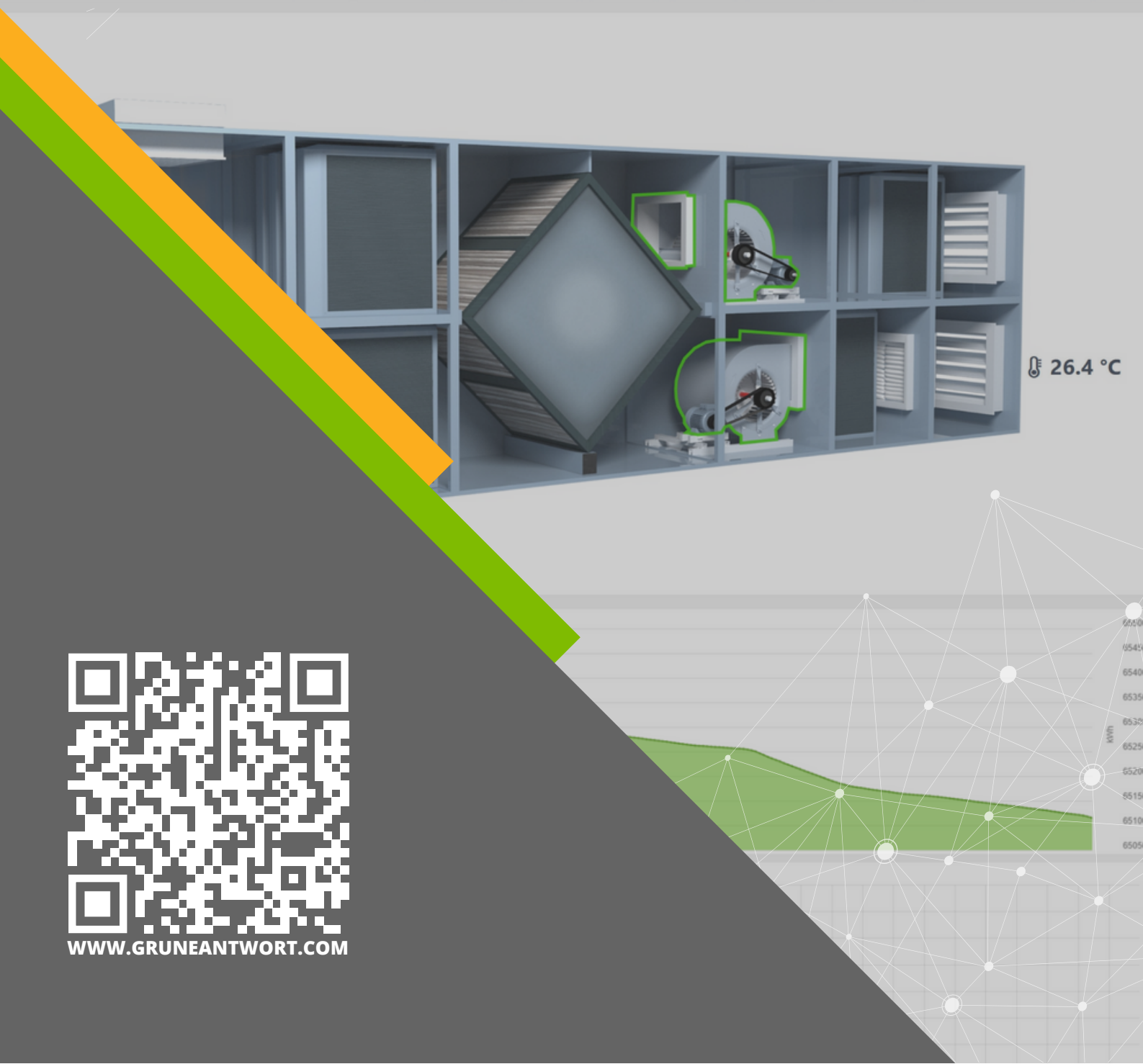




GA

GRÜNE ANTWORT

#INTELLIGENTSOLUTIONS



26.4 °C



WWW.GRUNEANTWORT.COM

ENERGY SAVINGS
OF UP TO **30%!**

YOUR INVESTMENT
CAN PAY FOR ITSELF
**IN 6
MONTHS!**



0.07 kWh

6.96 kW

2-es energy consumption

0.07 kWh

7 Jul 9:30 PM - 7 Jul 9:45 PM

0.07 kWh

6.97 kW

0.07 kWh

6.95 kW

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The aim of Grüne Antwort Ltd. is to enable any company - whether it is a company with an HQ or a factory employing hundreds of people - to face up to energy prices and optimize its consumption.

WHAT SOLUTIONS ARE WE USING TO REDUCE ENERGY CONSUMPTION?

The main profile of Grüne Antwort Ltd. is the system integration in the industrial field, the development and implementation of customized building automation, and building management systems.

