

**Zwack Unicum Plc.**

**YEARLY RESULTS ACHIEVED WITH MEASURES OF  
ENERGY EFFICIENCY**

**2022**





This report was made on behalf of Zwack Unicum Plc. (1095 Budapest, Soroksári road 26.)

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## 1. TOTAL ENERGY CONSUMPTION

This document was made for Zwack Unicum Plc. (1095 Budapest, Soroksári road 95.) on the basis of the following laws and regulations: the 2015. LVII. Law of energy efficiency, the 122/2015. (V. 26.) Government decree, and the 2/2017. (II. 16.) decree by the Hungarian Energy and Utility Regulation Bureau.

Fig. 1. presents the distribution of the total energy consumption by energy sources in 2022.

2022

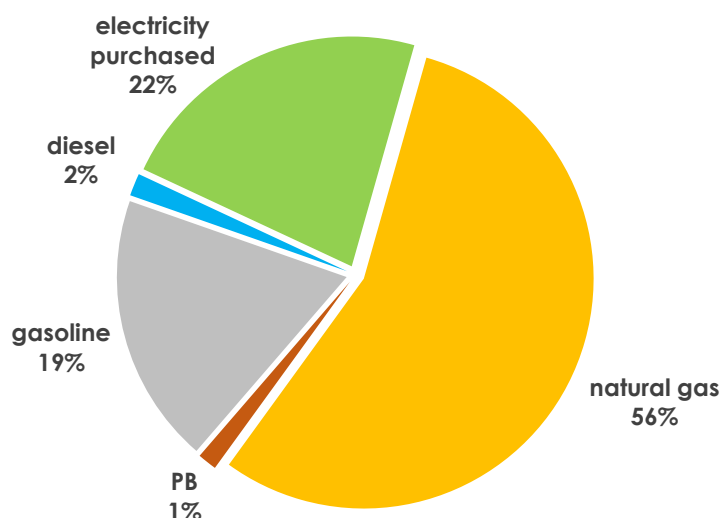
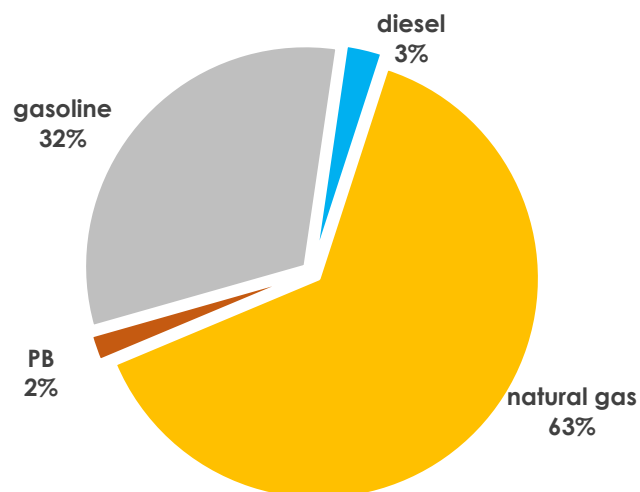


Fig. 1. Distribution of the total yearly energy consumption by energy sources

Fig. 2. presents the distribution of carbon dioxide emission amongst the used energy sources.

2022



In the name of energy consciousness, Zwack Unicum Plc. has been buying green electricity since September 2019, so the carbon dioxide emissions associated with electricity are zero.

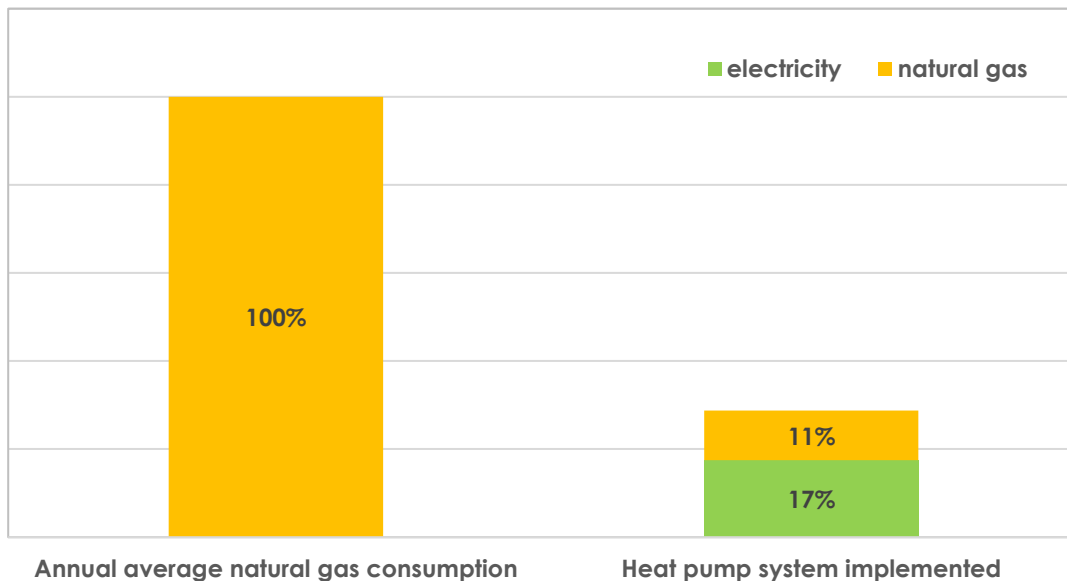
## 2. MEASURES TO INCREASING ENERGY EFFICIENCY

