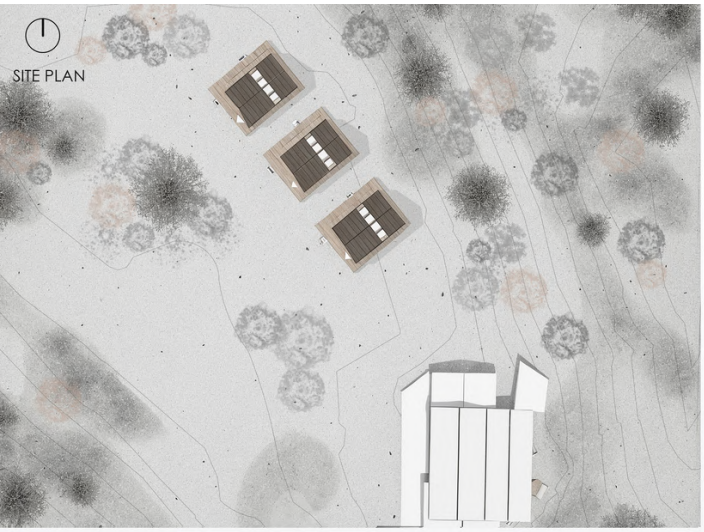
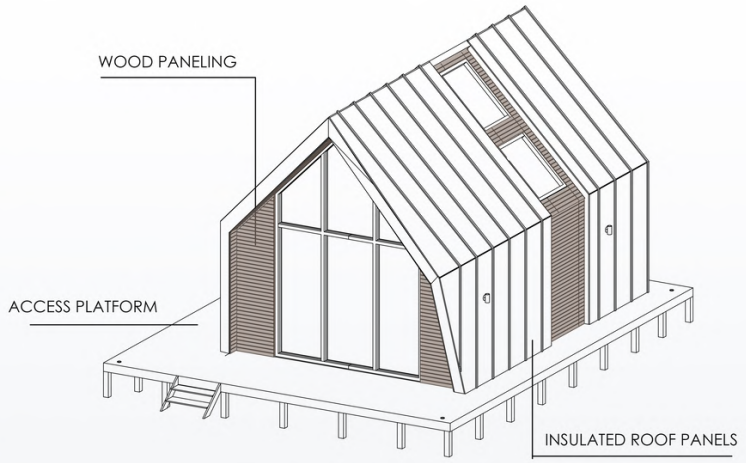
01 KOVK, COL VILLAGE RETREAT

Location: Kovk, Col, Slovenia
45°54'32"N 13°56'06"E
Year: 2024
Area: 63.5 m² each house

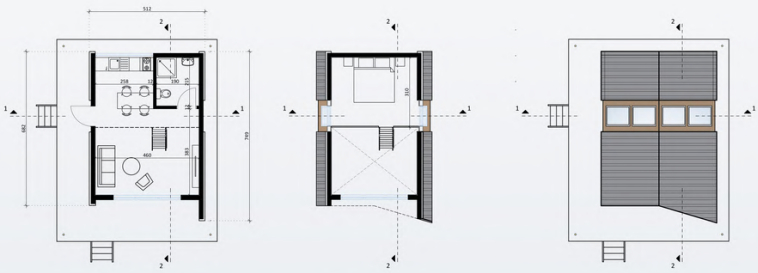
This project consists of three weekend houses situated in the picturesque village of Kovk, Col, Slovenia. Designed for rental accommodation, each house features a bedroom, a double-height living room, a bathroom, and a compact kitchen.

The design harmonizes with the natural surroundings,utilizing energy-efficient materials inspired by the local landscape and steel for the main structure. Nestled in a forested area, these houses offer a tranquil retreat, seamlessly integrating with the environment while providing comfort and functionality for guests.

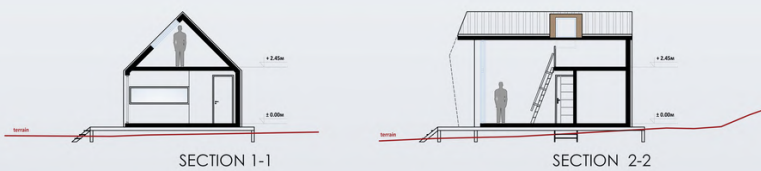

SITE PLAN


WOOD PANELING
ACCESS PLATFORM
INSULATED ROOF PANELS


SOUTHWEST ELEVATION


GROUND FLOOR
FIRST FLOOR
ROOF


NORTHEAST ELEVATION


SECTION 1-1
SECTION 2-2


FULL HEIGHT WINDOWS - VISUAL CONTACT WITH NATURAL SURROUNDINGS
SKYLIGHT
HIGH - SLOPE METAL ROOF
EXISTING BUILDING
ACCESS ROAD

