



Provincial Specialist Complex of  
Healthcare Institutions of  
Lung Diseases and Tuberculosis  
in Wolica near Kalisz, Poland

## Supporting the improvement of climate resilience at the Provincial Specialist Complex of Healthcare Institutions of Lung Diseases and Tuberculosis in Wolica near Kalisz – summary of 2022

Climate resilience has become an important element of the Wolica hospital's strategy. We understand the risks and vulnerabilities the hospital faces due to climate change and are making the necessary changes to protect our patients and staff. By becoming more resilient, we can help prepare for the increasing impacts of climate change. However, before we embark on this year's investment plan and the activities planned as part of preventive health care, we would like to provide a summary of the past year.

2022 was full of investments to reduce the carbon footprint and waste, digitise the facility, reduce the paper consumption and strengthen energy security.

The hospital completed the following tasks:

1. a **Pulmonary Rehabilitation Unit** for, among other things, patients with complications caused by SARS-CoV-2 infection, was opened. It was built using modular technology to reduce the carbon footprint and has a total area of 800m<sup>2</sup>, while the **Outpatient Clinic** for Lung Diseases and Tuberculosis **was relocated** to the hospital site;
2. **construction** began on a **modular link** between the above building and the existing hospital building, with a total area of approximately 300m<sup>2</sup>;
3. all the roofs of the buildings belonging to the hospital have been covered with photovoltaic panels, and 2 ground-mounted installations have also been created. The installation consists of 458 modules. The total capacity of the **PV installation is 200kWp**;
4. a **145kW generator** was commissioned – this increased the power supply to the back-up circuits while ensuring patient safety and continuity of the hospital's operations in emergency situations;
5. a rainwater **storage and irrigation system for green areas** was installed – the retention system will enable up to 450 m<sup>3</sup> of water to be retained on an annual basis where it falls as rain and reused to irrigate the 700 m<sup>2</sup> of land around the hospital building;
6. **the vacuum unit was replaced and the Vacuum Pump Room was modernised**, optimising the vacuum supply processes to the wards and improving the energy efficiency of the system;
7. **project documentation** was prepared for the comprehensive renovation of hospital wards to reduce electricity, gas and water consumption and improve living conditions for patients;
8. **the dissecting room was modernised and the refrigeration equipment was replaced** with mortuary refrigerators running on an environmentally friendly refrigerant – thus improving the energy efficiency of the building and eliminating freon;
9. **the Eskulap IT system** was upgraded to a browser-based version (web version) with the migration of all existing licences and the functionality of the system was extended to include the area of Doctors' Desks – thus introducing electronic document circulation and reducing paper consumption;
10. **the oxygen tank** with a capacity of 3 tonnes was replaced with a 6-tonne tank, thus reducing the frequency of deliveries and increasing patient safety;

11. a **biodegradable waste composting facility** was purchased, reducing food waste by 90% per year;
12. an **EDC Plus cabinet for storing bronchoscopy apparatus** was purchased to optimise storage, washing and drying of medical equipment;
13. **stocks of disinfectants, protective materials and personal protective equipment** were collected;
14. through the purchase of specialised software and IT equipment, the **cyber security** of the facility has been increased;
15. a grant was obtained for the project entitled “Accessibility Plus for Health in Voivodship Specialist Complex of Health Care Institutions for Lung Diseases and Tuberculosis in Wolica near Kalisz” aimed at **increasing the level of architectural, ICT and digital accessibility of the facility to meet the needs of people with special needs**, including those with disabilities;
16. we joined the **Global Green and Healthy Hospitals** network,
17. the **1st International Conference** on “The Role of Green Hospitals in Counteracting Climate Change” was held;
18. in cooperation with the UN Global Network Poland and Philips Health Care, we co-produced the **Green Hospitals report**, which was presented at the 11th edition of the World Urban Forum (**WUF11**); the green hospital policy and achievements of the Wolica hospital were also presented at the PFSz Autumn Programme Conference (**JKP**);
19. an inter-state **agreement** was signed **with a hospital in Greece** to promote environmentally sustainable activities that can have a positive impact on reducing the carbon footprint, limiting the amount of waste generated and making rational use of resources;
20. patient **education campaigns** were conducted on the proper storage of cytostatic drugs used in the lung cancer drug programme administered orally at home and on proper waste segregation, and a cyclical medical picnic entitled: “Saturday for Health” was held. In addition, a number of outreach activities were organised, including free chest X-ray examinations for the local community;
21. procedures have been developed related to, inter alia, environmental management, a water safety plan, in case of a possible climatic disaster, a water consumption management plan including a stock plan for drinking water in case of a crisis, a stock plan for essential medical products

The total measurable value of the projects implemented amounted to nearly PLN 15.5 million in 2022, of which grants obtained from external funds amounted to more than PLN 15.4 million. **Wolica Hospital is actively working to reduce the environmental impact of the health sector and improve public and environmental health.**



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-summary 2022



Provincial Specialist Complex of Healthcare Institutions of Lung Diseases and Tuberculosis in Wolica -conferences, prevention



Provincial Specialist Complex of Healthcare Institutions of Lung Diseases and Tuberculosis in Wolica -investments

