

## Results

### BSUIR participation in the 28<sup>th</sup> International Specialized Exhibition “Energy. Ecology. Energy Saving. Electro” (EnergyExpo'2024)

BSUIR took part in the 28th International Specialized Exhibition “Energy. Ecology. Energy Saving. Electro” (EnergyExpo'2024), which was held on October 15–18, 2024 in the Football Arena, Minsk, Belarus.

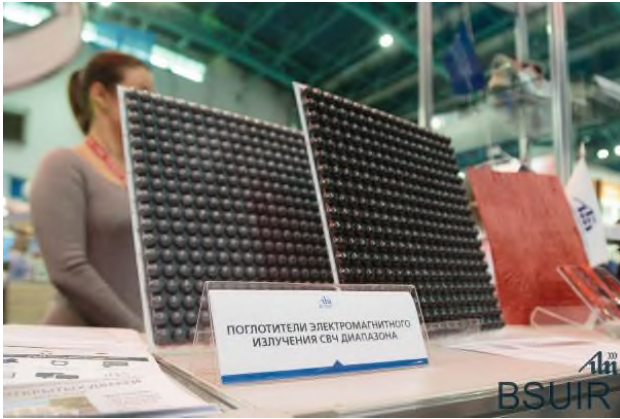
The exhibition has been held since 1995, attracting the attention of leading Belarusian and world manufacturers of equipment, technologies and materials, and is one of the largest on this topic in the CIS and Baltic countries.



BSUIR presented the latest developments of university scientists for the fields of electromagnetic ecology and energy saving: electromagnetic radiation absorbers and flexible carbon heaters.

Electromagnetic radiation absorbers were developed during the research and development work under the State Program “High-Technology and Engineering” for 2021-2025. A Eurasian patent for an invention and a patent of the Republic of Belarus for an invention were received. Different types of absorbers can be used for cladding walls, ceilings and floors of the shielded room, as well as in the creation of special clothing to protect people from exposure to electromagnetic radiation.

Flexible heaters are made out of silicone and carbon fiber of the Ural brand. The heaters have a wide range of applications: in heating systems for car batteries, seats and steering wheel, as well as in the car climate control system; for defrosting the evaporator of a refrigerator with the “No Frost” function and heating of the drip tray of the refrigerator; as a silicone heating panel in a 3D printer; in medicine for heating the operating table.



The developments presented at the exhibition provoked interest among the representatives of a number of enterprises and organizations (for example, JSC Medoborudovanie, LLC Alterf Bel, the Training Center branch of RUE Mogilevenergo, etc.). During the exhibition, negotiations were held on the possibility of implementing the presented developments in the production processes of these companies.

Following the exhibition, BSUIR was awarded a participant's diploma.