02 WINERY IN SLOVENIA

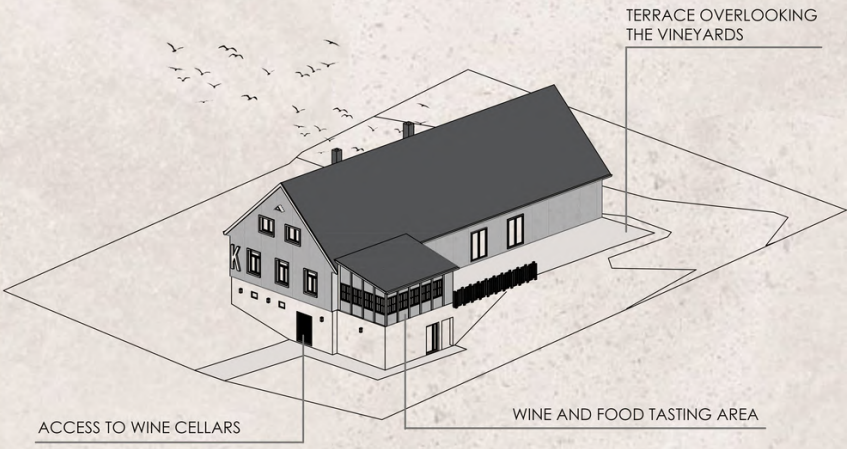
Location: Slovenia

Year: 2024

Area: 921 m²

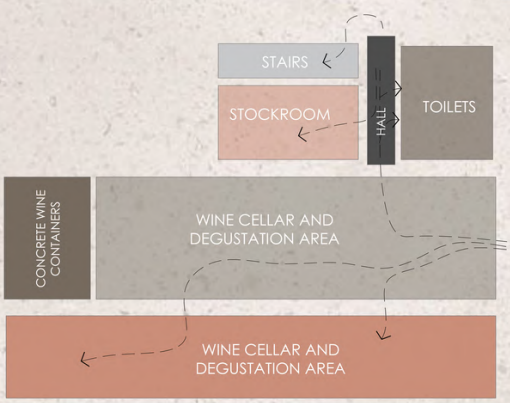
This project focuses on the careful reconstruction of a historic 19th-century building located in the scenic region of Eastern Slovenia, transforming it into a modern winery experience. While preserving the building's timeless charm and heritage, the design introduces contemporary features that cater to wine enthusiasts, travelers and connoisseurs.

The project does not involve wine production; instead, it focuses on creating an elegant space for wine tasting, accommodation and retail experiences. The wine tasting area is an inviting focal point, crafted with warm, rich materials, such as natural wood and soft fabrics, creating an intimate setting. The design carefully retains the existing brick walls, giving the space a timeless, rustic feel, while the wood beams on the ceiling add a sense of warmth and history. These architectural elements are preserved and highlighted to create a balance between the old and the new.

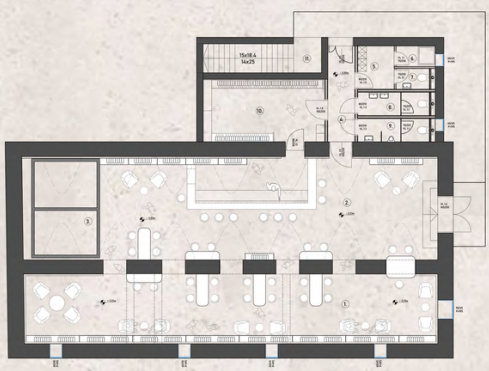


The design concept for the interior space of the wine tasting area, wine shop, and accommodation focuses on creating a warm and inviting atmosphere through the use of a natural color palette, including warm tones and the integration of natural wood and existing bricks to enhance the space's character. The philosophy behind the design is to evoke a sense of comfort and relaxation, fostering a welcoming environment for visitors to enjoy the pleasures of wine tasting. Incorporating passive design principles, the space is designed to maximize natural light and ventilation, ensuring a sustainable and energy-efficient environment. By seamlessly blending the existing architectural elements with the warm color palette and natural materials, the design seeks to maintain the authentic charm of the space while providing a contemporary and elegant setting for guests to indulge in the experience of wine.

