

Zwack Unicum Plc.

RESULTS OF ENERGY EFFICIENCY MEASURES

2020





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.) according to 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 Public Utility Regulatory Authority.

Fig. 1. presents the distribution of the total energy consumption by energy sources in 2020.

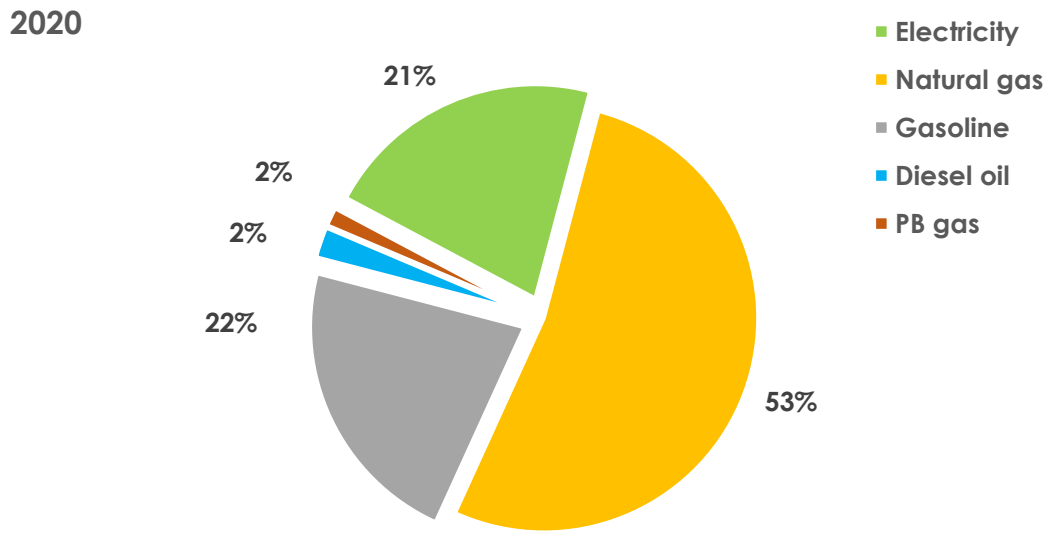


Fig. 1. Distribution of the total yearly energy consumption by energy sources

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

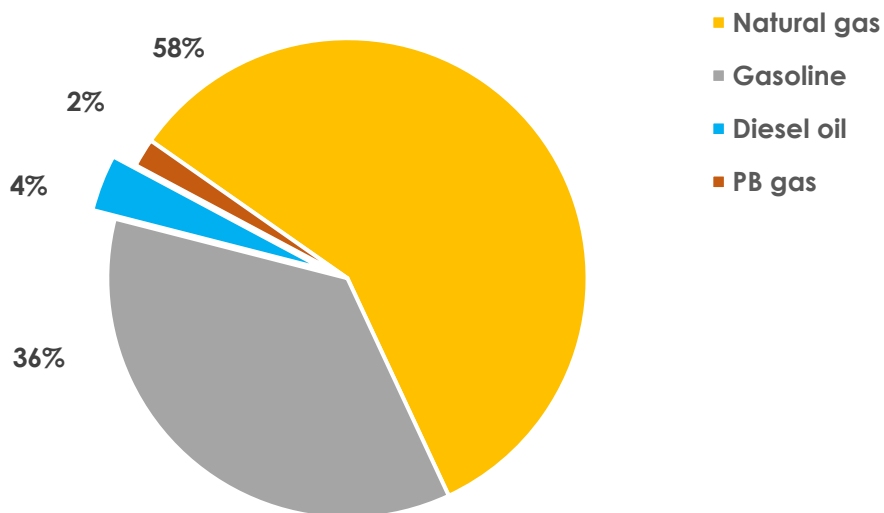


Fig. 2. Distribution of the carbon dioxide emission by energy sources

In the name of energy awareness, the Zwack Unicum Plc. has been purchasing green electricity since September 2019 thus the corporate's CO₂-emission regarding the electricity consumption is zero since September.

