

## Product lines Intelligent solutions for the future



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Iskra is a globally recognized provider of intelligent industrial solutions and cuttingedge electro-technical products

We are Iskra, a family-owned enterprise with a rich history spanning almost 80 years. Our journey began in Europe, where we laid down our roots, and from where we've grown into a globally recognized name in the field of cutting-edge technology. At the heart of Iskra is the Šešok family, the driving force behind our vision and core values. Led by Dušan Šešok and his sons, Klemen and Matija, we pride ourselves on a leadership that combines decades of experience with youthful innovation.

We are inspired by tradition, enlightened by professional knowledge and driven by a commitment to **continuous innovation**, always seeking to push boundaries and stay ahead in our field. Decades of industry knowledge and our **customer-centric business approach** have enabled us to always offer customers more, creating value in every aspect of our relationship with them.

With over 10.000 products in our portfolio and a wide presence in over 100 countries with millions of installations per month, Iskra products are one of the most trusted components in the industry.

## OUR ENVIRONMENTAL, SOCIAL AND GOVERNANCE POLICY



As a sustainability advocate, I am excited to share our visionary approach to Environmental, Social, and Governance (ESG) practices. At Iskra, we believe that sustainability is not just a checkbox but a guiding principle that drives our decision-making and shapes our business strategy. We recognize that addressing the pressing challenges of our time, such as climate change, resource scarcity, and social inequality, is not only the right thing to do but also essential for our long-term success. I am deeply committed to embedding sustainable practices into every aspect of our operations. From implementing energy-efficient technologies and reducing our carbon footprint to promoting diversity and inclusion, we strive to create positive and lasting impacts on the environment, our employees, and the communities we serve.

### Klemen Šešok

Chief Future Officer and Sustainability Advocate





Iskra is a proud investor in ALFI Green Energy Fund, a specialized investment fund that invests in on-shore wind and photovoltaic power plants in SEE (Slovenia, Croatia and Serbia). With the latest project Krivača wind power plant, 75,000 households will be supplied with the green energy, and will decrease CO2 emissions for 120,000 tons per year.



Our R&D departments are intensively engaged in the development of products with a sustainable purpose, such as smart energy meters that allow the end user to analyze energy consumption for the best possible efficiency, and smart gateways that enable the control of various energy consumers to predefined settings, or pulses from sensors.

We strive to provide equal opportunities for all people, regardless of gender, nationality, race, disability, age or other personal characteristics, and thus strives to promote an inclusive work culture through open communication and diversity.



Based on the actual data, at Iskra are currently employed 49.55% of men and 50.45% of women. Also, 15.83% are foreigners, including people from Iran, Somalia, Balkan countries, etc. The feeling of inclusion is also indicated by the fact that we founded a subsidiary company, Iskra IP d.o.o., where we employ highly qualified individuals, most of whom (59.72% in 2023) have the status of persons with disabilities.

## SUSTAINABLE DEVELOPMENT GOALS

At Iskra we view the SDGs as an important accountability and measurement mechanism, and as such we are committed to advancing specific SDGs that align with our strengths as a business and our ability to make an outsized impact.

## We have stated our alignment with the following SDGs:











- → SDG6 Clean Water and Sanitation
- → SDG7 Affordable and Clean Energy
- → SDG9 Industry, Innovation, and Infrastructure
- → SDG12 Responsible Consumption and Production

In keeping with our commitment to advance our ESG program, we have identified one additional goal that aligns with our effort to mitigate climate change and identify risks and opportunities

→ SDG13 Climate Action

In 2023 alone, we successfully reduced emissions across all three scopes by 830 tons, representing over a 10% reduction from the previous year, despite experiencing company growth. This reduction was achieved through waste reduction, lower energy consumption, and additional investments in battery storage systems, PV systems, and new energy-efficient machinery.



#### 830 t CO2

over 10% decrease in emissions avoided in 2023



#### 2.6 MWp

portfolio of own commercial scale solar PV systems



#### Water purification

aquisition of ELMAP waste water filtration company



### All-hybrid

car fleet to be converted by 2030

## **PRODUCTS FOR EV CHARGING STATIONS**

Energy meters WM3M4, WM3M4C, IE14, IE38Mx





### Capacitors

MKP, MKT, X2, Y2, Snubber, DC links







### Residual current circuit breakers (RCCB)

Type A, Type B, Overcurrent protection





#### Installation contactors





Miniature circuit breakers (MCB)

We provide top-quality components for electric vehicle (EV) charging stations and solutions for automotive applications, considering a diverse selection of electronic capacitors specifically designed for EVs.