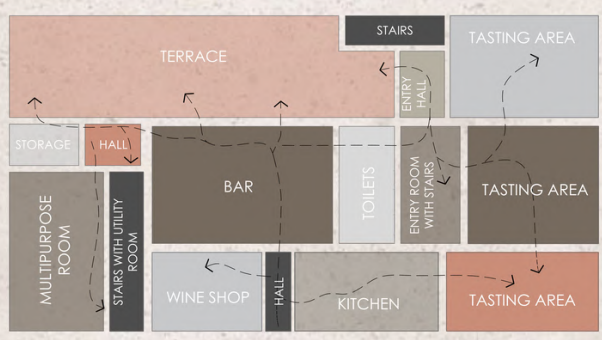
SECTION



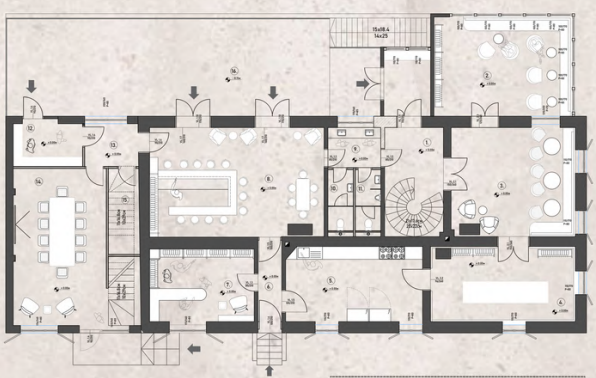
BASEMENT -3.23m



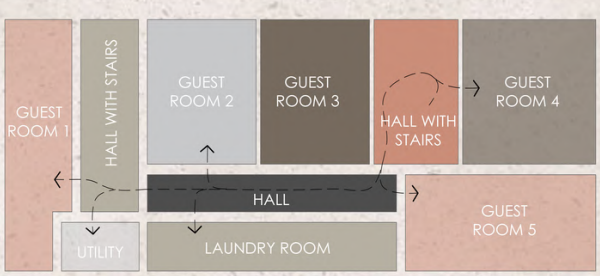
BASEMENT -3.23m



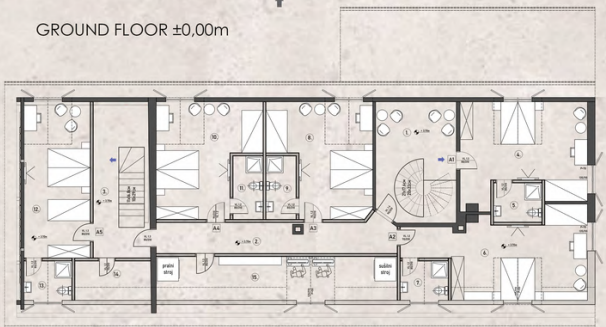
GROUND FLOOR ±0,00m



GROUND FLOOR ±0,00m



FIRST FLOOR +3,70

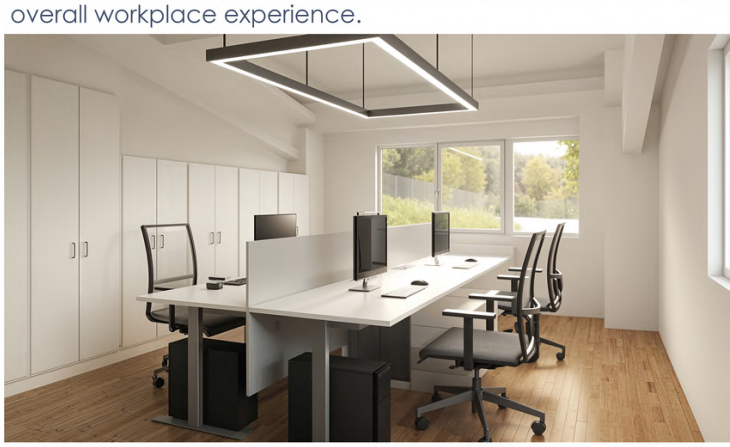


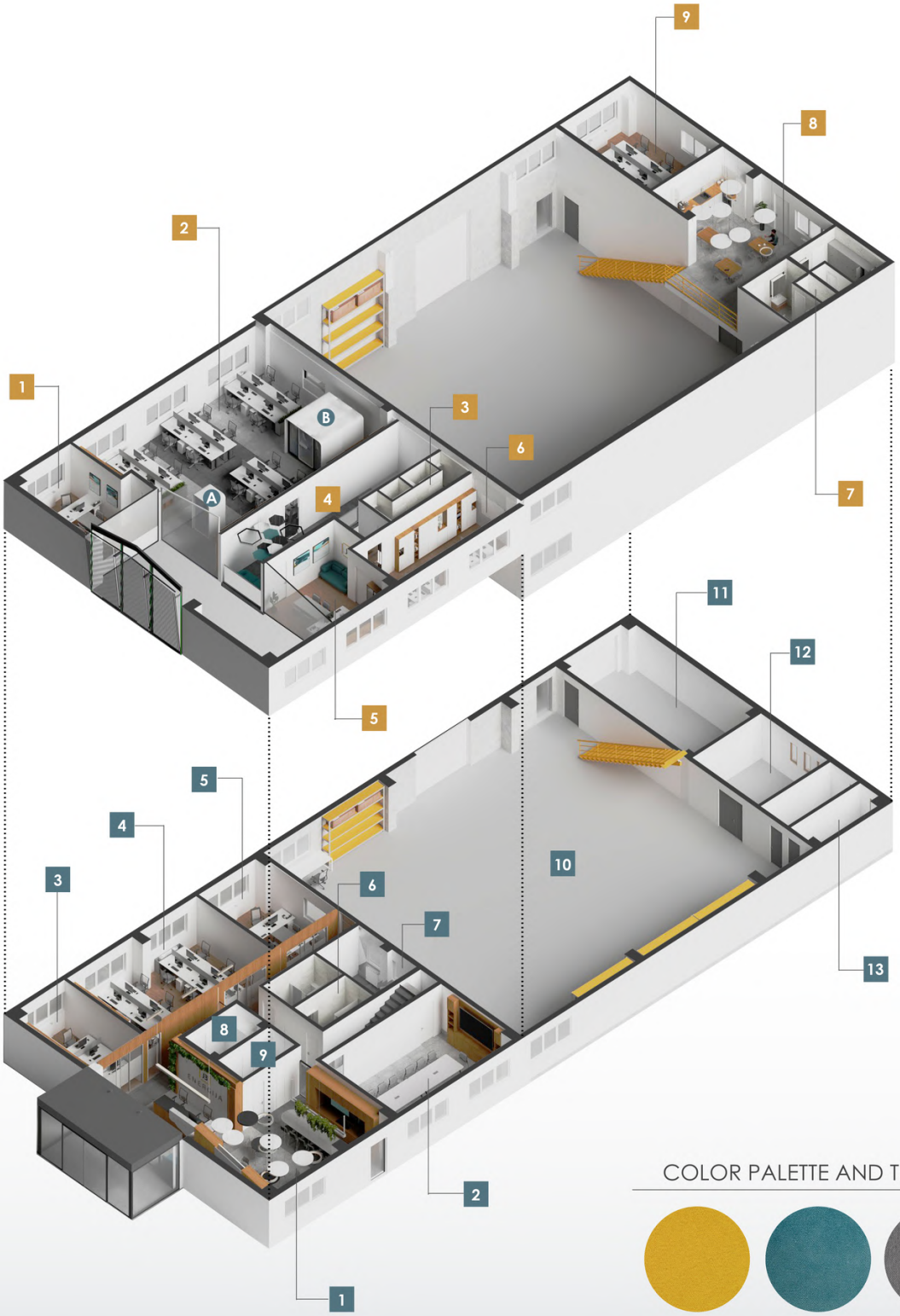
FIRST FLOOR +3,70

03 JB ENERGIJA d.o.o

Location: Jesenice na Dolenjskem, Slovenia
45°51'28"N 15°41'23"E
Year: 2023 - 2024
Area: 1442 m²

The project developed a design of a multifunctional space that meets the needs of different areas of the company to optimize both functionality and employee well being. The industrial hall includes dedicated office spaces with 38 workstations and common areas, with direct access from the production area to the offices to enhance internal communication. The interior design is carefully crafted to meet the needs of the employees.
The layout promotes a productive work environment, while the color palette—featuring tones suited for workspaces—creates a balanced and inspiring atmosphere. The design integrates contemporary elements that not only support the company's operations but also elevate the overall workplace experience.