2. MEASURES TO INCREASING ENERGY EFFICIENCY

The following waterfall diagrams show the effect of each measure taken to increase the energy efficiency on the yearly energy consumption. By "Base" is meant the current energy consumption of each energy source, while by "Expected" is meant the expected estimated amount of energy that will have been consumed with each of the implemented measures considered.

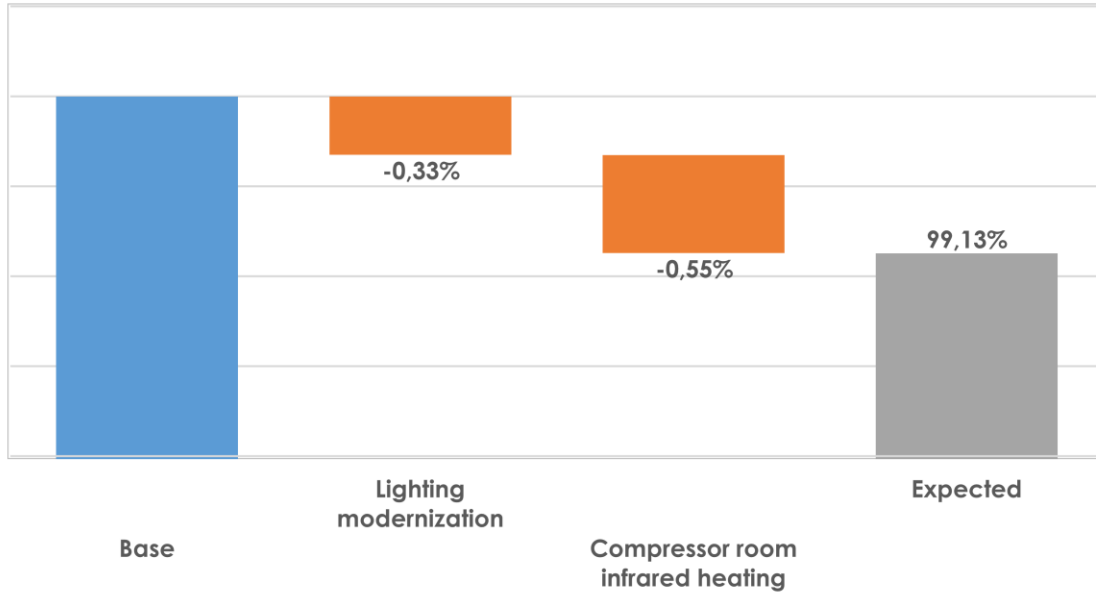


Fig. 3. Effects of the implemented measures on the electricity consumption in the building subarea

