

ENERGY-BALANCING-STORAGE WITH PHOTOVOLTAICS

EU/Ungarn/Neszmély



GREEN **INDUSTRY**
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A PROJECT FROM HOLDOM ENTERPRISE



ENERGY BALANCING POWER PLANT

The sunny side of Hungary

Located on a total area of 172 hectares of industrial land in Neszmély/Hungary, “Green Industry KFT”, owned by Holdom Enterprise GmbH, is planning to build one of the largest energy storage facilities for grid balance in Central Europe.

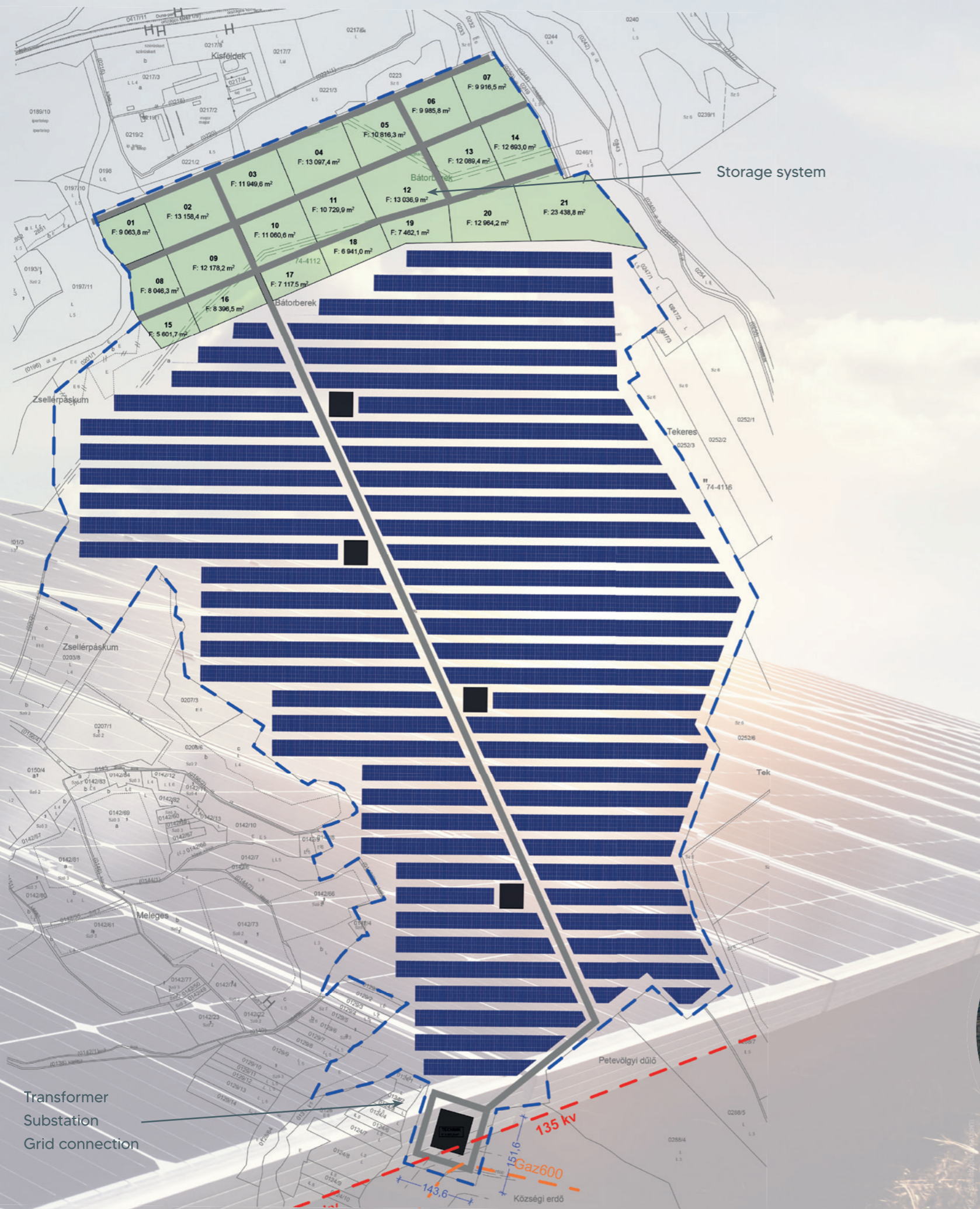
The area, which has an excellent strategic, economic and transport-related location, is to be developed into a European showcase project by 2030 as part of a multi-stage phase plan. The focus is on innovation, cost-effectiveness and environmental protection.