Recently, we also have our own EV charger in the assortment, which consists of Iskra's components. With an Eichrecht-compliant energy meter inside, we have been able to provide transparent measurement data for delivered energy, ensuring full visibility of the amount of energy consumers are paying for charging.



### ► WM3M4C

Award-winning Eichrecht compliant smart energy meter.



## SOLAR POWER APPLICATIONS

We strive to make solar power more efficient and sustainable by assisting our clients in maximizing their energy usage. Iskra components are used by production facilities, power plants, and electro distribution companies worldwide.

Among our components for photovoltaic applications are Solar panel boxes, Energy meters, Capacitors, Protection switches, Residual current circuit breakers and Switch disconnectors. Also, we provide a wide range of Dynamic reactive power compensation and Power factor correction systems to enhance the power factor and avoid power factor penalties. We are constantly innovating to deliver valuable energy solutions in a rapidly changing industry.









Solar power applications

Maximized service continuity while reducing costs and resources







Automation and digitalization via predictive analytics and remote monitoring







**Increasing Energy** Efficiency by avoiding power losses







Savings of up to 20% on operational costs through energy management system









Optimizing the use of assets by taking the right business decision

**Residual Current Circuit Breakers** 





# WIND POWER APPLICATIONS

Wind power is a clean, renewable source of energy that can be used to power businesses, homes and entire communities.

Dedicated to delivering innovative technology and environmentally friendly options for renewable energy sources, Iskra manufactures a wide range of components intended for wind turbine applications.

Iskra Wind Power Applications include Wind equipment, Power quality & electrical parameter systems, Capacitors, Capacitor duty contactors, and Power factor controllers.

## AC/DC general purpose capacitors







## Metering equipment



### Wind turbine supervision & control







### Low voltage switchgear for elevator







### **Protection relays**

FPC680, CAU380



► All components are fully tested, approved, and certified by national and international bodies.

### Power factor correction systems



## RESIDENTIAL INSTALLATIONS

The purpose of low voltage switchgear in residential installations is to ensure safe and efficient distribution of electrical power within a building, while also providing over-current protection, short-circuit protection, and other safety features.



Switch disconnectors



Latching relays



Installation contactors



Residual current devices



Miniature circuit breakers



Time and monitoring relays



Surge protection devices



Distribution boards



Industry installations

## **INDUSTRY INSTALLATIONS**

Low voltage switchgear refers to electrical equipment used to control, distribute, and protect electrical power systems and it is commonly used in industrial installations to control the distribution and use of electrical power in facilities such as factories, power plants, and commercial buildings.

Mini contactors



Capacitor duty contactors



Motor contactors





Moulded case circuit breakers



Motor protection switches



Miniature circuit breakers





## MEASURING INSTRUMENTS

Iskra manufactures and supplies a wide range of electrical measuring instruments, used for measuring power, intensity, resistance, and voltage, making it possible to confirm the proper operation of machines and installations and identify the consumption characteristics of a certain electric energy service.



Universal measuring devices







Measuring transducers& supervision relays





Synchronization devices





Energy meters







Smart gateways







Analog meters





Miqen settings software



### **CAPACITORS**

Iskra manufactures and supplies a wide range of power electronic capacitors which can be used for various functions in electric circuits. We also have Power Factor Correction (PFC) equipment and a diverse selection of power capacitors, which are one of the most practical solutions to increase system power quality.



- Snubber, switching capacitors
  KNO, KNP
- ► DC link capacitors

  KNG
- Power capacitors, Surge protection capacitors
- Low voltage power capacitors
  KNK
- ► Capacitors for audiofrequency remote control
- Induction heating capacitors
  KLS
- Capacitors for power electronics
   KNI
- Motor starting and motor running capacitors KNM
- Capacitors for use in electronics
   KEU, KNI, KNU
- Capacitors for use in motor-driven applications
   KEA, KPA
- Capacitors for use in automotive electronics MKP
- ► Filters for radio interference suppression KPB, KNB, KNR, KPR, KPL, KNL
- Capacitors for use in EV charging stations
   MKP, X2, Y2
- Power factor correction KEU, KNI, KNU

## POWER FACTOR CORRECTION

Lower your energy costs with lower effect of reactive energy of electrical devices.

