LSK Green Group

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We are shaping the future of Czech energy

We have 20 years of experience in green energy management and production.

Our team of experts specializes in providing customized energy solutions tailored to the specific needs of our clients.

Our goal is to help clients reduce their costs through the use of renewable energy, thereby contributing to environmental protection.

100K
installed panels

60K MWh
of clean energy produced annually

40K tons of CO_2
saved every year


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RENEWABLE ENERGY TECHNOLOGIES

Solar power plants

Investing in photovoltaics is not just about saving money – it is a strategic decision on how to stabilize operating costs and increase the value of your property. LSK Green Group will supply you with a photovoltaic power plant that fits into your operations and long-term energy strategy.

Large photovoltaic power plants are a solution for businesses, municipalities, or investors who want to make the most of solar energy to generate electricity. They are designed to optimize the use of available space while offering high energy efficiency.

With LSK Green Group, you can turn solar energy into a stable and efficient source of electricity.

Our projects not only bring energy self-sufficiency, but also significantly reduce operating costs and provide long-term stability. Using high-quality technologies and experience from many successful installations, we design solutions tailored to your needs.

Solar facades and glass

Solar facades and solar glass transform buildings into modern and energy-self-sufficient structures that not only look good, but also contribute to lower operating costs. Whether it's apartment buildings, shopping centers, or office buildings, our technology will turn your building into a functional solar power plant.

This technology transforms your building's facade into a source of clean energy that is immediately used for your own consumption. The result is a significant reduction in operating costs and greater energy independence.

Imagine that your building not only looks great, but also becomes a self-sufficient solar power plant that reduces costs and promotes sustainability. With technologies from LSK Green Group, you can achieve all these goals while strengthening your environmental profile.

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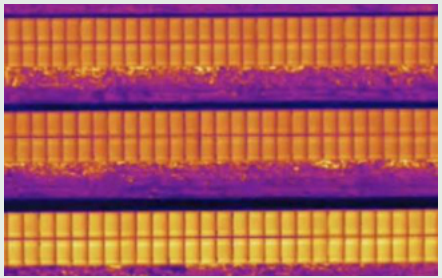
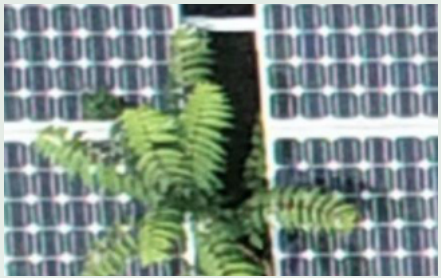

RENEWABLE ENERGY TECHNOLOGIES

Inspection of photovoltaic power plants using drones

Detect losses before they start costing you money.

Thermal imaging inspection of photovoltaic power plants from a drone will help you detect hidden problems, reduce losses, and extend the life of your technology.

Using advanced analysis, we identify more than 15 types of faults: overheated cells and cell groups, defective diodes, modules, strings, and inverters, vegetation overgrowth, shading or soiling, physical damage and delamination, wiring errors (reverse polarity, internal short circuits).

E-bike charging station

Charge your e-bikes and scooters in an environmentally friendly, convenient, and safe way. The smart charging station combines clean solar energy, advanced safety features, and an information system in a single design that does not require a connection to the grid or a building permit.

The station adds value to the location. It is designed for anyone who wants to create a modern, safe and sustainable public space.

Whether you are a developer, mayor or entrepreneur, this solution will increase the attractiveness of your project and bring added value to the entire community.

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Energy supplies

We supply electricity and gas at a fair price to places that need to operate at full capacity without interruptions.

LSK Green Energy s.r.o. is a registered electricity trader in the Czech Republic. We offer more than just energy. We provide strategy, optimization, and long-term support that helps companies, municipalities, and public institutions reduce costs and prepare for the future of modern energy.

We supply electricity to companies, municipalities, and institutions under fair and competitive conditions. We help optimize consumption, reduce reserved power input, and plan consumption so that energy becomes an effective tool for development.

We can connect your own resources, such as photovoltaic power plants and battery storage, into a customized smart energy concept. We offer consulting, subsidy support, and long-term partnerships that provide real added value.

POWER AGGREGATION AND LOCAL NETWORKS

Battery Energy Storage Systems (BESS)

At a time of rising energy prices and demands for grid stability, battery energy storage systems (BESS) and energy management systems (EMS) are key technologies for businesses, municipalities, and investors. They enable you to store energy, manage consumption, trade on the energy market, and maximize the use of sources.

Battery Energy Storage Systems (BESS) are smart battery devices that store excess energy during periods of low consumption or high production, release it when needed, increase the stability and flexibility of the entire energy system, and support renewable sources that could not be fully utilized without storage.

Thanks to the connection to the EMS (Energy Management System), it is possible to optimize energy flow in real time and achieve maximum efficiency.

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POWER AGGREGATION AND LOCAL NETWORKS

Aggregation block

The LSK aggregation block enables companies, municipalities, and operators of photovoltaic power plants and battery energy storage systems to actively manage consumption, trade flexibility, and earn from their energy—without changing suppliers.

We connect your production, consumption, or storage to an intelligent system that responds to fluctuations in the transmission system and enables the provision of ancillary services.