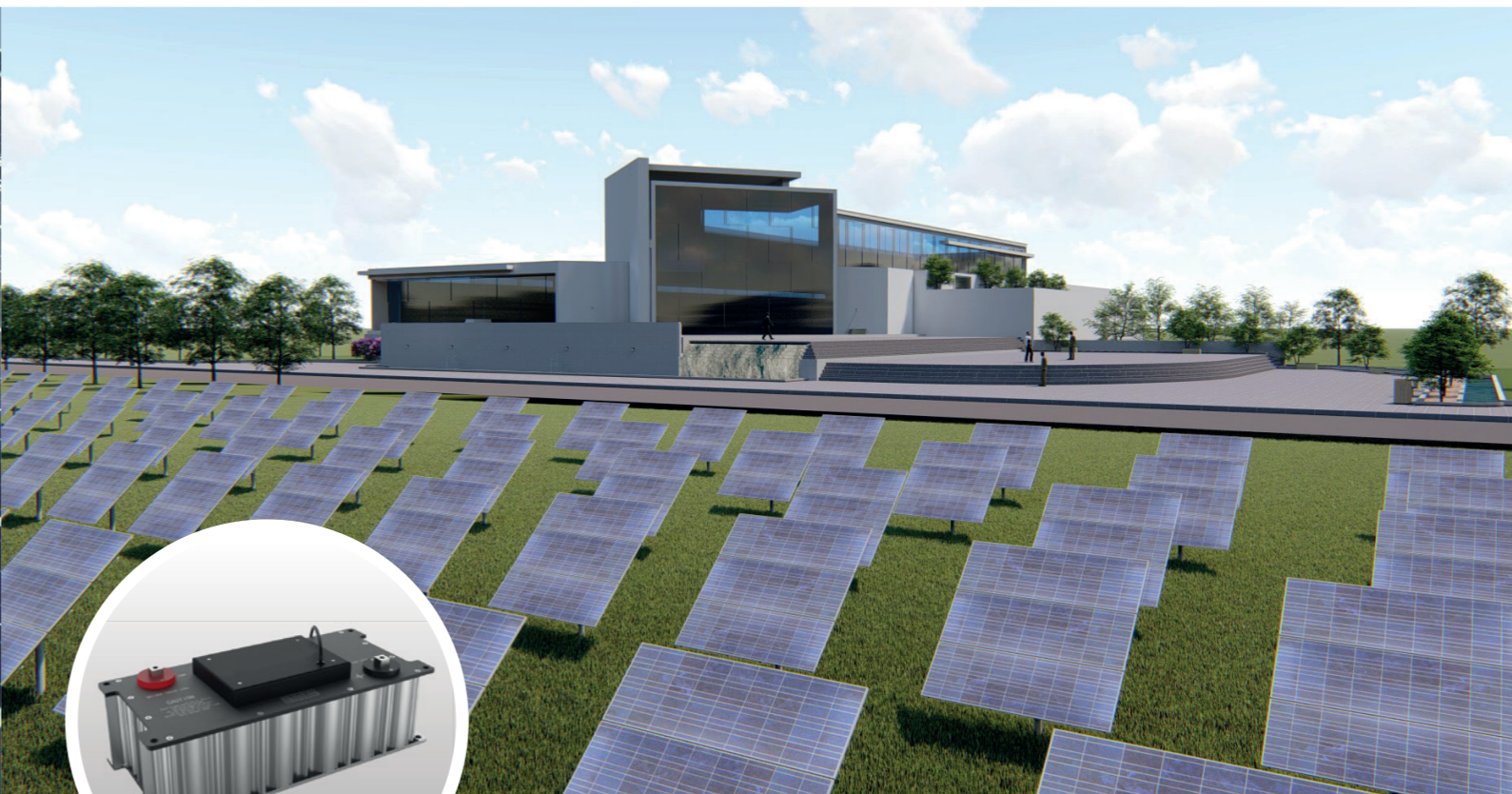
Around half of the ground is grassed and overgrown with bushes, a third consists of forest and around 20 percent consists of a former landfill which from an aluminum production arised.

