecological compatibility of the fuel sector, and increase the share of net energy in the global fuel and energy balance.

Renewable sources of energy include solar energy, wind energy, water energy (including wastewater energy), tidal power, wave energy of water bodies, including ponds, rivers, seas, oceans, geothermal energy, low potential thermal energy of the earth, air, water, biomass, including the specially grown for energy production plants, for example, trees, as well as waste production and consumption, biogas, gas released by industrial and consumer waste in landfills and gas generated in the coal mines.

Renewable energy in Russia is largely undeveloped although there is considerable potential for renewable energy use. Geothermal energy, which is used for heating and electricity production in some regions of the Northern Caucasus and the Far East, is the most developed renewable energy source in Russia.

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ЛАЙ-ФАЙ ТЕХНОЛОГИИ СЕГОДНЯ

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A Scottish company Pure VLC is preparing a revolution in the field of digital wireless communications. Their technology Li-Fi, which is used to exchange information light, can replace the traditional data transmission on the radio (Wi-Fi). As stated on the company's website, their design allows to connect multiple devices without sacrificing performance and provides wireless speeds of up to 130 megabits per second.

As the transmitters in this system are the LEDs they quickly change the intensity of light that the human eye does not notice these fluctuations. But encoded in the blink the binary signal easily recognizes special optical sensors installed on computers or mobile devices.

«LEDs are electronic devices that can be switched on and off very quickly, «explains Harald Haas, who is a Professor at the University of Edinburgh. – Flashing light projects the data in the form of «zero» and «unit» with a very high speed and passes them to the photo detectors». Note that we are not talking about a very fast turn-off of light changes in intensity is small.

Haas first demonstrated this technology in 2011. Then he passed the video on to the computer using a table lamp. When he closed the light source by hand, the video stream stopped.

Now researchers are developing a special device that can convert an ordinary room lighting into Li-Fi network.

According to the scientist, the transmission of information via Wi-Fi is inconvenient so when the source location of the signal is in the next room, the connection quality and speed are reduced. Moreover, in places such as hotels and restaurants, which are connected to many devices, the bandwidth decreases as well.

Li-Fi does not have these problems. The special equipment synchronizes the lighting in all the rooms on a single frequency. The number of users is virtually unlimited.

The only significant disadvantage of the invention is that operation of the system requires the line of sight between the light source and receiver. In the future, the developers plan to increase the data transmission rate through Li-Fi to one Gigabit per second. Haas believes that the new technology can be widely used, for example, for communication with satellites.