



## The greenest plant in the world

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**Ilya Zavaleev, director of HPBS, green engineer.**

The plant of L'Oréal, located in Kaluga, is the first in the world to be certified to Platinum level under the most stringent certification system for the environmental and energy-efficient construction of fourth-generation LEED. This goal was achieved through an innovative approach during the design and construction of a new part of the plant.

## Digitalization Economics - global trend

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**Iurii Tabunshchikov**

In modern society, there are a number of trends on a global scale, the so-called megatrends. This includes urbanization, pollution of the environment, and, of course, the use of digital technologies in various industries - digitalization. How digitalization is reflected in the construction industry and utilities, what new opportunities are opening up for energy saving, efficient and reasonable use of energy?

## Utility systems of waste incinerators: introducing new technologies.

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**A.G. Isaeva, scientific advisor – Sysolyatin V.I.,  
consultant – Cheban A.N.**

Development of ecological and resource effective technologies of waste utilization and processing is nowadays one of the current issues. The article is devoted to the latest inventions and technologies and ways of their application in modern projects as well as some forecasts of future development of waste processing industry.

## Climate Control System in Glasshouse with Tropical Butterflies

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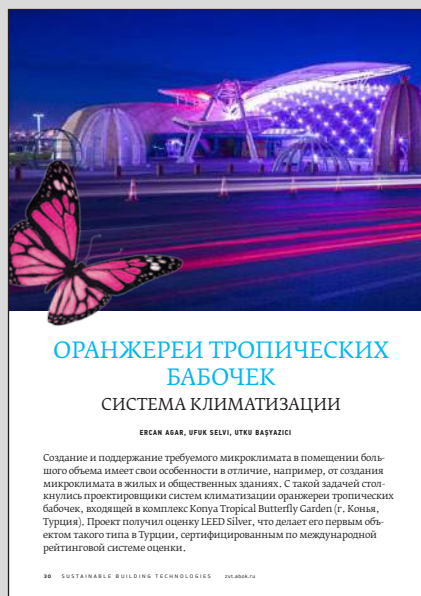
Creation and maintenance of the required micro climate in large volume spaces has its own specifics, unlike creation of micro climate in residential and public buildings. This job was tackled by designers of climate control systems in glasshouse with tropical butterflies in Konya Tropical Butterfly Garden (Konya, Turkey). The designed received LEED Silver rating, making it the first facility of such type in Turkey certified in international rating system.

## The use of energy-efficient technologies in the design of student campuses

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**M. Orlova; scientific advisor – Korsi V. E., Brodatch M. M.**

In this article, on the basis of a set of examples, the details of the implementation of projects within the concept



of energy-efficient architecture are considered. The advantages and disadvantages, as well as applicability in different geographical conditions, including Russia, are considered.

## The application of kinetic facade systems for adaptation to climatic features

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Salekh Maria

The article is devoted to the review of kinetic architecture on the example of modern innovative buildings. Various innovative systems that adapt to specific climatic conditions are considered. Determined by the degree of energy efficiency and resource savings in the operation of buildings with the use of kinetic technology compared with conventional buildings.

## Features of design and construction in the Arctic region

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Valeria Savinova

The Arctic is a harsh and inhospitable region, still little studied. The Arctic territories have an extremely low population density indicator, which affects their development. The technologies and requirements for construction in this region are outdated, and the infrastructure and buildings created have exceeded their

useful life. Obviously, the region needs new architectural ideas and techniques.

## XXXV Moscow Forum and Exhibition – «Moscow – Energy Efficient City»

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XXXV Forum and Exhibition «Moscow – Energy Efficient City» took place on 24–26 October 2018. For already a quarter of the century the Forum is demonstrating the newest trends in urban energy efficiency improvement. Such key tendency in the latest years without a doubt is high technologies. And this is why implementation of smart technologies and solution in the utilities sector along with integration of communication technologies in the city infrastructure became the central topics of discussion at the Forum.

## Interlight Moscow - more than light

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The 24th International Exhibition «Interlight Moscow powered by Light + Building» was a great success at Expocentre Fairgrounds (November 6-9, 2018). The exhibition is one of the most significant and sought-after business events in the field of lighting, electrical engineering and building automation and security systems. The magazine «ENERGY SAVING» has become an information partner of this event.