

Goal 7 . Affordable and Clean Energy.
**“Ensure access to affordable, reliable, sustainable
and modern energy for all.”**



Karazin University students participate in "Euratom Research in Action and Opportunities for Europe: Strategic Autonomy of the EU and Energy Systems of the Future"

On April 4, 2023, the European Parliament hosted a conference "Euratom Research in Action and Opportunities for Europe: EU Strategic Autonomy and Future Energy Systems" in Brussels (Belgium).

The event was chaired by the European Commissioner for Innovation, Research, Culture, Education and Youth, Mariya Gabriel, and Director General of the EU Directorate-General for Research and Innovation, Marc Lemaitre.

The conference was also attended by the Ukrainian delegation, which included, in particular, Ihor Harkusha, Head of the Department of Applied Physics and Plasma Physics at the Education and Research Institute of School of Physics and Technology, Academician of the National Academy of Sciences of Ukraine, Ihor Hirka, Director of the Education and Research Institute of School of Physics and Technology, Corresponding Member of the National Academy of Sciences of Ukraine, and graduates of the Education and Research Institute of School of Physics and Technology Serhii Fomin, Dmytro Burdeinyi, and Hanna Skrypka.



The conference focused on the development of small modular reactors, including licensing, safety and non-proliferation, supervision of power grids, fuel extraction and disposal. The main thesis is that SMRs (small modular reactors) do not replace VVER-1000s (water-water power reactors), but complement them. There are already six versions of SMRs in Europe. They should be economically viable, i.e. easy to operate and cheap.

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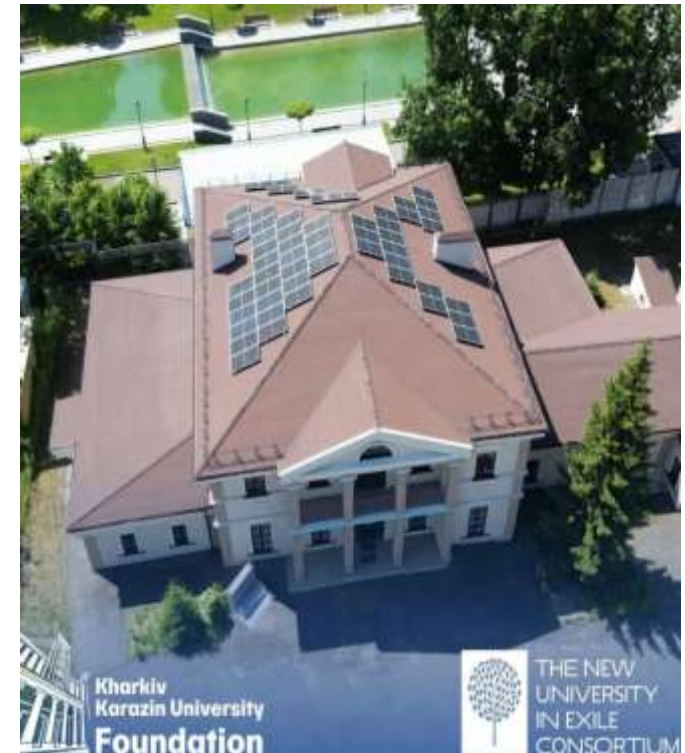
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Solar power plants are a step towards sustainable development and energy independence: the university will provide itself with energy

Hostile attacks on the city's energy infrastructure have become a new challenge for the Kharkiv Karazin University Foundation. A new task was defined - to find a way to ensure the university's energy independence from the centralized power grid.

Modern society is increasingly supporting the use of renewable energy sources. Solar energy is one of the most popular options. To this end, funds have been raised for the construction of solar power plants that will generate the optimal amount of energy.

It is important to note that the project contributes to achieving one of the main goals of the UN Sustainable Development Goals - affordable and clean energy. Solar power plants can reduce emissions of harmful substances and carbon dioxide, which will help improve air quality and conserve natural resources. In addition, dependence on traditional energy sources will be eliminated.



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