You continue to purchase electricity from your supplier, without any changes to your contract or unnecessary administration. LSK Green Group monitors the operation of your equipment and prepares it for activation when needed.

In the event of fluctuations in the grid, the system responds within 15 seconds – for example, by limiting consumption or using batteries. You receive financial compensation for the flexibility you provide and reduce costs during peak energy periods.

Local distribution system

A local distribution system (LDS) allows multiple buildings, production and consumption sites to be connected into a single functional unit with unified energy management.

The complex then behaves like a single house – with a single bill, shared consumption, and the possibility of efficiently using its own electricity production from PV or BESS. Buildings communicate with each other, optimize consumption, share surpluses, and respond to current needs without unnecessary losses.

We provide design, implementation, and legislative conditions, including balancing and metering, with the option of connecting to aggregation or other smart solutions.

LDS is ideal for industrial complexes, development zones, campuses, and municipalities that want to control their energy consumption with a lower administrative burden.

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UPOS process, testing & simulation of the production module

Every production module connected to the distribution network must now undergo the UPOS process, including inverter compliance simulation.

These are advanced calculations that verify the behavior of the equipment in various operating states and are necessary to obtain a connection permit.

LSK Green Group provides a turnkey solution for the entire process.

From the analysis of supporting documents to the final documentation for the distributor.

We perform the simulation internally, so we have full control over the calculations, quality, and speed of processing.

Thanks to specialized software and technical know-how, we can deliver everything quickly, clearly, and without unnecessary administration for the customer.

Inspection of electrical equipment

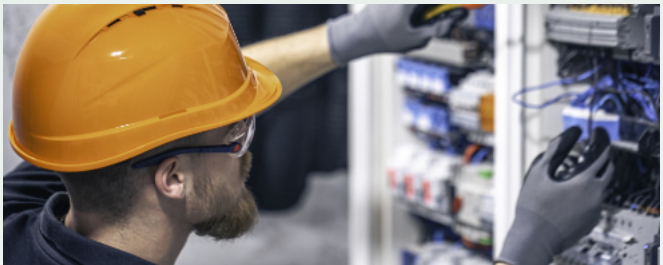
We will take care of professional inspections of your photovoltaic power plants, batteries, electrical installations, and lightning conductors to ensure that everything complies with standards and functions safely.

Inspections are performed by an experienced technician with E2A and E2B certification who is familiar with industrial and public buildings.

We will inspect equipment up to 1000 V AC / 1500 V DC, appliances, tools, and areas with a risk of explosion.

We can combine inspections with other technologies that we supply, such as PV systems, BESS, or LDS.

You will receive a clear inspection report and the certainty that your operation will stand up to inspection or an insurance claim.



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Monitoring & management of photovoltaic power plants

Reliable operation of a photovoltaic power plant today is not just about installing high-quality technology, but also about what happens afterwards – systematic monitoring, maintenance, and timely response.

A modern monitoring system allows you to track the performance, operating status, and critical components of a PV power plant in real time, from inverters and switchboards to individual panels. Thanks to automatic alerts, it can respond immediately to any outage or anomaly, thus preventing losses. The platform also enables PQ regulation control, an overview of breakdown locations, and records of all service interventions. The integrated digital logbook displays the work schedule, inspection dates, photo documentation, and the performance of field workers.

The result is full control over production, maximum operational efficiency, and minimal administrative burden. Everything under one roof, 24/7.

Energy management system (EMS)

The smart energy management system optimizes consumption, prevents losses, and achieves maximum operational efficiency.

It monitors energy flow in real time, evaluates data from appliances, production sources, and storage facilities, and automatically decides on the most advantageous use of available capacity. Thanks to its connection to batteries, photovoltaic power plants, or building management systems, it can minimize peak grid consumption and manage its own consumption according to current market prices. It also enables consumption prediction and mode switching.

The system is being developed in collaboration with Techsys as a purely Czech solution with an emphasis on cyber security and data independence. It is fully scalable and ready to grow along with technologies and user needs. Thanks to EMS, you have control over every kilowatt-hour and the certainty that energy is working to your advantage.

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SELECTED REFERENCES

Places where energy works smart

CPT Ostrava

Photovoltaic system on the roofs of 4 CTP halls

INSTALLED CAPACITY	**5,5 MWp**
NUMBER OF PANELS	**11 808 pieces**
PANEL AREA	**27 000 m²**

CTP Park Brno

The first solar power plant on a facade in Europe

INSTALLED CAPACITY	**10,32 kWp**
INSTALLATION TIME	**3 days**
RETURN ON INVESTMENT	**7 years**

P3 Mstětice

Energy solution for two modern logistics halls

PV & solar facades at Gercenova

Installation of solar facades and photovoltaic panels on the roof of the Gercenova Prague 15 nursery school complex

CTPark Ostrava Hrušov

Combining old and new halls under one energy solution


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Write to us, call us, stop by

Together, we will discuss the options, propose tailor-made solutions, and show you how modern energy can work to your advantage.

We look forward to welcoming you to our showroom, either by phone or in person at your premises. We are here for companies, municipalities, developers, and anyone who wants to manage their energy smartly and transparently.

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