eds engineering

OUR PARTNERS:

ABB · EATON Powering Business Worldwide · ETI · Schneider Electric · SIEMENS

OUR CLIENTS:

ATB · DTEK · UKRENERGO · ЗАПОРІЖЖЯОБЛЕНЕРГО · ИНТЕРПАЙП · AEGAS · ЕВРАЗ · УЗ · УРС УКРРЕЗЕРВУАРСЕРВІС · ФПОНП

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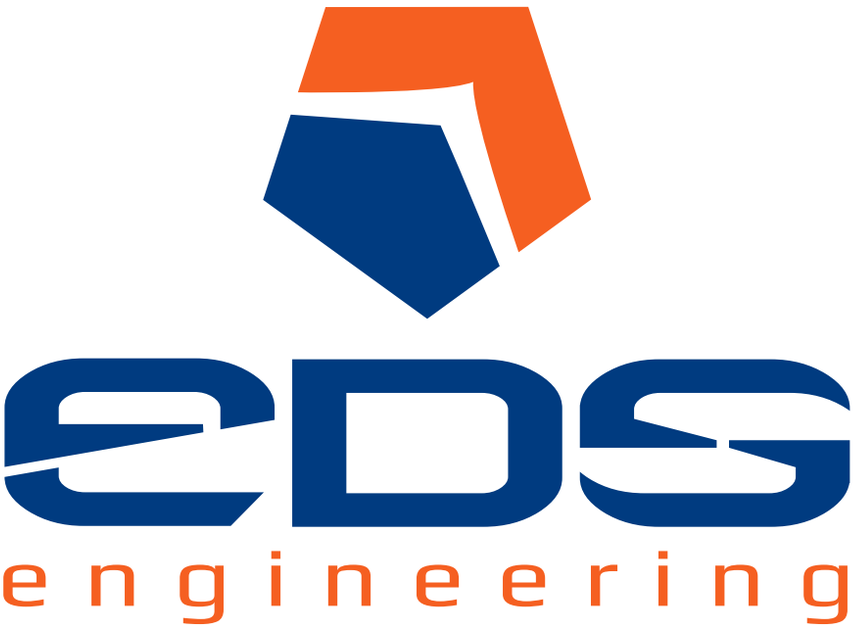


CONSTRUCTION OF ENERGY FACILITIES

energy under control

ENERGY

VISION

We are charged with energy to implement the most ambitious projects, we do business dynamically and efficiently and have the power to control the electrical energy that serves people without harming our planet.

DYNAMICS

MISSION

Create innovative solutions for an integrated approach to customer needs in the field of electric power supply and energy.

STRENGTH

VALUES

HONESTY

We are honest with ourselves and our customers, we do business respectively.

CONSISTANCY

We are steadily and consistently developing, making our whole country stronger and more environmentally friendly.

THE ABILITY TO MAKE DREAMS COME TRUE

We are able to dream and have the experience to implement any modern technical solutions in the field of traditional and alternative energy and electric power supply.

DIGNITY

We strive to work with those who share our principles and values.

ABOUT COMPANY

EDS-ENGINEERING – is a technology company contributing to the transition to renewable energy sources. Working in Ukraine since 2010, we have realized more than 2000 technical projects in the field of electric power supply, developed more than 800 sets of design and estimate documentation for construction and reconstruction of electrical grids, including for the facilities in the field of alternative energy with a total capacity of more than 900 MW.

The company's product line offers a wide range of switchboard equipment of various fields of applications.

We are reliable partner for large business which cares for the environment and bets on the alternative energy.

The company cooperates with world brands of electrical equipment, such as ABB, Eaton, ETI, Schneider Electric, Siemens.