- BMS - BUILDING MANAGEMENT SYSTEM
- PMS - POWER MONITORING SYSTEM
- IRMA - INTELLIGENT REAL-TIME MAINTENANCE ASSISTANT
- STANDARD SIEMENS BUILDING AUTOMATION
- ELECTRICAL SUB-METERING
- OPTIMIZING CONTRACTED POWER
- CUSTOM SYSTEM DEVELOPMENT
- 3D SURVEY OF BUILDINGS BY DRONE
- ELECTRICAL SWITCH CABINET MANUFACTURING
- ELECTRICAL INSTALLATION
- ELECTRIC CAR CHARGER



Electrical sub-metering and PMS - power monitoring system



Drone survey and IRMA maintenance system



With our portfolio, you can save up to 30% on electricity, and your investment can pay for itself in 12-24 months!



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BMS - BUILDING MANAGEMENT SYSTEM

One of the main products of our company is the Building Management System (BMS), which we develop individually based on the needs of our customers. With the help of the system, most of the standard mechanical systems in the factory area can be accessed and monitored remotely. In many industrial and office buildings, mechanical systems dating back several decades are mixed with modern elements of today. In the course of our work, we explore the possibility of linking old and new systems, and we implement complete integration after planning. Our aim is to keep most of the elements of the previously installed equipment, but if necessary, we also install new ones.



PMS - DATA GATHERING SYSTEM

We have created our latest product with a focus on reducing electricity consumption. The PMS data gathering system allows the continuous monitoring and management of each sub-meter according to consumption, which is required by the MEKH decree. The interactive and fully customizable interface not only allows you to create and store reports in accordance with the decision but also to monitor the committed performance. Setting alerts makes it easy to control the consumption of electric meters.



IRMA - INTELLIGENT REAL-TIME MAINTENANCE ASSISTANT

Our company's unique software product is IRMA (Intelligent Real-Time Maintenance Assistant), which greatly helps in device monitoring. Be it any equipment maintenance, IRMA is guaranteed to make the job easier. It is also possible to access it in the form of a mobile application, so all the information about the given device can be easily accessed with the help of a QR code. Be it a maintenance planner, resource management, cycle time setting, or traceable device history.



**UP TO 30%
ELECTRICITY
SAVINGS**



**10-20%
COST
REDUCTION**



**10-20%
EFFICIENCY
IMPROVEMENT**



**5-10%
PRODUCTIVITY
GROWTH**



STANDARD SIEMENS BUILDING AUTOMATION

As a Siemens partner, our company undertakes the installation of standard Siemens building automation systems in addition to individual self-developed systems. We recommend our Siemens systems for the mechanical systems of the newly established factories and plants, as well as the sites under renovation. The DESIGO building automation system is flexible, open, and fully freely programmable, yet easy to configure and operate to the requirements of a specific system.

Solution Partner

Building Technologies



ELECTRICAL SUB-METERING



In 2020 the MEKH 1/2020 (I.16) Decree was published, on the rules for the installation of electricity sub-meters. The companies obliged to use a specialist to operate an electricity sub-meter have been provided for in Act LVII of 2015 on Energy Efficiency since 1 January 2018, but in the absence of an implementing regulation, the obligation could not be enforced. This was changed by MEKH Decree 1/2020. (I. 16.). Our company provides compliance solutions for all obligated parties through the distribution of the Siemens PAC product family and the related self-developed software.

OPTIMIZING CONTRACTED POWER

One of the biggest problems in factories and plants today, and even in companies with HQs, is that they use too much electricity. By optimizing contracted power and smoothing consumption curves, electricity costs can be significantly reduced. Our product also offers a monitoring and/or intervention environment for this.



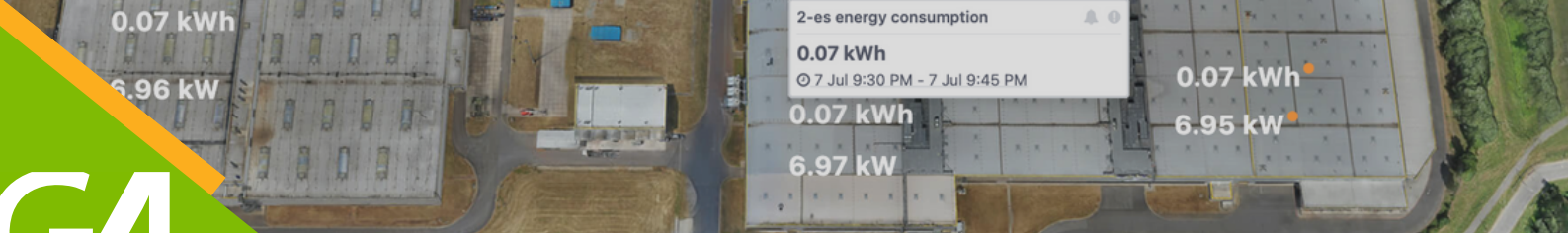
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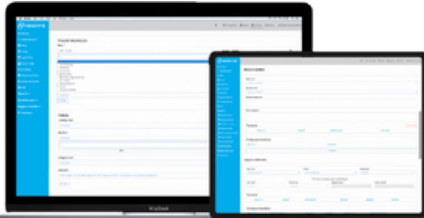
**5-10%
PRODUCTIVITY
GROWTH**