FIRST FLOOR

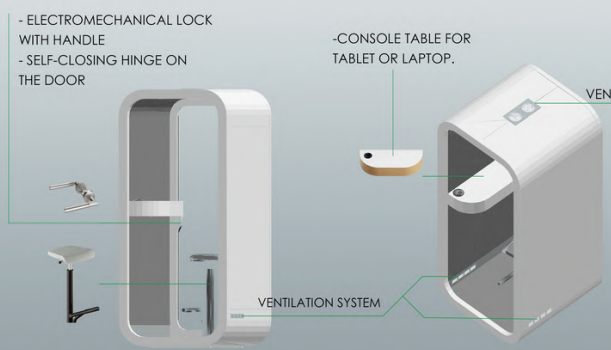
1. MANAGER OFFICE
2. OPEN OFFICE (16 employees)
3. TOILETS
4. STAIRS AND LOBBY
5. MANAGER OFFICE
6. OPEN OFFICE (4 employees)
7. WARDROBES
8. LOUNGE AREA
9. OPEN OFFICE (4 employees)

GROUND FLOOR

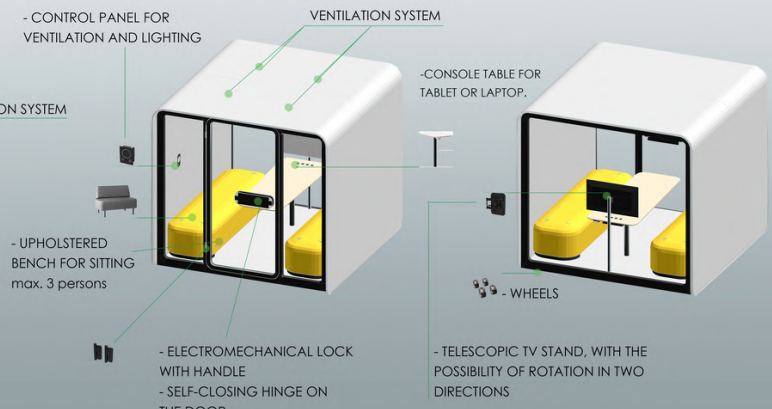
1. INFO DESK AND LOUNGE AREA
2. MEETING ROOM
3. SECRETARY AND ACCOUNTING
4. OPEN OFFICE (8 employees)
5. MANAGER OFFICE
6. TOILETS
7. OFFICE
8. ARCHIVE AND PRINT ROOM
9. MECHANICAL AND ELECTRICAL ROOM
10. PRODUCTION AND STORAGE AREA
11. WAREHOUSE
12. TECHNICAL ROOM
13. TOILETS

