

ENERGY
HUNGARY



L E S S I S M O R E



OUR MISSION AND PHILOSOPHY

Our mission is to save the most energy and achieve the highest cost cuttings for our partners.

We provide solutions that use less energy at better prices than ever.

We help our partners – companies, institutes and local governments – become more competitive, at the same time they contribute to achieving global environmental goals.

Energy Hungary Zrt. helps you

- ✓ representing your interests
- ✓ on long-term partnership base
- ✓ in full spectrum
- ✓ on contingency fee basis
- ✓ with all service providers
- ✓ including financing and contracting



COMPANY HISTORY

Energy Hungary Energetikai Zrt., founded in 2010, is an independent actor in the energy market, and is not tied to any single power producer. The main investor of Energy Hungary is Észak-Budai Group, a qualified supplier of all domestic power suppliers for more than 30 years that also deals with the design, construction and operation of low and medium voltage electrical networks. The biggest financial investor of Energy Hungary Zrt. has been the European Union JEREMIE fund since 2014.

The company's main activities center around consulting, designing, constructing, investing-financing, operating and maintaining renewable energy projects, especially PV power plants (EPC). Besides this, we also participate in energy saving projects of mid to large size companies (ESCO type, energy saving investments).

OUR ACTIVITIES



Renewable energy projects, most importantly the design and construction of PV power plants (EPC).



Increasing energy efficiency with technological investments.



Financing and implementing investments through ESCO construction.



Energy audits, consulting, including certification for ISO 50001 energy management system.



Resolution and prevention of service interruptions, maintenance of equipment and network.



ELECTRICITY

A hand holding a glowing lightbulb against a background of green leaves. The lightbulb is illuminated, casting a warm glow. The background consists of large, dark green leaves, some of which are in focus and others are blurred. The overall image conveys a message of sustainable energy and innovation.

MORE EFFICIENT LED PUBLIC LIGHTING

Decisions in public lighting are long-term. Without support, the payback time for these projects is not very short, but there are a number of additional benefits other than cost savings. With the replacement of out-of-date light fixtures, reduced carbon dioxide emissions and lower light pollution can be achieved. Of course, the modernization of the public lighting cannot be complete without maintenance and operation agreements, which we undertake with decades of experience.

MORE EFFECTIVE INDOOR LIGHTING

Our lighting experts modernize existing systems with more economical and effective lamps to achieve a decrease in energy consumption. For this they use the most modern LED solutions among others. We can reach a cut of minimum 20% in energy bills. With a full-scale modernization, the energy consumption can be one fifth of the original one.

RENEWABLE ENERGY THAT QUICKLY GENERATES RETURNS

In Hungary, green energy production does not necessarily need assistance from the state and EU funding anymore. We can offer attractive project possibilities for manufacturing companies and big consumers of electricity, characteristically with the construction of PV power plants. Investment decisions on renewable energies require expertise and objective consideration, strong experience in designing and preparation along with competence in procurement. Our colleagues, consultants and project managers have the most modern training and knowledge to help you determine the best combination of multiple renewable and alternative energy possibilities.



SOLAR ENERGY

Nowadays, the importance of sustainability in everyday life is becoming more and more obvious for everyone. Traditional power plants use fossil-based energy sources, pollute the environment and cause permanent changes in the climate. One of the cleanest energy sources is solar energy, that can be utilized by the help of PV power plants. Hungary has an annual average of 2000-2500 sunny hours and is ideal for installing PV power plants. Each watt of energy made by a solar module decreases the carbon print and protects the environment.

PV POWER PLANTS

Our company has been installing smaller solar systems from the start for institutes and companies. Among these projects, we have made plenty of 10 to 50 kW solar systems at around 100 places in Hungary. Later, we started making bigger PV power plants. We made our first turn-key ground mounted 498 kVA PV power plant in 2018 including full design and construction work. We installed 33 more of these power plants in Hungary between 2018 and 2020. From 2020 we have been concentrating on bigger solar power plants; currently working on the design of several bigger (50 MW) projects.

Designing and constructing a PV power plant is a very complex task requiring expertise. Our experts have realized PV power plants in various places in Hungary including designing, procuring the equipment, building the park, installing the surveillance and monitoring systems among others. You also need years of experience to avoid all possible pitfalls in the construction of solar power plants. It is not enough to pick the construction site carefully; you also need a nearby electricity grid to connect to and need to ensure the long-term protection of the investment. For these activities, especially connecting the power plants to the grid, we are your local experts.

DESIGNING PV POWER PLANTS

Our company offers a turn key realization of solar power plants.