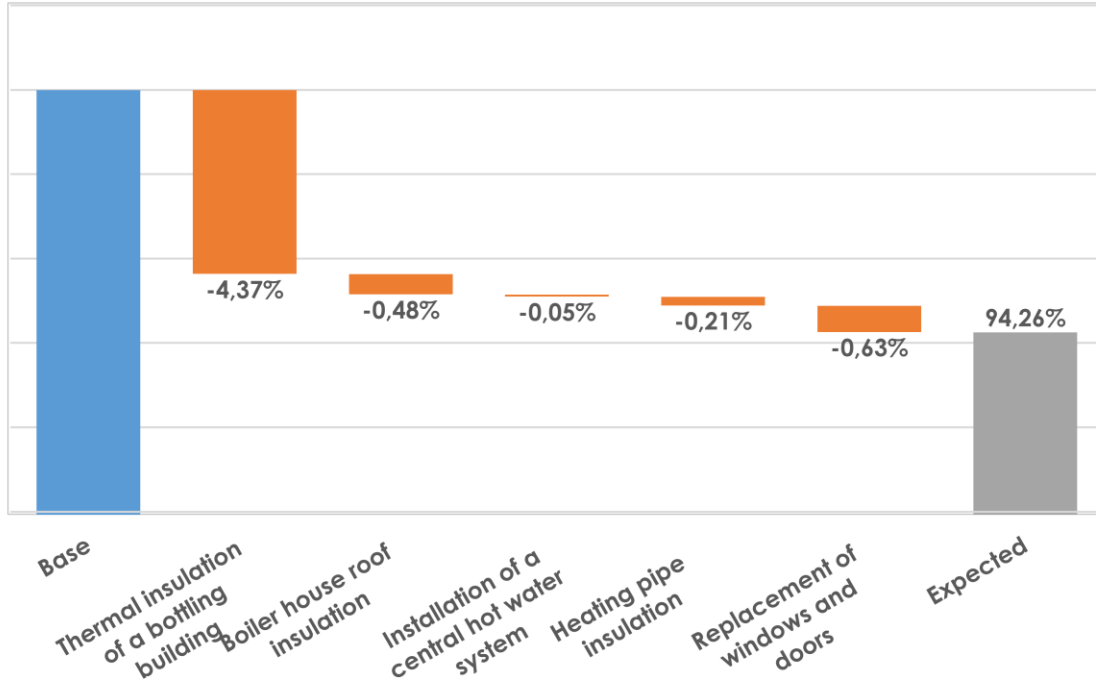


Fig. 4. Effects of the implemented measures on the natural gas consumption in the technology subarea

The following table shows which of the above measures are related to which site and when they were implemented. The measures implemented in 2020 are related to the building sub-area.

Table 1. Energy efficiency increasing measures

Nr.	Measures taken	Site	Energy source	Extent of the planned energy savings	Date of implementation
1.	Lighting modernization	Dunaharaszti	Electricity	-0,33%	2020.06.07
2.	Thermal insulation of a bottling building	Kecskemét	Natural gas	-4,37%	2020.07.15
3.	Boiler house roof insulation	Kecskemét	Natural gas	-0,48%	2020.04.02
4.	Installation of a central hot water system	Kecskemét	Natural gas	-0,05%	2020.11.19
5.	Compressor room infrared heating	Kecskemét	Electricity	-0,55%	2020.12.02
6.	Heating pipe insulation	Kecskemét	Natural gas	-0,21%	2020.11.19
7.	Replacement of windows and doors	Budapest	Natural gas	-0,63%	2020.11.09

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 one of us to make our environment more and more liveable for ourselves and our peers in the long term.

Table 2. Attitude formation activities

Description of activities	Frequency, per year	Participants reached, cap
ISO 50001:2018 standard changeover training	1	250
Energy efficiency education (hybrid or electric car drive)	1	250
Energy themed communication on internal billboards (TV)	1	250

4.ENERGY SPECIALIST

AlfaPed Llc. is on the Hungarian market since 2005. Since the foundation we preserved our faith in professional work, and instead of fast growing an expert team was built up to cover a wide range of energy audits and verification. In the last years energy loss explorations and studies were completed at several multinational companies. We supported our partners in establishing their development in energy area with measurements and assessments. Our works are complex, based on system approach, but we carry out focused investigations, if it meets our partner's needs better.

The energy efficient operation is the interest and responsibility of the companies, which is founded on conscious energy management based on energy loss investigations. The widespread use of these processes - based on the EU directive - was the result of the Hungarian law nr. LVII of 2015, which raised the energy audit to a mandatory level for large companies. Through our company's experienced professionals, we have also joined these processes, with supporting the energy efficiency aspirations of many large Hungarian companies in recent years through energy audits and the introduction and maintenance of the ISO 50001 system. Our specialists passed the mandatory auditor exam announced by the Hungarian Energy and Public Utility Regulatory Authority, and we also obtained the right to perform an energy audit.

From the last 15 years our references include energy loss investigations of several multinational companies, like MOL, IKEA, NESTLÉ, BPW, etc., and we currently provide energy consulting services to AUDI, ARCONIC, BOSCH, CONTINENTAL and several of our large company partners. We also performed energy audits for several of our clients like BOSCH, LUFTHANSA, SANOFI CHINOIN, UNICEF and ZWACK. Among our references of a large number of sites, our activities as a subcontractor of Cordi Zrt. on behalf of TESCO-GLOBAL department stores Zrt., Fusion Investment Zrt. and Magyar Posta Zrt. are worth mentioning.

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

- instrumental review,
- audit service enabling the use of corporate tax for energy efficiency measures,
- development of an energy or sustainability plan and/or strategy,
- development of a property development concept,
- feasibility study,
- implementation and support of a standardised energy management system (ISO 50001),
- LEAN based energy workshop.