AREAS OF ACTIVITY

- DESIGNING OF ENERGY FACILITIES
- CONSTRUCTION OF SOLAR POWER STATIONS
- MANUFACTURE OF SWITCHBOARD EQUIPMENT
- CONSTRUCTION OF ELECTRICAL SUBSTATIONS
- ELECTRIC POWER SUPPLY AN AUTOMATION

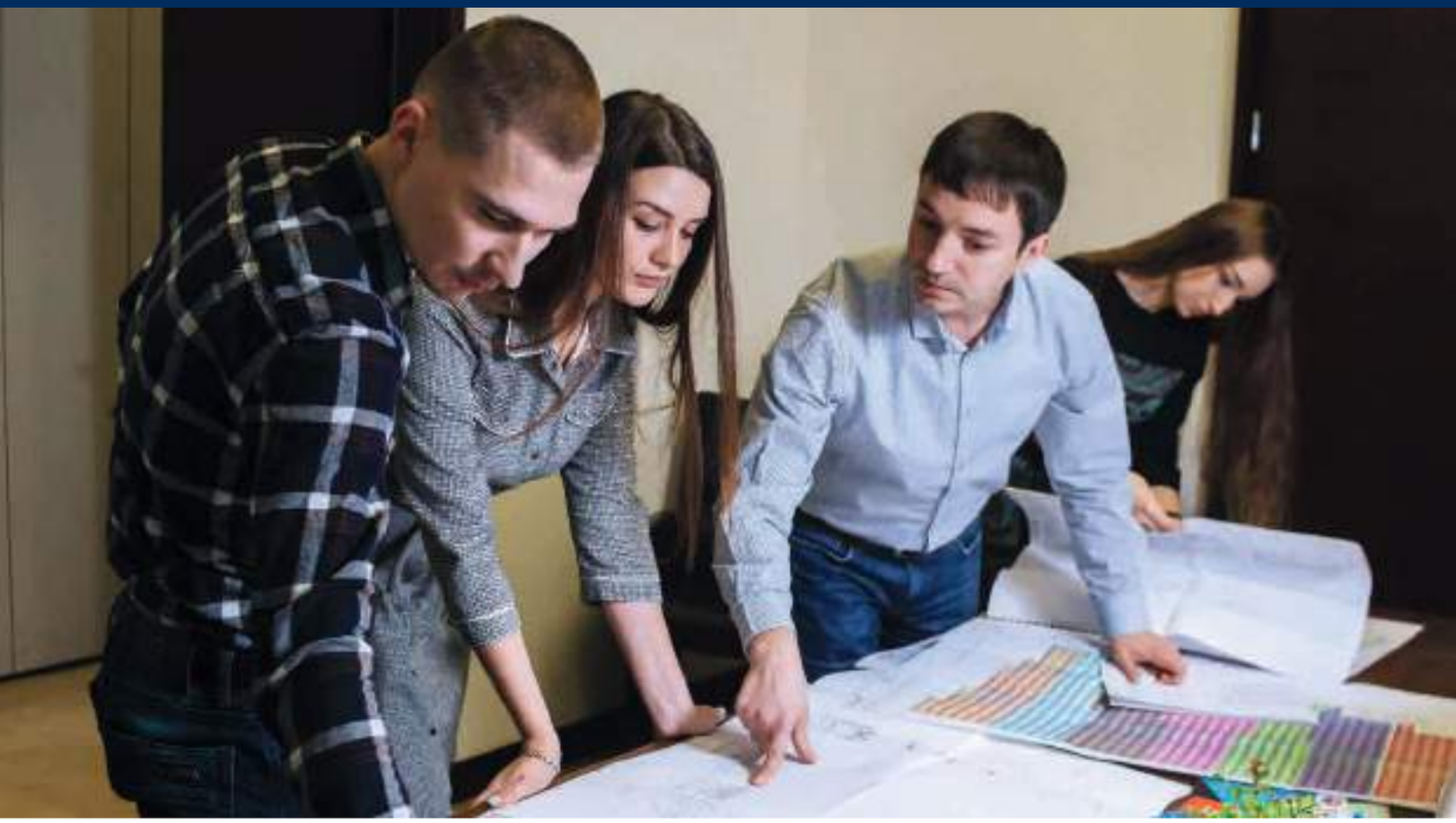
INTEGRATED APPROACH TO CUSTOMER NEEDS IN THE FIELD OF ELECTRIC POWER SUPPLY AND ENERGY.