- Power factor correction capacitor banks decrease electrical energy costs and increase system voltage
- Using power capacitors is one of the most practical solution to increase system power quality
- ▶ Power capacitors are a maintenance free and inexpensive source of reactive energy needed in every inductive electrical system



High voltage power capacitors



PFC capacitors for low voltage



Power factor control relay



Capacitor duty contactors

# The benefits of power factor correction



Improve the quality of the electrical network at a site



Compliance with grid operator / DNO requirements



Increase reliability, longevity and lifespan of equipment



Reduce your energy costs



Inherently reduce CO<sub>2</sub> emissions

## POWER AUTOMATION AND PROTECTION

#### Brace your power. Improve your energy use.

Iskra provides holistic industrial solutions (instrumentation, software packages and services) for energy sector to help you achieve the most ambitious and challenging targets.

Protection relays FPC 200, FPC 400



► Protection and control relays FPC 680, FPC 680i



► Bay computer
CAU 380



Control data acquisition software

MCE 940



System communication unit



Extension communication unit



Power System Manager NEO3000



Miqen Settings Studio Device management software



Target the problems in power use



Optimize energy consumption



Control power quality



Prevent potental costly damage



Plan your future energy use

## ELECTRONICS MANUFACTURING SERVICES

- Design & Engineering services
- Manufacturing SMT and THT assembly
- Conformal coating
- Quality control
- Programming and testing
- ► Reliable Logistics system
- After-sales services

Decades of experience in the production and integration of complex products and solutions have enabled Iskra to become an EMS provider, with the highest quality standards. In accordance with the European RoHS directives, we switched to lead-free soldering (Lead-Free/Pb-Free). In addition to dedicated competencies within electronics production, we offer strong logistics capabilities, ensuring on-time delivery to customers worldwide.

The production of electronic units takes place in the following two ways, **SMT** (**Surface Mounting Technology**) and **THT** (**Through Hole Technology**), and uses the latest generation of machines in terms of assembly speed and precision, also in terms of the ability to detect the smallest defects.



### Industry solutions

## **ELKA CABLES**

ELKA is a leading energy cable producing company at the markets of Croatia, Bosnia and Herzegovina, Slovenia, and beyond.

Using the knowledge and experience we have been developing since 1927, we offer innovative, high-quality products and services, creating added value for our customers and end users. We are proud that our clients recognize our quality, expertise and reliability.

With the own R&D department and constant investments in new capacities and modernization of existing ones, we have grown into experts in the development and production of special cables for the modernization of railway infrastructure, airports, TV and film industries, and special cables for the Airbus aircrafts. We are successfully fulfilling our mission of maintaining a leading role in the region and expanding our business to other foreign markets.

#### Quality is essence to our business.

When it comes to the quality, we make no compromises. Our products are developed, constructed, manufactured and delivered by our strict in-house rules and in accordance with internationally recognized standards.



Quality management system ISO 9001:2015



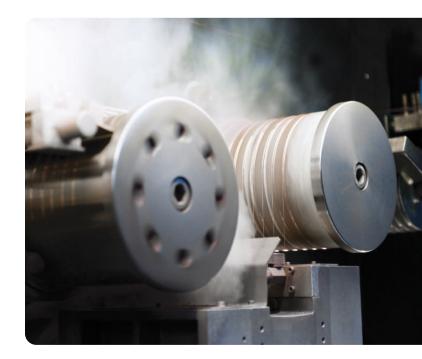
Environmental management system ISO 14001:2015



Occupational health and safety management system ISO 45001:2018



**Energy management system** ISO 50001:2018



- ► Low voltage power cables
- Medium voltage power cables
- High voltage power cables
- Rubber signaling railway cables
- ▶ Rubber track feeder railway cables
- Telecommunication cables
- Aluflex Aluminium flexible cables
- Shipboard and offshore cables



### Explore Iskra products and solutions





Product lines
Intelligent solutions for the future





Smart Energy Meters leaflet





Products for electric vehicle charging stations





**Capacitors** brochure package





Power Electronic
Capacitors





Power Factor Correction Equipment for Low Voltage





Power Factor Correction Equipment for High voltage

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