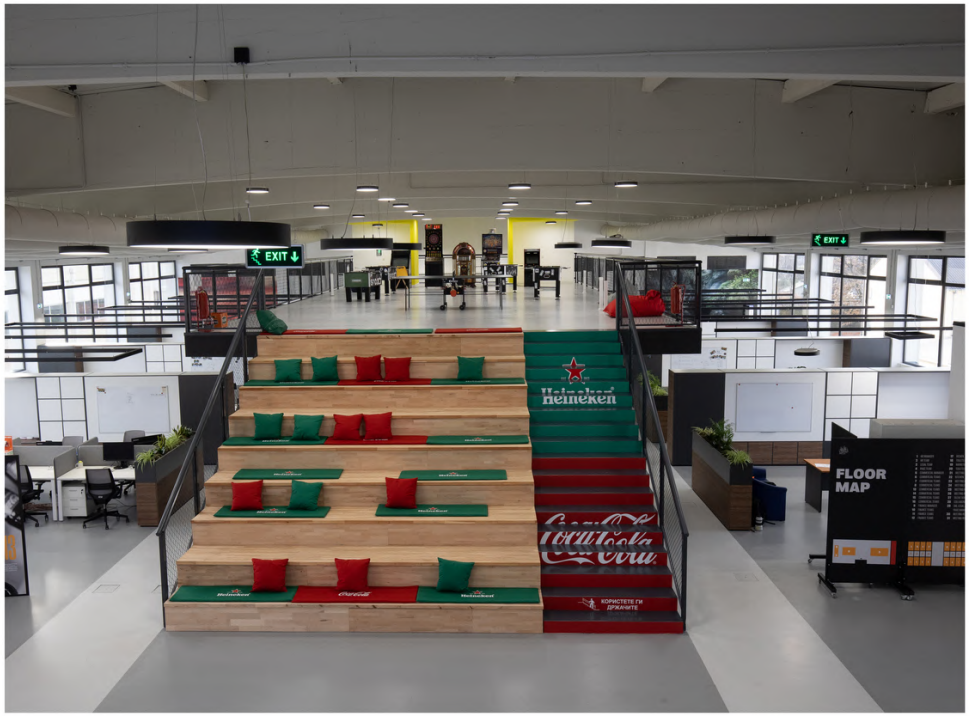
COLOR PALETTE AND TEXTURES

A OFFICE BOOTH FOR ONE PERSON



B OFFICE BOOTH FOR MEETINGS

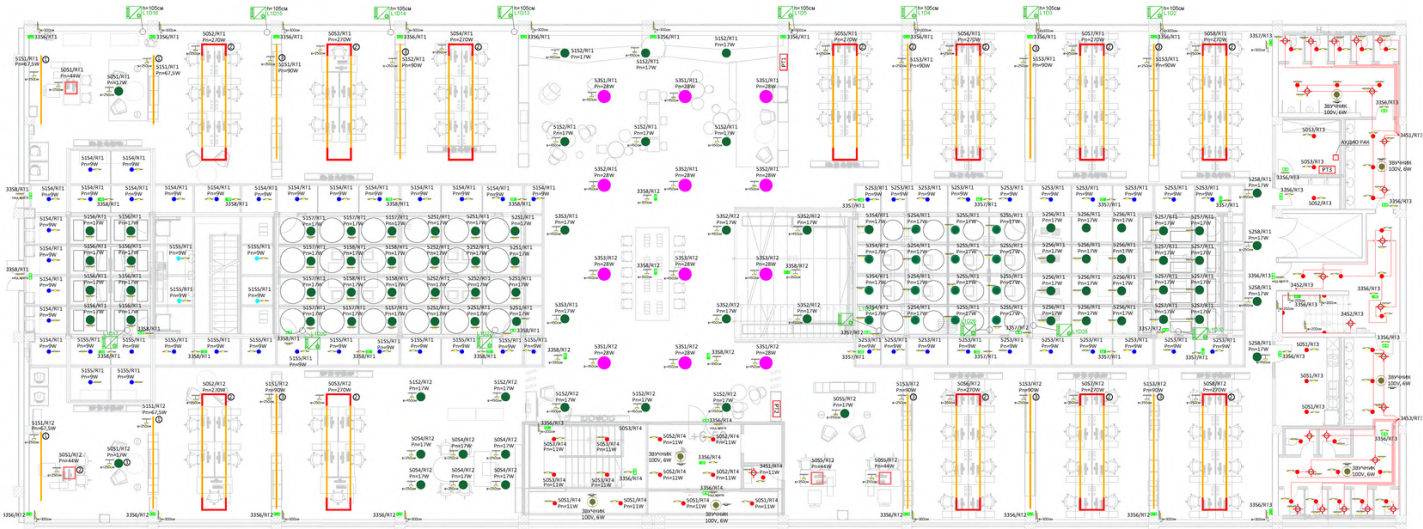


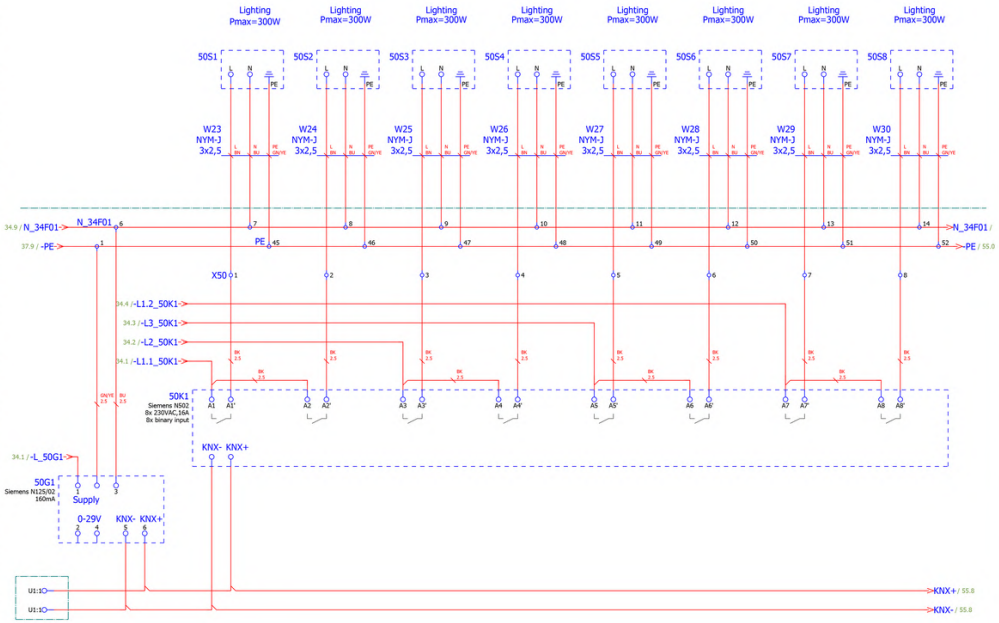


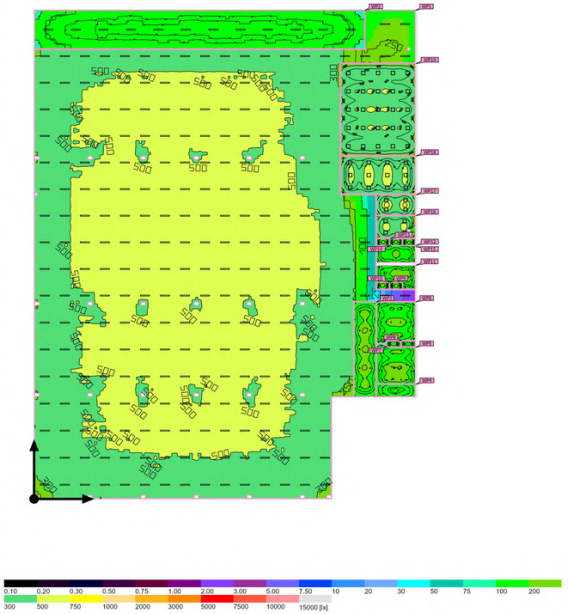
01 ELECTRICAL DESIGN AND INSTALLATIONS

Our general electrical design and installations are tailored to meet the specific needs of each project, ensuring **safety, efficiency, and reliability.** We begin with detailed simulations, including photometric calculations, to assess system performance and optimize lighting designs. Comprehensive project drawings are then created to cover every aspect of the installation.

Our approach includes precise cable sizing and the integration of electrical components, ensuring that all systems operate at peak efficiency. We provide both single-line and multi-line diagrams to clearly illustrate electrical connections and layouts.





