

The unique management of rainwater in the logistics area on D1 won an award

Prague, December 27, 2023 – Rainwater is already quite often used in modern buildings, for example for watering outdoor greenery or as so-called gray water. The developer UDI Group was the first in the Czech Republic to purify rainwater from roofs and use it as drinking water. This unique solution, which supplies drinking water to three quarters of the entire logistics area of Sázava Logistics Park on D1 in the Czech Republic, has now won a silver medal in the Impuls competition of the Czech professional magazine Logistika. The solution also caught the attention of the students of the Integrated Secondary Technical School in Benešov, who chose it for their student project as part of the Enersol international competition.



"Water is irreplaceable, which is why we focused on managing it. We invested 20 million crowns in the treatment plant, which is capable of producing 8,700 m³ of drinking water per year from rainwater, which we capture on one of the roofs of the site," explained the strategy director of developer UDI Group, Marcela Fialková. *"The device has proven itself very well for us. That is why we are considering using a similar solution in the newly built Logistics*

Center Přebýšov on D5. There we will either use a similar treatment plant, or we will use the collected rainwater at least as so-called gray water," she added.

You can find a video on water management [here](#)

Rainwater from the largest of the complex's roofs is collected in an accumulation tank. It is then pumped to a treatment plant, where it is adjusted to drinking water quality according to the relevant decree. *"The water is first mechanically purified, then it continues through a series of pressure filters with different media and membrane ultrafiltration technology, which is able to trap viruses and bacteria. The treated water then passes through a filter with semi-burnt dolomite, where it is mineralized. Subsequently, it is hygienically secured, and then waits in underground tanks for use in the bathrooms and kitchens of the logistics area,"* explained technologist Lucie Báborská from Asio Tech, who designed the solution for UDI Group. The

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About us – UDI Group is an international developer that builds residential, office and industrial projects in the Czech Republic and other European countries and in Latin America. It focuses on complex development that combines functions - housing, offices and shops. It is currently preparing 21 projects, the sales of which will reach 2,2 billion Euros in the next five years.



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uniqueness of the processing plant and its scope and efficiency were recognized by the judges of the Impuls professional competition of czech magazine Logistika with the 2nd prize in the Top development solution category.

The unique solution also caught the attention of the students of the Integrated Secondary Technical School in Benešov, who chose the project located in the nearby region for the Enersol international environmental competition. *"This is a competition that has a 20-year tradition. It deals with all kinds of savings, from energy to water to recycling and renewable resources,"* explained the school's electrical teacher Milan Kalous. *"We chose the project because it is unique. It is close to our school and such a solution is the only one in the country. Capturing water so it doesn't get wasted and then using it again is honestly genius,"* said school student and Enersol competition participant Richard Kohel during a tour of the Sázava Logistics Park.

"We offered the school not only cooperation in the form of detailed information about the treatment plant, but we also arranged for around thirty students an excursion to the logistics centre and a meeting with experts who participated in both the design, construction and implementation, as well as with those who operate the entire treatment plant today. The students had the opportunity to ask everything they were interested in not only about water management, but also about the details of the operation of such a large logistics complex. Of course, they also had the chance to taste the treated water from the rainwater in the kitchen of one of the tenants - the sorting plant of the logistics company WEDO. The students were quite surprised by the size of the area and the efficiency of the entire operation," added the director of the developer's strategy. *"We keep our fingers crossed for the students and wish them a successful representation,"* added Fialková. Selected representatives of the school will present the project to the jury of the Enersol competition next spring.

The Sázava Logistics Park was inaugurated in June 2023. The UDI Group built four halls here with a total area of 50,000 m². Today, they house the sorting plant of logistics companies WEDO, Marimex, Emons and Nagel Group. The developer invested over one billion crowns in the complex, which has BREEAM environmental certification.

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