In a first step, the environmentally polluted landfill will be renovated and converted into a green, innovative energy balancing project for the future. With the help of an integrated photovoltaic system on approx. 120 hectares, which acts as an energy supplier, the innovative and future-oriented energy storage balance project is to be created. With the help of hybrid supercapacitors, this system is intended to represent a milestone in the energy balance and thus secure the network capacity.

About us

With this European flagship project, “Green Industry KFT” will demonstrate the compatibility of ecology, innovation, economic success and job creation.





250.000 panels charge supercapacitors that deliver constant energy around the clock when needed.

The global gradual phase-out of oil, coal and nuclear power has given energy generation from solar power a strong boost. The enormous technical developments in the field of photovoltaics in recent years have made it possible to generate more and more electricity with ever smaller panels.

The basic requirement for this type of energy generation is simply the largest possible area and the longest possible exposure to sunlight. This is exactly what is available on the property of "Green Industry KFT".

Up to 2.500 hours of sunshine affect a 120-hectare area, which is equipped with 250.000 panels using the latest technology. In concrete terms, this means that it is possible to supply up to 50.000 households with environmentally friendly electricity. A dedicated 132 kV-line is already on the property so that E.ON can feed it into the Hungarian network.

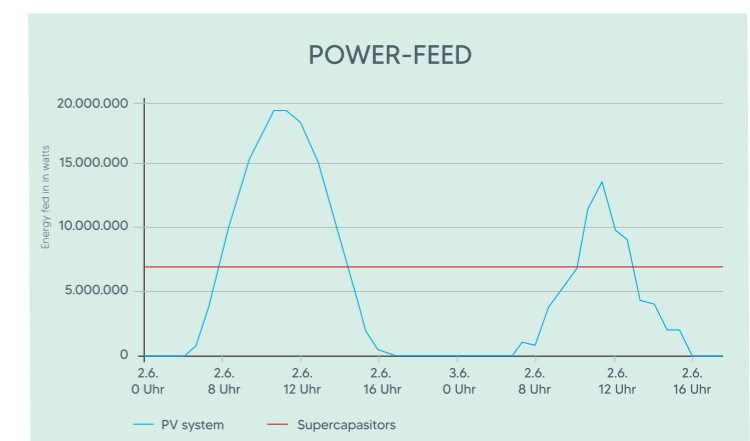
Since there are no CO₂ emissions, this "green energy" is not only environmentally and climate-friendly but also from an economic point of view forward-looking.



„Energy Balancing“ - Our path to the right future (hybrid ultra-capacitors)

The production of renewable energy is an important step in reducing greenhouse gas emissions and thus achieving the climate goals in Europe. But with this type of electricity generation, you are tied to the sunny hours of the year. But in order to have enough electricity available even when the sun is not shining, powerful energy storage technology is required that balances the power grid through immediate and reliable charging and discharging. In this way, excess energy and any energy peaks from the photovoltaic system can be smoothed out and the power grid can be stabilized.

Supercapacitor technology therefore relieves the load on the power grid, balances the energy generated and ensures a secure energy supply. The required energy is therefore always available at the times when it is needed.





Macro analysis – location

The project area is located in the town of Neszemény in Hungary, which is part of the European Union. The place is located directly on the Danube. There is therefore an optimal shipping connection to Austria and Germany on the one hand and to Poland and the Black Sea on the other. The geostrategic traffic situation can be described as excellent, as the transport network makes it possible for the airports and capital cities of Budapest in 83 km

and 184 km to reach Vienna. Bratislava Airport is also only 141 km away. The Hungarian trading town of Győr is 62 km away and one of Slovakia's largest cities, Nitra, is 88 km away. Neszemény has its own train station and can therefore be easily reached by train, truck, plane and ship and therefore offers the best conditions for an industrial location.



Microanalysis – location – radius 30 kilometers

The Hungarian town of Neszemény is located in the Hungarian Komárom-Esztergom Vármegye county, has around 1,500 inhabitants. Neszemény has excellent transport connections and is in the immediate vicinity of the Danube (800m). The motorway feeder road is not far away (15 km), and the approaches and access roads are well developed. Larger units of rental

apartments and two hotels are located within a 20-kilometer radius. These have a shopping center, three supermarkets and local suppliers. The nearest hospital is in the neighboring town of Komárom. The area described can be described as prosperous.



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Impressum:

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