DESIGNING OF ENERGY FACILITIES

We offer services for designing of solar power stations, facilities and systems for transmission/distribution of electrical energy, relay protection and automation systems, power factor compensation, modern power correction devices with harmonic filtering and low-current networks

Designer nating winner by GetMarket platform

Engineering, geodetic and geological surveying › **Feasibility study development** › **Development and coordination of design and estimate documentation** › **Designer's supervision**



INDIVIDUAL APPROACH

Each technical problem is solved individually to ensure maximum efficiency of the designed systems.

THE LATEST TECHNOLOGY

Information three-dimensional (3D) modeling using SolidWorks and Autodesk Revit softwares.

COORDINATION OF THE PROJECT IN ALL REGULATORY BODIES

We undertake the coordination of the design and estimate documentation of any complexity along the entire necessary chain until a positive decision is received.

TO MAKE IT DIFFICULT AND EXPENSIVE - EASY TO MAKE IT EASY AND REASONABLE - MUCH MORE DIFFICULT

≥ 800 PCS.

Number of designed facilities since 2010

≥ 40 PEOPLE

Number of design engineers in the team EDS-ENGINEERING

≥ 900 MW

Total capacity of the alternative energy facilities designed by EDS-ENGINEERING

DESIGNING OF POWER STATIONS AND SUBSTATIONS 6-330 KV

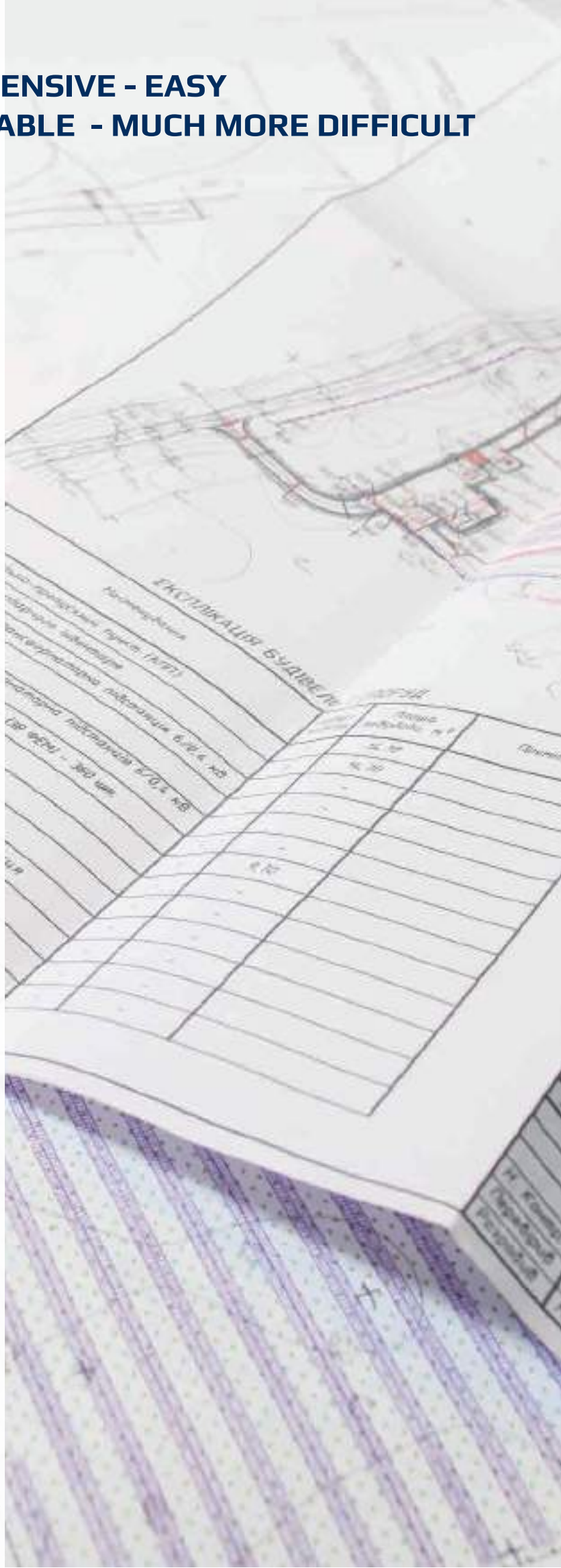
- ✓ Development of plans for the installation of primary power supply equipment.
- ✓ Designing of relay protection and automation.
- ✓ Designing of operating current systems and auxiliary powers of substations.
- ✓ Telemechanization of substations, APCS and development of SCADA-systems.
- ✓ Introduction of automatic systems for commercial accounting of power consumption.
- ✓ Designing of lightning protection and earthing.
- ✓ Designing of auxiliary fire and burglar alarm systems, video surveillance, AMCS.
- ✓ Development of information three-dimensional (3D) station models.
- ✓ Development of individual designs and non-standard solutions.