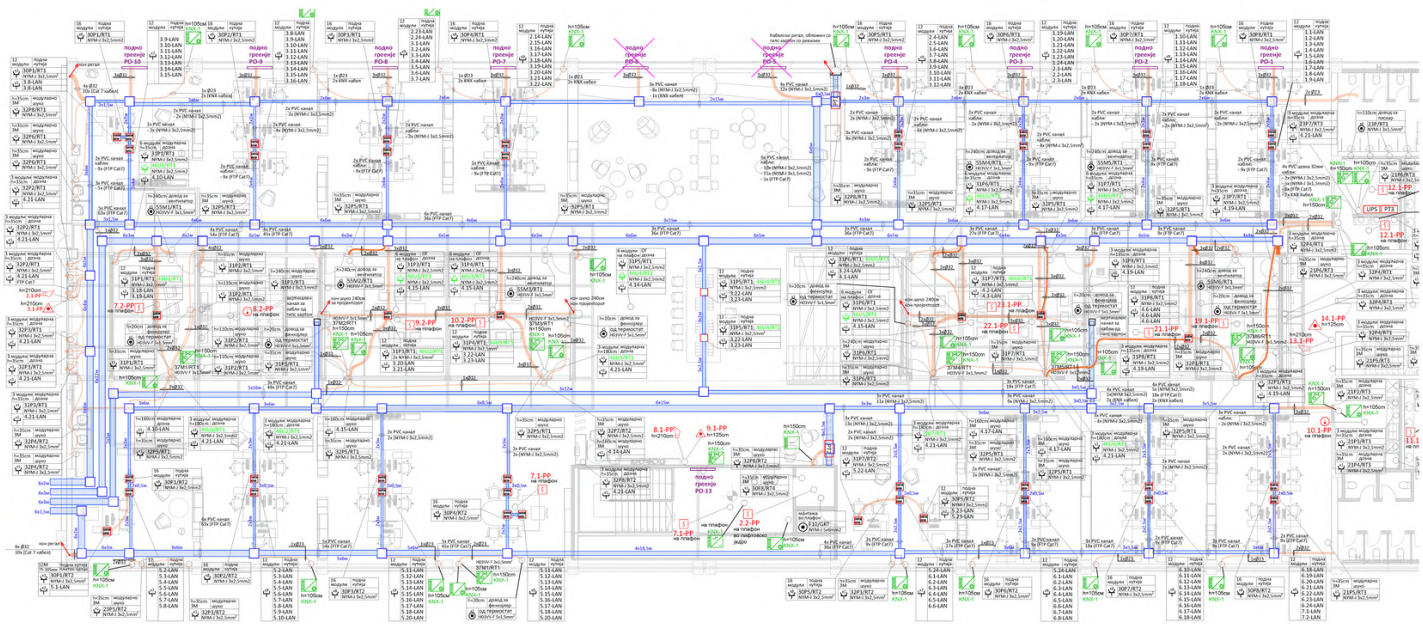


Our scope of design include:

1. Cables calculations using SIEMENS SIMARIS
2. Lighting design using DIALUX
3. Wiring diagrams using CAD PROFI software
4. Cable tray design using CAD PROFI software
5. LAN cabling
6. Fire alarm and safety installations
7. Lightning and grounding installations

Additionally, we design equipment layouts for distribution boards and ensure optimal placement of electrical systems throughout the project.

Our team focuses on creating safe, functional designs that meet industry standards and regulations. Whether for residential, commercial, or industrial applications, our solutions deliver high-performance results, tailored to the unique needs of each space.



02 PHOTOVOLTAIC SYSTEMS

Our photovoltaic projects are meticulously designed to ensure efficiency and reliability at every step. We begin with detailed simulations to model system performance, followed by comprehensive project drawings that outline every component.

String optimization is applied to maximize energy output, while precise cable sizing ensures safe and efficient power transmission. Our work includes both single-line and multi-line diagrams, providing clear visualizations of the electrical setup.

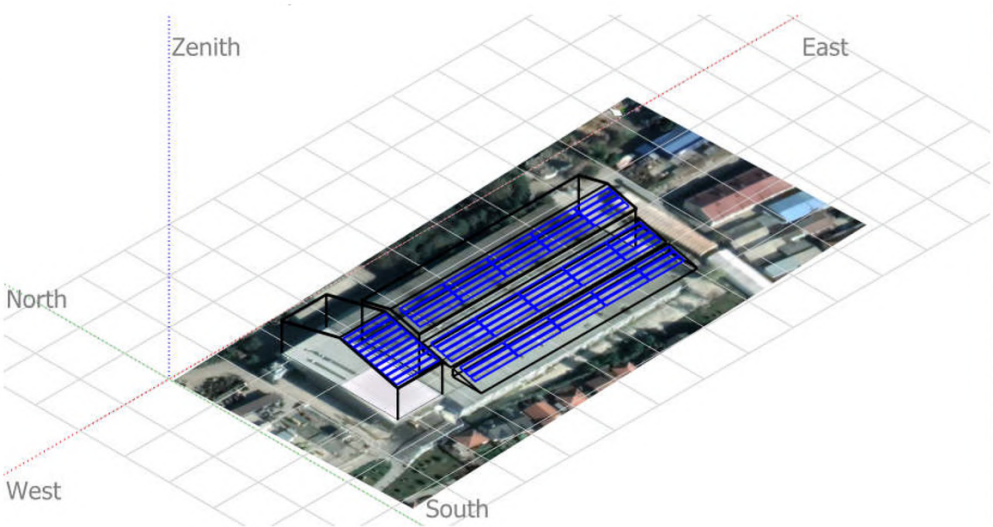
We carefully plan equipment layouts for distribution boards and cable tray systems, ensuring seamless integration.

Additionally, we implement equipotential installations to guarantee safety, and design the mounting system to optimize panel positioning.

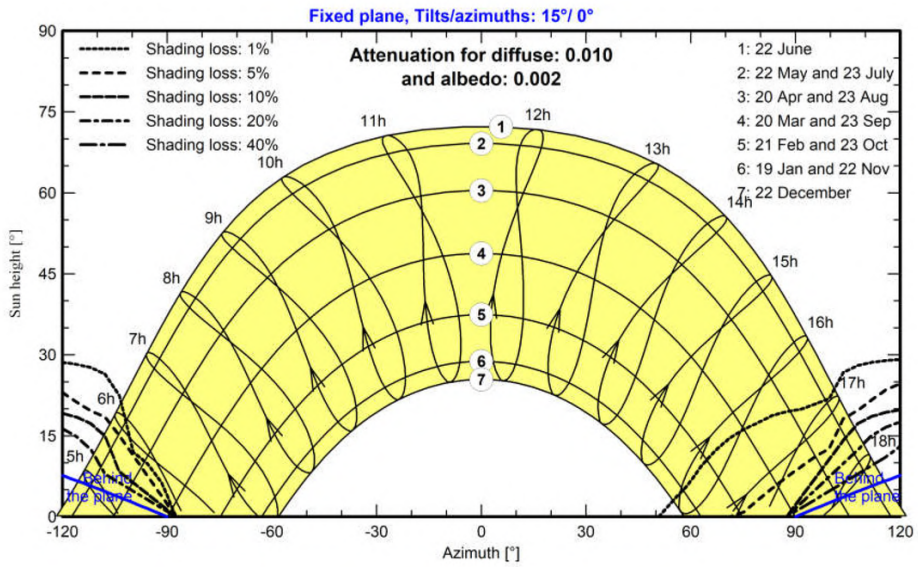
To further support our clients, we provide comprehensive return on investment calculations, offering clear insights into the financial benefits of their photovoltaic investment.