The following table shows the energy efficiency measures to be implemented in 2022. The extent of the planned energy savings show how much reduction in the use of the given energy carrier is expected as a result of each measure.

**Table 1.** Measures to increasing energy efficiency

	Measures taken	Location	Energy source	Extent of the planned energy savings	Realisation date
1.	Replacement of liquid cooler	Soroksári road	Purchased electricity	1,45%	2022.12.15

In addition to the measure(s) implemented in 2022, a geothermal heat pump system was completed in February 2023, complemented by a solar farm to meet the energy needs of the former. The completed heat pump system is expected to replace the use of natural gas for comfort purposes for a significant part of the year.



In the figure above, we have assumed 100% natural gas consumption before the heat pump system was installed. The new system is expected to use 72% less energy at the Dunaharaszti site. Thus, future energy use will drop to about 28%, of which natural gas will represent 11% and electricity 17%.

### 3. ATTITUDE FORMATION ACTIVITIES

We believe that environmental education and attitude formation have a prominent role in solving the environmental problems our society is facing these days. We can preserve and protect the health of our environment by steering the consumer habits into a positive direction.

In the spirit of this we would like to raise awareness together and draw the attention of the people to the little things and practices we can all do, as well as to the conscious shopping and consumption which will allow each and every one of us to make our own environment and that of our peers more and more liveable for ourselves and our peers in the long term.

**Table 2.** Attitude formation activities

Description of activities	Location	Frequency, per year	Participants reached, cap
Installing a digital sign or smart TV	Unicum and Dunaharaszti factory	1	253
Annual training for factory and office staff, highlighting the Company's renewable energy targets	all sites	1	253

## 4. ENERGY SPECIALIST

The AlfaPed, Developer, Manufacturer and Service Provider Ltd has been present on the domestic market since

2005. In the more than 16 years since its establishment, we have maintained our belief in professionalism and instead of growth, we have built a team of expert engineers to cover the full spectrum of energy audits and inspections. We have recently carried out energy loss assessment work for a number of multinational and mid sized companies, and through our studies and surveys we have sought to establish the direction and scope of

energy improvements. Our work is characterised by complexity and a systems approach, but we also carry out

Conscious energy management processes based on energy loss mapping and the resulting energy-efficient operation are in the interest and responsibility of businesses. The widespread dissemination of these processes - based on the EU directive - has been greatly facilitated by the Hungarian legislation for large companies with the

LVII Act of 2015. With our experienced professionals, we have joined the process and supported the energy efficiency efforts of many large domestic companies in recent years by providing energy audits and ISO 50001 implementation and maintenance. Our experts have passed the mandatory auditor exam of the Hungarian Energy

and Public Utility Regulatory Office and we are also qualified to carry out energy audits.

Our references from the past 16 years include energy audits of several multinational companies such as BOSCH,

BPW, BUSCH, etc, and we are currently acting as energy consultant for ARCONIC, BOSCH, CONTINENTAL and several of our large corporate partners. we have also carried out energy audits for several of our clients such as BOSCH, LUFTHANSA, HYDRO and RTL. we also provide EER consulting services for several of our partners such as

In addition to energy auditing and energy consultancy services, our company also offers a range of value-added

- audit service enabling the use of corporate tax,
- EKR advice and certification
- development of an energy development plan and/or strategy,
- instrumental review,
- implementation and support of a standardised energy management system (ISO 50001),
- development of a real estate development concept,
- building energy consultancy
- feasibility study,
- education, awareness-raising
- LEAN based energy workshop.