DESIGNING OF SOLAR POWER STATIONS

- ✓ Development of design documentation for the construction of industrial ground-mounted and roof solar power stations.
- ✓ Implementation of the project for connection to the electrical grids.

DESIGNING OF CABLE AND OVERHEAD POWER TRANSMISSION LINES

INTERNAL AND EXTERNAL ELECTRIC POWER SUPPLY OF ENERGY FACILITIES



WE KNOW HOW TO DO WITH MAXIMUM EFFICIENCY

CONSTRUCTION OF SOLAR POWER STATIONS

We provide a full range of services for the construction of solar power stations

Depending on the customer preferences, we can act as an EPC-contractor (EPC and EPC + models), as well as perform separate parts of work (EPCM model).
The EPC model assumes the perfomance on a «turnkey basis» - from designing to launching into generation, EPC + additionally includes the development of a land plot and the calculation of economic efficiency of the future SPS.

Member of the TOP-5 EPC-contractors of Ukraine rating by GetMarket platform.

Preparation and signing of the contract › **Designing** › **Purchase of equipment** › **Construction** › **Commissioning**

THE BEST EXPERTISE ON THE MARKET

Our team confirmed their skills and transferred the best practices from traditional to alternative energy.

MANUFACTURING OF THE SWITCHBOARD EQUIPMENT

Depending on the capacity of the SPS, we will offer you a solution with PTS, DP, SS of optimal configuration.

BUILDING ON OUR OWN

From the construction and installation work to the improvement of the solar power station area.

THE SUN IS AN INEXHAUSTIBLE SOURCE OF ENERGY

$\geq$ 1300 KW/M^2
insolation level in Ukraine

Our country is at a level between 1150 to 1500 kW/m2, which is significantly higher than the average in Germany and the Nordic countries. This makes Ukraine an attractive country for the investment in the sun.

0,66 EURO/1 W
average investment in the construction of an industrial solar power station

The amount of entry into the business over the past three years has reduced almost by half.

165 000 EUROS/1 MW
average annual income of industrial SPS

The profit directly depends on the capacity of the solar power station.

220 MBT
built by EDS

We launched the first 2 MW photovoltaic power station in 2017 and a year later become a part of THE TOP 5 of the EPS contractors of Ukraine in the field of solar energy (#4 of the platform rating for the investment GetMarket).

11 MBT
owned by the company

These are three SPS in the Dnipropetrovsk region: Alanta Energy and Sun Energy Pidhorodne (both on 2 MW), as well as Sun Energy Megirich on 7 MW. We also invest in the sun.

WE WILL HELP TO MANAGE EFFECTIVELY

MANUFACTURE OF SWITCHBOARD EQUIPMENT

The product line includes switchboard equipment of a wide range of applications: from low-voltage devices to distribution cabinets and switchboards for medium and high voltage

QUALITY CONTROL AT EVERY STAGE

The production capacities are certified according to the international standard ISO 9001: 2015. All equipment has certificates of quality.

INTEGRATION OF THE DESIGN ENGINEERING DEPARTMENT INTO THE MANUFACTURING PROCESS

Due to the close interaction we provide maximum flexibility in considering the client's preferences.

THE USE OF COMPONENTS OF WORLD BRANDS

Among our partners are ABB, Eaton, ETI, Siemens, Schneider Electric.

NEW TIME - NEW EQUIPMENT

RPA

Relay protection and automation devices RPA are designed to protect against short circuits, overloads and other abnormal modes of high-voltage power transmission lines, power transformers (autotransformers), reactors, busbars and bus devices of power stations and substations of 35-500 kV. The range is represented by protection cabinets, operating direct current cabinets, clamp boards.