Near shading parametar

Perspective of the PV-field and surrounding shading scene



Iso shading diagram

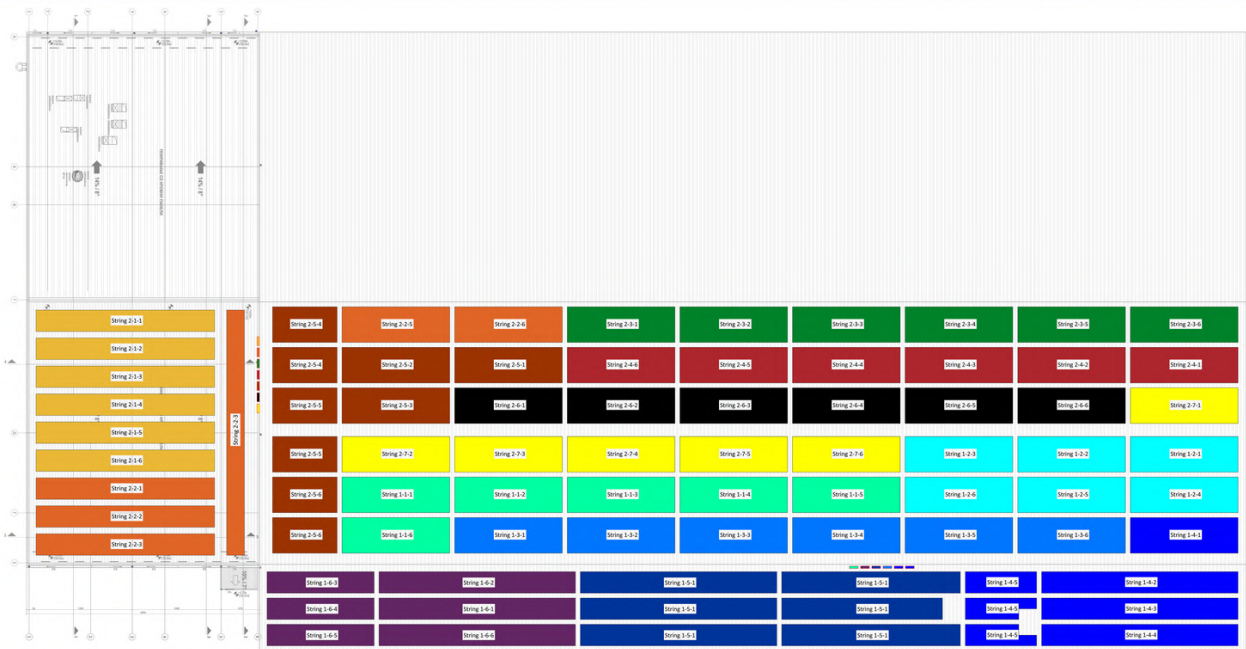


Photovoltaic Power Plant Description:

To ensure balanced loading of the two substations within the industrial building, the electricity production from renewable sources is divided into two groups.

Group 1 consists of 6 inverters and 688 photovoltaic modules, while **Group 2** is made up of 7 inverters and 850 photovoltaic modules.

An aluminum substructure has been used for the installation of the photovoltaic modules, ensuring durability and optimal performance.



03 KNX AUTOMATION INSTALLATIONS

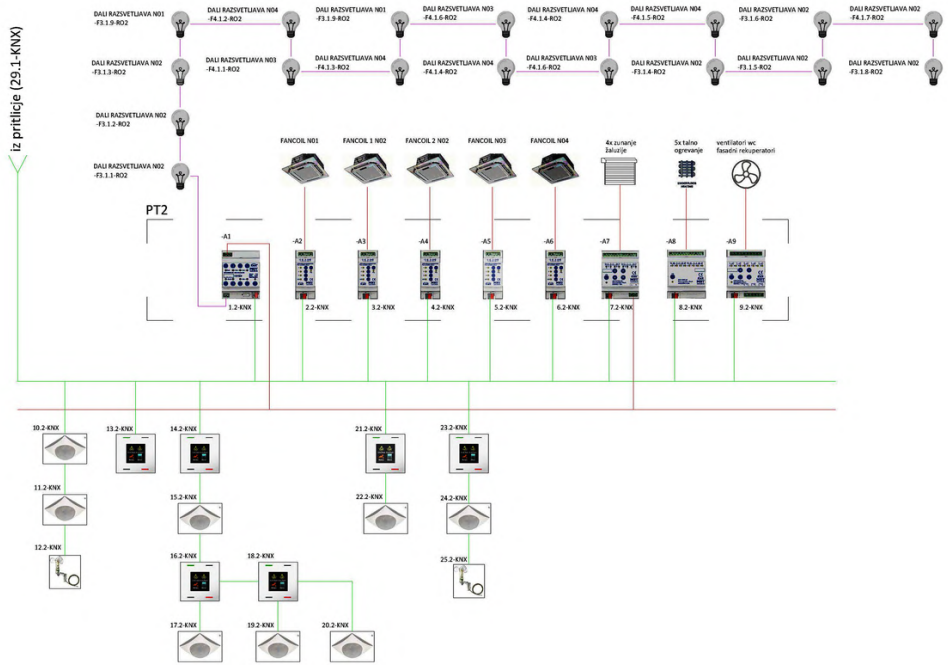
KNX automation installations accomplished by us, are designed to enhance comfort, energy efficiency, and increase security through intelligent control systems.

Using the KNX standard, these systems enable seamless integration of various devices and sensors, allowing for centralized and intuitive control via user interfaces or automation.

We start by conducting thorough simulations to ensure optimal system performance, followed by detailed project drawings that define each aspect of the installation.