Among our services, we design:

Substations, do the related electrical and engineering tasks to get fast authorization

PV power plants, do the related electrical and engineering and authorization tasks

Monitoring systems, surveillance systems, do geotechnical and statical surveys etc.

AC and DC cable networks

Grounding and lightning protection



CONSTRUCTION OF PV POWER PLANTS

The construction of a PV power plant starts with careful preparation. Our company offers to manage the procurement, logistics and warehousing tasks besides the actual construction. On the course of procuring the main equipment, we get quotations from the biggest and most reliable module, mounting structure, inverter and transformer manufacturers to get the best quality for the best price. In case of the main equipment, our suppliers grant a minimum of 10-year product warranty for the structure, 25 years for the solar modules, up to 15 years for the inverters and transformers.

CONTRACTOR SERVICES:

- ✓ landscaping, building inside roads
- ✓ making the mid-voltage grid connection point
- ✓ installation of transformer stations, poles, pole switches
- ✓ laying and connecting low-voltage and optical cables
- ✓ laying and connecting mid-voltage cables
- ✓ installing mid-voltage switchboards
- ✓ ramming of piles, building the mounting structure
- ✓ installing the solar modules
- ✓ installing a weather station
- ✓ making the grounding and lightning protection
- ✓ conducting the electrical tests
- ✓ creating the monitoring system
- ✓ making the surveillance system
- ✓ waste management