StreamLine

Main distribution boards up to 1000 A. This series is designed to distribute electrical energy at industrial enterprises or at large shopping centers – where is a need to supply electrical power to a large number of consumers. Ideal as a replacement for the main distribution board MDB.

PowerLine

System of input-distribution boards up to 4000 A. A compact modern solution for 0.4 kV switchgears of transformer substations. It can be used both independently and as part of a switchgear Ideal as a replacement for panels of input-distribution board SCHO-90.

MVC

MVC medium voltage chambers are used for receiving, metering, protection and distribution of electricity in 6-10 kV closed switchgears. Ideal as a replacement for unilateral maintenance collection chamber KSO.

X-Line

Multifunctional input-distribution device up to 630 A. It is designed in the form of a monoblock and combines five electrotechnical functions. It is the most compact device with such functionality in Ukraine. Ideal as a replacement for input switching device VRU.

PTS of M1 series

Packaged transformer substation of M1 series of medium voltage 6(10)/0.4 kV, rated power from 25 to 160 kVA. Supplied in the form of prefabricated ready-to-operate all-welded framework. The equipping includes the following compartments: power transformer compartment, low-voltage switchgear compartment 0.4 kV, medium voltage compartment 6(10) kV.

PTS of MODULE series

Packaged transformer substation of Module series of medium voltage 6(10)/0.4 kV, rated power from 250 to 1600 kVA. Supplied in the form of compartments-modules, each of which can be swapped and add new modules, that allows to change the PTS scheme during operation.

WE WILL RENEW ALL YOUR EQUIPMENT LINE

CONSTRUCTION OF ELECTRICAL SUBSTATIONS

We provide a full range of services for the construction and reconstruction of transformer substations of general and special purpose

Depending on the customer preferences, we can act as a general contractor in the construction of substations of all types or perform separate parts of electrical installation works.

Designing › Construction › Installation › Commissioning works › Service

EXPERT APPROACH

A team of professionals with successful experience in the construction of electrical substations since 2010.

THREE-DIMENSIONAL MODELING

Visualization of the future substation with full volume of materials, specifications, as well as testing the model for collisions.

BUILDING ON OUR OWN

From the construction and installation work to the improvement of the territory of the electrical substation.

EXPERT APPROACH TO THE TASKS OF ANY COMPLEXITY

≥ 800 PCS.

Number of designed facilities since 2010

≥ 2000 PCS.

Number of developed technical projects in the field of electrical power supply

CONSTRUCTION OF SUBSTATIONS OF ALL VOLTAGE RATING

- ✓ Carry out engineering-geological and geodetic surveys.
- ✓ Perform general construction, technical and electrical installation works.
- ✓ Perform commissioning works for electrical substations.

RECONSTRUCTION OF SUBSTATION ON "TURNKEY" BASIS

- ✓ Audit of the current state of the substation and analyze the possible need for an increase in power.
- ✓ Selection of the optimal equipment for electrical substations, taking into account the power reserve.
- ✓ Perform general construction, technical and electrical installation works.
- ✓ Perform commissioning works for electrical substations.

AMONG THE WORKS INCLUDED IN OUR RANGE OF SERVICES ARE:

- ✓ Development and adjustment of design and estimate documentation during the implementation of the facility.
- ✓ Electrotechnical solutions.
- ✓ Relay protection and automation.
- ✓ SCPA of substation, including software development.
- ✓ Telemechanics (SCADA-systems).
- ✓ Fire and burglar alarm.
- ✓ HVAC, WSS, EIA, etc.
- ✓ Laboratory measurements and testing of electrical equipment.
- ✓ Parameterization and programming.
- ✓ Lightning protection and earthing.

INTEGRATED SOLUTIONS IN OPTIMUM TERMS

POWER SUPPLY AND AUTOMATION OF INDUSTRIAL FACILITIES

We offer a full range of services for power supply and automation of industrial facilities, installation of cable lines and laboratory measurements of electrical equipment

Designing › Construction › Commissioning works › Service

CONSTRUCTION OF CABLE LINES OF ANY COMPLEXITY

We will cope with any task – from low-voltage to high-voltage underground lines.