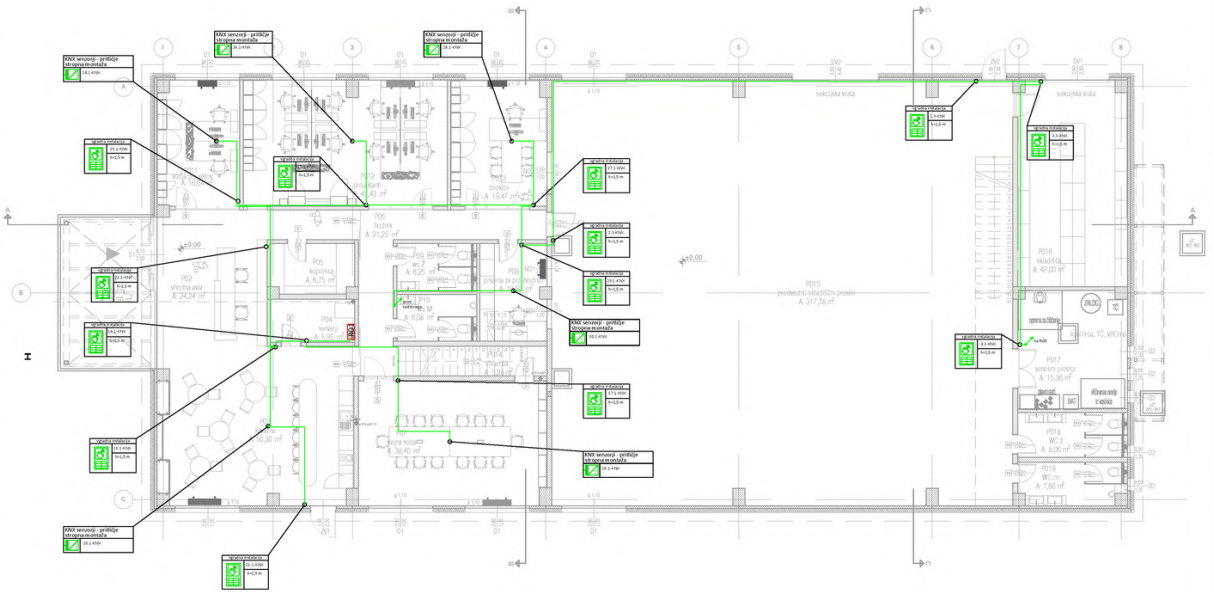
Our process includes precise planning for cable sizing and the integration of control devices. We create both single-line and multi-line diagrams to clearly visualize the electrical and data connections.

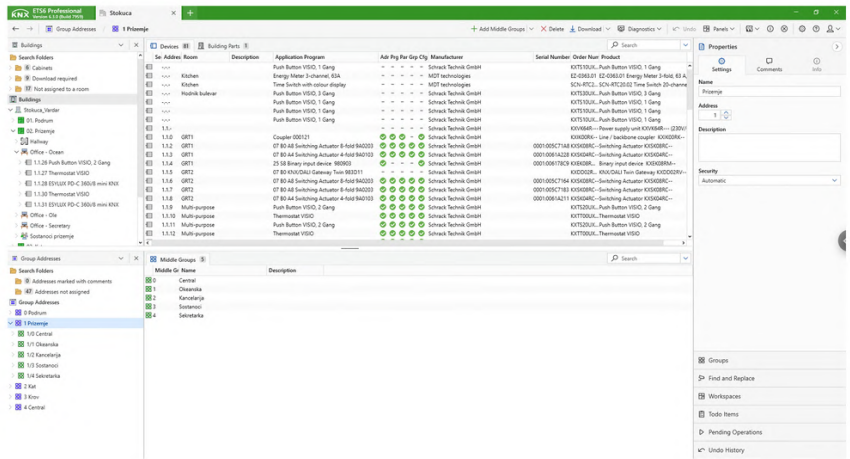
Furthermore, we design equipment layouts for distribution boards and offer advanced visualization design to allow users to interact with and control their systems seamlessly through intuitive interfaces.



Our solutions include customized programming for KNX devices, ensuring smooth integration across a range of functions, including lighting, heating, and security systems.

To provide clients with a clear financial outlook, we deliver detailed return on investment calculations, demonstrating the long-term savings and benefits of a KNX automation solution.

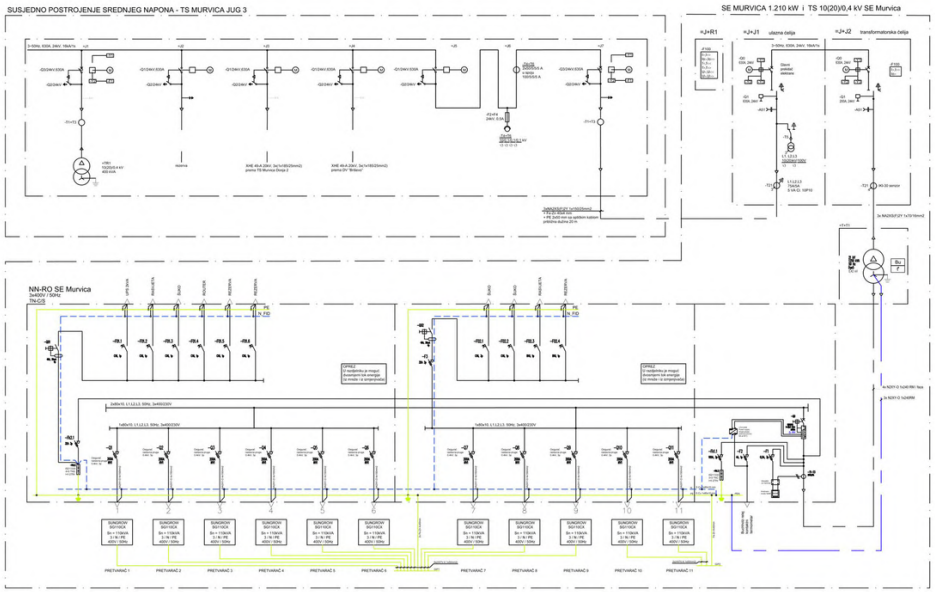




04 TRANSFORMER STATION

Our team of designers and engineers is capable of preparing:

- Design and selection of equipment for any kind of distribution transformer station up to 35 kV
- Design and selection of equipment of cable supply lines up to 35 kV
- Civil design for transformer station building
- Calculations of busbars, cables, transformer cooling and grounding system
- Wiring diagrams
- Purchase of equipment, installation and commissioning of MV block, transformer and LV cubicles



Our references include at least:

- 2x1,6 MVA transformer station for aluminium casting company
- 1x800 kVA transformer station for sensor production company
- 1x800 kVA transformer station for plaster production company
- 1x1,25 MVA transformer station with SCADA for solar power plant