

# Press

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## **Modern energy technology in a historic building: Inauguration of the Maszynownia Żywiółów project at the Tarnowskie Góry silver mine**

- **Ice energy storage system and heat pump as a heating system from Viessmann Climate Solutions**
- **Heating with ice in a UNESCO World Heritage Site**

**Tarnowskie Góry/Allendorf (Eder) 15.08.2024** – The Maszynownia Żywiółów project was realized in the heart of Tarnowskie Góry on the site of the historic silver mine and was recently officially inaugurated. This project is an example of the integration of modern technologies and renewable energy sources with the protection of cultural heritage. Both ecological and economic aspects were taken into account. The silver mine is on the UNESCO World Heritage List. The town of Tarnowskie Góry is located around 200 kilometers east of Wrocław. A key element of the project is an ice energy storage system, which was realized by [Viessmann Climate Solutions](#). Viessmann Climate Solutions is part of Carrier Global Corporation (NYSE: CARR), a global leader in intelligent climate and energy solutions.

At the announcement of this project, Damian Skoruppa, expert for energy storage and the use of crystallization energy from Viessmann Climate Solutions, introduced the technology of ice energy storage with new products from SolarEis Poland. He emphasized the importance of the process of energy transformation for Poland and the rest of the world.

Visitors, especially children and young people, can experience history at the site and at the same time learn about renewable energy. With fascinating media and lectures, the tour of the historic silver mine becomes an event that visitors will never forget, said the operators of the silver mine. The aim of the Maszynownia Żywiółów project is to educate and disseminate knowledge about various energy sources such as solar, wind, water and geothermal energy.

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The project demonstrates the practical applications of these energy sources, which are crucial for the future of sustainable construction and for the development of the heating industry.

The central component of the project is a system with an output of 17 kW, which is based on the Vitocal 200-G brine heat pump and is therefore suitable for supplying up to two single-family homes with heat. This system is supported by an ice energy storage system from Viessmann Climate Solutions, which was installed and will be maintained by SolarEis Poland. This ice energy storage system has a diameter of three meters and a volume of 20,000 liters, supplemented by the Hurricane SLA250 L solar air absorber. The system is managed by the Hydraulic Manager HM17 kW, which ensures optimum utilization of the stored energy for heating and cooling the building and also demonstrates the effectiveness of thermal energy storage.

The Maszynownia Żywiłów project not only proves that modern energy technologies can work effectively with the protection of cultural heritage, but also serves as a model for other historic sites in Europe. The pioneering use of ice energy storage technology in a UNESCO World Heritage Site opens up completely new possibilities for the application of similar systems in other historic properties, while promoting sustainable energy and heritage protection on a global scale. This initiative, supported by companies such as Viessmann Climate Solutions and SolarEis Poland, in collaboration with Sebastian Walerysiak, Heiko Lüdemann and Damian Skoruppa (all from Viessmann Climate Solutions), shows how collaboration on a large scale can create innovative solutions in the energy sector.

## **About Viessmann Climate Solutions**

Founded in 1917 as a heating technology manufacturer, Viessmann Climate Solutions is today a global leader in efficient and systems-based climate (heating, cooling, water and air quality) and renewable energy solutions. The integrated solution portfolio of Viessmann Climate Solutions seamlessly connects products and systems via digital platforms and services to a holistic climate and energy solution, creating a safe and reliable environment for users.

Viessmann Climate Solutions is part of Carrier Global Corporation, a global leading provider of

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intelligent climate and energy solutions that will become relevant for our planet and its inhabitants in the future. Further information at <https://www.viessmann-climatesolutions.com/>.



**Image 1:** Official inauguration of the Maszynownia Żywiołów project in the historic silver mine of Tarnowskie Góry: the modern plant integrates innovative energy technologies and renewable energy sources while protecting the cultural heritage.

Photo: Solareis Poland



**Image 2:**

The Vitocal 200-G brine heat pump is the central component of the project. With an output of 17 kW, it is suitable for supplying heat to up to two detached houses.

Photo: Solareis Poland

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