EXPERIENCE IN THE RECONSTRUCTION OF NON-STANDARD FACILITIES

The electrical installation brigades of EDS-ENGINEERING have successful experience in implementing projects with complex geology and are ready to offer optimal solutions.

OWN MOBILE ELECTROTECHNICAL LABORATORY

Detection of malfunctions at an early stage using professional-grade measuring instruments with a technical report and issuance of troubleshooting recommendations.

WE WILL SUPPLY ANY FACILITY WITH ELECTRICAL ENERGY

≥ 5000 KM

Cable lines built since 2010

≥ 4000 PCS.

Number of laboratory measurement protocols issued to the customer

INSTALLATION AND RECONSTRUCTION OF CABLE POWER LINES

- ✓ Engineering surveys (marking and splitting the road into sections).
- ✓ Trenching and cable laying.
- ✓ Installation of connecting couplings by certified specialists.
- ✓ Commissioning works.

POWER SUPPLY OF INDUSTRIAL FACILITIES

- ✓ Performing of internal and external electrical installation works.
- ✓ Installation of power equipment.
- ✓ Installation of relay protection and automation
- ✓ Lightning protection and earthing

AUTOMATION OF COMMERCIAL AND INDUSTRIAL FACILITIES

- ✓ Installation of automatic system for commercial accounting of power consumption.
- ✓ Installation of automatic process control system.
- ✓ Dispatching and telemetry (SCADA-systems).
- ✓ Parameterization and programming.

LABORATORY MEASUREMENTS AND TESTING OF EQUIPMENT

- ✓ Detection of malfunctions at an early stage using professional measuring instruments.
- ✓ Preparation of a technical report and issuing protocols with troubleshooting recommendations

WE WILL DETECT A MALFUNCTION OF ANY COMPLEXITY

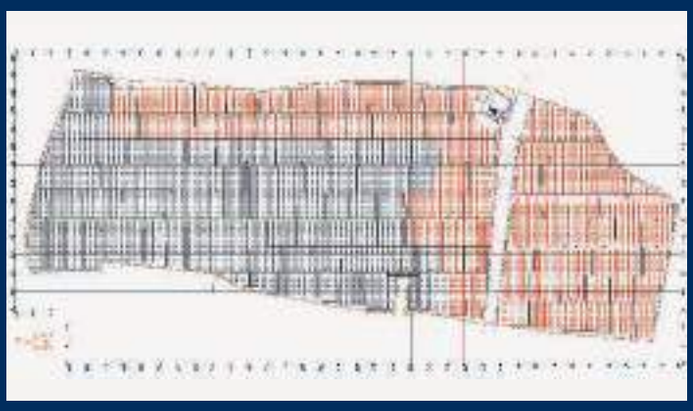
OUR PROJECTS

SPS SOLAR PARK VESELE 16 MW

Development of the detailed documentation and power supply of a solar power station in Zaporizhia oblast

SPS MEREFA 3,9 MW

Construction of a solar power station using ground screws in the Kharkiv oblast



SPS NIKOPIL'SKA 246 MW

Development of the detailed documentation of ½ of the capacity of the Nikopol solar power station for DTEK in Dnipropetrovsk oblast

SPS PHOTON ENERGY 15 MW

Construction of the solar power station in Dnipropetrovsk oblast

SPECIAL EQUIPMENT

Development of trenches, cleaning of construction waste, clearing of the construction site, excavation, construction and road works.

JCB 155

Crane arm on the basis of the MAN

JCB 160

JCB 4-CX

BOBCAT 630

SS (SUBSTATION) NADEZHDYNE

Construction of a high-voltage power station for Zaporizhzhia WPS in Zaporizhia Oblast

SS DNEPR 35/10 KV

Construction and modernization of a high-voltage substation for the greenhouse complex "Dnepr" in the Dnipropetrovsk oblast

SYVASKA WPS

Installation of cable lines for Syvaska wind power station in Kherson Oblast

PETRO CARBO CHEM-MUKACHEVO

Designing and electrical installation works of the complex for reloading of liquefied gases and petrochemicals in Transcarpathian oblast

BOBCAT E26

Tractorhead IVECO

CITROEN JUMPER

FIAT DOBLO

RENAULT TRAFFIC

RENAULT DUSTER