



Superb, ultra-modern, new logistics center in Slovenia, powered with renewable energy.



A brand new, 28,000 m², logistics complex, with 16,000 m² of storage space, near Ljubljana, the Slovenian capital: ultra-modern, ultra-efficient, ultra-flexible and powered with renewable energy from Thermia ground source heat pumps.



New logistics center

The Bemit Group is a highly dynamic organisation that provides a wide range of services to companies both within and outside the group, including comprehensive logistics services. The ongoing success and constant growth of the Bemit Group and the companies it serves has led to increased demand for logistics services, particularly state-of-the-art storage for all different types of products and materials.

Given the general lack of high-quality storage and linked systems, the Bemit Group decided to build a completely new logistics center and commissioned Merit International to manage the project.

'Due to the constant growth of the business of companies within the Bemit Group and the request from external partners, their existing warehouse in Ljubljana became too small. Since there were no suitable buildings on the market with sufficient storage areas for

rent, we worked with their real estate company, Bekra, to build a new logistics centre in an industrial area in Grosuplje.' Anton Pleško – Director, Merit International

State-of-the-art facility

At 16,000 m² of storage space, which corresponds to 5,000 pallet spaces, LC Bekra is one of the largest logistics centers in the region. It is also one of the most modern. The new logistics center benefits from the very latest

equipment and technology. In logistics, temperature control is critical, not only for products that are stored, such as food products, but also for people. The indoor climate is ideal, all year round. Energy is vital to this.

Green energy

Atlas Trading d.o.o., Thermia's reseller in Slovenia, recommended to Bekra a modular solution with four Thermia Mega XL ground source heat pumps, each with a





modulated capacity of 25-100 kW. Hence, the system delivers a continuously variable output from 25-400 kW, meeting all the heating and cooling needs of the building. The source of energy is underground water, which is pumped from an aquifer in the bedrock through two wells. The system is highly efficient, with an annual efficiency factor that averages 5. The system does not require special maintenance and is fully integrated into the

building's management system, which enables all functions to be operated and managed remotely.

Design matters

A key part of the design of the system involved producing energy demand calculations for the building. Despite the relatively high heat and cooling requirements identified in the calculation program, based on our experience, we designed a slightly smaller system, but one which is



Fact Box:

Investor: Bekra logistics

Location: Grosuplje, Slovenia near Ljubljana

Year of installation: 2020

Characteristics of the building

- New construction, warehouse and office building
- Building size: 16,100 m²
- Insulation: facade panels

Applied solution:

- 4x Thermia Mega XL (21 – 88 kW) ground source heat pumps in cascade
- Ground water well as energy source

Heating capacity: 400 kW

Heat/cool distribution:

- Radiators in the warehouse
- Fan coils and underfloor heating in the offices



Logistic Center Bekra is leading edge in low-carbon heating and cooling. 80% of energy is renewable and comes from ground water.

scalable, to enable expansion if required. The system is modular, so capacity can be increased simply by adding modular units: for example, another 25-100 kW heat pump would increase capacity from 4 x 100 kW to 5 x 100 kW. The scalability of the system was considered a key benefit.

The wells were drilled by a specialist drilling team that followed and achieved the targeted groundwater intake and discharge through five wells: two water intake wells, two discharge wells and one combined intake / discharge well.

Installation & maintenance

The installation of the system hydraulics, as well as the electrical installation, was carried out under

Atlas engineers' supervision by specialist installation contractors.

Throughout all phases of the project, from launch preparation, delivering & positioning the equipment on site, pre-installation planning, installation, testing, commissioning and optimizing, to the completion of the project, the process was seamless, with all teams working well together.

'In the Bekra logistics project, the contractors were extremely professional, and the result was a fast and smooth start-up, where we first commissioned one of the four heat pumps very quickly, and, in the second phase, when the IP network was set up through which the heat pumps communicate with each other, we only had to integrate the remaining three units.' - said

Yasin Jodeh - Managing Director, Atlas Trading d.o.o.

During the installation, the Atlas team helped the technical staff on the investor side understand the features of the heat pump system and the way in which it is fully integrated into the building management system, which enables full control and management of all system functions.

'From commissioning up to today, they have required very little help from us, we have resolved all issues remotely and the system has been working flawlessly since the first day it went live.' - added Yasin Jodeh

The project was delivered on time, on budget and to the highest possible specification.



ATLAS TRADING - YOUR EXPERIENCED PARTNER IN RENEWABLE ENERGY IN SLOVENIA

Atlas Trading d.o.o is a leading Slovenian company in the distribution and installation of energy-efficient heating and cooling systems. A family company, it is known for its innovation and finding solutions outside the established frameworks.

"A big advantage is the flexibility of our tailor-made solutions. Since the company was founded in the late 1980s, we have repeatedly launched onto the market innovative, high-quality and efficient products. This remains the reason why we are a pioneer in the heating and cooling industry and why we represent some of the most well-known brands for energy efficient heating and cooling on the market today", explained



Yasin Jodeh, Managing Director at Atlas Trading d.o.o.

Examining the existing situation, Atlas Trading recommends a system solution with correct sizing,

a comprehensively prepared execution plan and a complete operational test run, with all the work carefully supervised to bring the system into full operation.



Toplo pozimi.
Hladno poleti.

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For the last 50 years, we have dedicated all our resources and knowledge to developing and endlessly refining one product: the heat pump. Our focus on geothermal energy has given us world leading knowledge in heat pump technology.



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Developing truly sustainable renewable energy solutions can only be achieved with passionate, dedicated, and uncompromising experts. Some of Europe's most highly qualified engineers can be found in our own R&D center.



Born in Sweden

All our products are designed, manufactured, and tested in Sweden using the latest technology and the highest quality components. All components inside our ground source heat pumps are made in Europe by world-leading industry specialists.



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