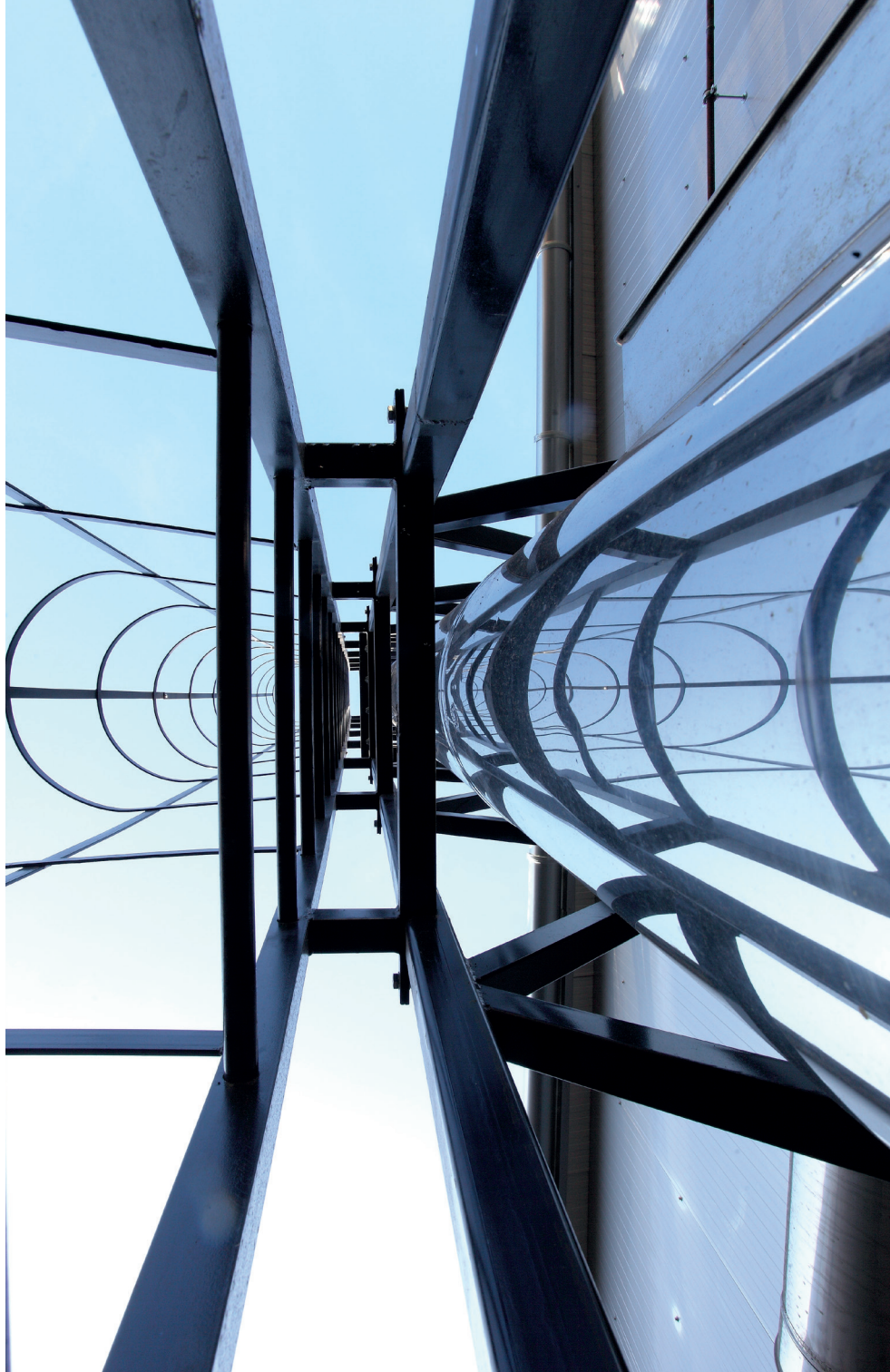
GAS AND HEAT SAVINGS

HEATING MODERNISATION

A number of solutions have been well-proven to reduce the cost of heating and domestic hot water (DHW). The use of heat exchangers, solar collectors, and heat pumps can be economical alternatives to upgrading industrial facilities or office buildings. Installation cogenerating small power plants – plants which are suitable for both electricity and heat – is sometimes more favorable than the separate purchase of both gas and electricity. Disposal of waste heat, waste gas utilization, offers a significant savings opportunity – up to tens of millions of forints per year.

INSULATION, BUILDING MATERIAL MODERNIZATION

The most common problems associated with insulation – including thermal bridges, mold, bad air, and a lack of ever paying a return on investment due to low efficiency – can be avoided by utilizing the necessary expertise ahead of time. By working with us, you can be sure that as a partner to your success, we will provide you a solution that will stand the test of time.



ESCO, SELF-FINANCING INVESTMENTS

Energy Hungary Zrt. places the highest priority on the design, construction, and financing of complex energy-efficiency projects. The so-called ESCO – Energy Saving Contract – business model serves as the foundation on the basis of which the company invests at its own expense, and which our partners pay back, over the long term, strictly on the basis of the achieved energy savings. If there is no energy savings, then you do not pay: our company takes on the full risk. By implementing projects that involve the use of electricity and heating, or the use of alternative energy production methods, you can reduce costs without financial investment, and while enjoying all of the benefits offered by our modern tools.

WHY CHOOSING US?

Please contact us, and we will be happy to visit you for a free consultation completely free of any obligation! Our highly experienced engineers will test your most important energy consuming equipment during their on-site visit, check their efficiency, as well as the active and passive energy usage. They will uncover the causes of energy loss and seek solutions to reduce energy waste or utilize energy that otherwise goes to waste. The solution we offer does not come with a penny of obligation, but instead will be financed entirely from future energy savings, and even so can represent an up to 70% cost savings in electricity!

- › Our philosophy is based on long-term partnerships, so we only ask for a contingency fee and do not have a fixed base fee.
- › We offer a full range of services: we not only provide consulting, but also implement our suggestions.
- › We independently fund a significant percentage of our projects.
- › We are independent of service providers, therefore we have only your interests in mind.
- › We have strong design, construction, and licensing backgrounds, ISO certifications, and references.

REFERENCES



MERIAN Foods Kft. (Orosháza):

Modernization and disassembly of heating and domestic hot water from the central heating system. 450 kW of condensing boiler capacity, creating room-temperature regulation.



Municipality Government of Besenyszög:

Modernization of the energy usage of eight municipal buildings: facade and ceiling insulation, replacement of doors and windows, modernization of heating and the construction of a total of 300 kW geothermal heating systems in four institutions.



Hungerit Zrt. (Szentes):

Upgrade, insulation, exchange of condensing plants, installation of flue gas heat recovery equipment, utilization of technological waste heat, installation of phase correction equipment.



Vép City Municipal Government:

Energy modernization of three municipal buildings with exterior thermal insulation, replacement of doors and windows, reconstruction of the heating system and setting of room temperature-dependent regulation. The project was implemented within the framework of the European Union's KEOP tender.

SOME SOLAR POWER PLANT REFERENCES

2018-2020. Design and construction of ground mounted PV power plants.



BODAJK



HÓDMEZŐVÁSÁRHELY



FERTŐSZÉPLAK



GYŐRVÁR



KAJÁRPÉC



KECEL



KECSKEMÉT



KISKUNHALAS



KÖTEGYÁN



MEZŐKOVÁCSHÁZA



NAGYVÁZSONY



ÚJKÍGYÓS



VÁRPALOTA



VESZPRÉM



ZALAEGERSZEG



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about projects we have already completed!
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Készült a Külgazdasági és Külügyminisztérium támogatásával.