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CUSTOM SYSTEM DEVELOPMENT

We also deal with the development of custom web-based systems. Our development team finds the solution for every individual need to make our customers' work easier. First, we carry out several rounds of user needs assessment, for which the necessary technologies and technical solutions are selected. Later, at development milestones, we present the completed functionalities to the Customer. Our references include, for example, the development of a medical appointment system, inventory software, and also a corporate governance system.



3D SURVEY OF BUILDINGS BY DRONE

Our team also undertakes surveys of buildings, factories, and other facilities with the help of a DJI Mavic 2 Pro drone to create realistic 3D space models. With this technique and taking into account the needs of our customers, we can create much more user-friendly interfaces in which 3D modelling and the creation of Digital Twins play a major role, which not only model the building or equipment, but also its operation.



ELECTRICAL SWITCH CABINET MANUFACTURING

We provide customized production of automation control cabinets for our building management systems, in addition to fully serving the needs of our customers, even in small batch numbers up to 0.4 kV. We design and manufacture our switch cabinets with the help of quality raw materials and excellent professional knowledge, both for outdoor and indoor use. The high-quality main elements of our cabinets are made by Siemens, Schneider, and Rittal.



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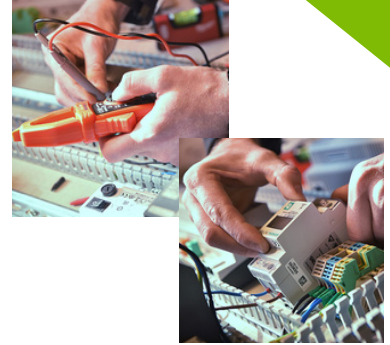


**5-10%
PRODUCTIVITY
GROWTH**



ELECTRICAL INSTALLATION

Our team undertakes the electrical installation of mechanical systems and electrical control cabinets. Among other things, the complete construction of electrical routes up to 0.4 kV, the construction of communication system routes, the complete electrical installation related to building automation systems, equipment production, installation, operation, and maintenance. No matter what the problem may be, our stable full-time team has a high level of professional knowledge at the disposal of our customers for all problems.



ELECTRIC CAR CHARGERS

WWW.GRUNEKRAFT.HU

Our new division is dedicated to the sale and installation of car chargers. Our products can be integrated to provide the perfect solution for corporate, residential, and public use. Their installation and commissioning is our job, after which the device can be used via an application (Android, iOS) or RFID card - which can even be controlled from the management interface!

ABOUT US

Grüne Antwort Ltd. was founded in 2012 by two students of the Budapest University of Technology and Economics. Over the years, the company has been constantly evolving, which has also affected the scope of activities and the size of the team. Today, we offer products and services in several areas. With a team of more than 10 people, we strive to meet the expectations of our partners based on their individual needs. The 3 main pillars of our company are professionalism, teamwork, and reliability. With this in mind, we always choose the best quality and most suitable products for our customers during implementation, thanks to our years of experience.



<p>UP TO 30% ELECTRICITY SAVINGS</p>	<p>10-20% COST REDUCTION</p>	<p>10-20% EFFICIENCY IMPROVEMENT</p>	<p>5-10% PRODUCTIVITY GROWTH</p>

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PROFESSIONALISM



TEAMWORK



RELIABILITY

FROM OUR REFERENCES



AIM

- the operation of highway rest areas without permanent staff
- installation of measuring and monitoring systems
- optimizing the scheduling of wastewater transport

- reduction of electricity consumption
- increasing comfort
- reduction of amortization costs and frequency of maintenance by increasing machine operating hours

- integrated monitoring system
- integration of existing equipment into the system
- optimization of operations, safety, and efficiency

SOLUTION

- installation of a monitoring function
- implementation of smart technology solutions
- installation of consumption meters

- remote control of equipment
- user-friendly control interface
- upgrade the existing equipment by implementing new solutions

- development of custom integrated building automation
- integration of heating and cooling systems
- installation of consumption meters

RESULT

- accessing to utilization and volume data remotely
- reduction of operating costs
- maintenance dates can be planned based on statistics

- 30% electricity savings
- low-intensity investment
- reduction in the frequency of maintenance cycles

- ~20% smaller ecological footprint
- ~10% reduction of electricity emissions
- easy control, even remotely

THE PAYBACK PERIOD FOR THE ABOVE INVESTMENTS IS ONE YEAR ON AVERAGE!



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