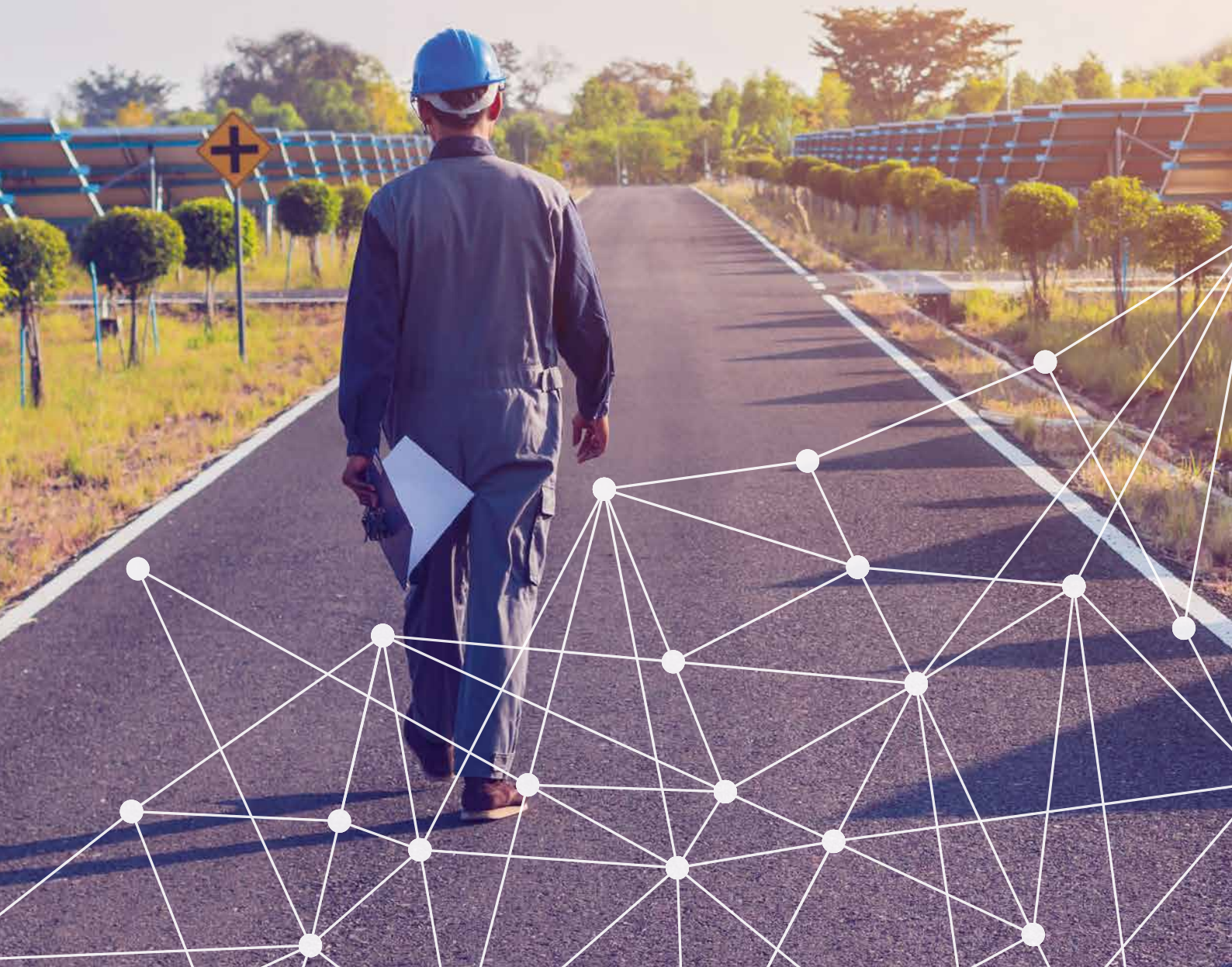


# Innovative connections for a smart future.



# Reliability for smart power distribution

Making energy distribution systems safe: for over 90 years, this has been EFEN's commitment.

Whether you operate in the field of industry, infrastructure or in the power supply sector, EFEN is your trustworthy partner for customized integrated solutions. Your benefits: Excellent plant reliability and superior performance. In close cooperation with you, we design systems that match your requirements and enhance energy efficiency and reliability in grid operation.

## Safety interfaces from the specialist

EFEN offers circuit protection systems adapted to the respective field of application. Your company benefits from: Reliable grid operation as well as safe shut-down in the event of overloads or short circuits to protect people and investments and maximize plant availability. EFEN provides cost-optimized safety systems – tailored to each specific application. EFEN ensures the necessary transparency through systematic and comprehensive measurement and monitoring,

## Efficient energy distribution

Feeding in energy from renewable sources causes increased loads in the distribution network. EFEN's complete product range serves as the backbone for systematic collection and monitoring of all energy efficiency data. Our end-to-end solutions cover the entire process from power generation and storage to power distribution

## Reliable protection despite increasing disturbances

The number of decentralized providers of energy generated by solar plants, wind farms or biogas plants is steadily increasing, adversely affecting grid quality. In addition to the bidirectional flow of energy, harmonics have turned out to be a factor of significant effect. Thanks to the extensive engineering know-how, EFEN considers these implications for all solutions offered.

A network diagram consisting of a series of interconnected nodes (represented by grey circles) and lines (represented by grey lines). The nodes are arranged in a roughly horizontal line, with some branching out to the left and right. A large orange circle is positioned on the right side of the diagram, partially overlapping the network lines.

## Our range of solutions:

- NH fuse-links
- Power distribution components
- Metering and power management
- Distribution systems



# A clear edge through efficiency and quality

Performance and quality with energy – this is what uesa stands for.

Customer-specific solutions for electric and switchgear systems Schaltanlagenbau are the core competence of uesa GmbH. A wide range of products and services from copper and sheet-metal fabrication to electric system control and wiring distribution, combined with a high level of in-house production, allows us to respond to our customers' needs with maximum flexibility.

## Switchgear you can rely on

We plan, fabricate and assemble electrical equipment for the industry and the energy supply sector. Our portfolio includes energy distribution systems, cable distributors, transformer stations, low-voltage switchgear, medium-voltage switchgear up to 24 kV as well as automation and central control systems.

## E-mobility competence

We create customized solutions from the first joint idea to the development of a meaningful concept up to the fabrication of the product and the delivery logistics. In doing so, we benefit from a wide range of applied technologies and system solutions on site and our established network with partner companies.

## Comprehensive service range for solar farms

The profitability of a solar farms depends on continuous service and maintenance. Our qualified service staff ensures the optimal operation of your system through comprehensive monitoring and service, including thermal imaging.

A background graphic consisting of a network of grey lines connecting various grey circular nodes, resembling a circuit board or a data network. A large red circle is overlaid on the right side of the page, containing text.

## Our production portfolio:

- Outdoor distribution boxes
- Low-voltage systems
- Medium-voltage systems
- Transformer stations
- Component manufacturing
- Services for solar plants
- E-Mobility

# Innovative connections for a smart future.

When it comes to reliable power supply, replacing nuclear power with renewable energy and e-mobility are the two great challenges. Our energy infrastructure originates from a time of regulated energy markets and centralized power generation. Regulatory requirements concerning carbon neutrality demand extensive adjustments of the power distribution grids.

Constant change makes innovative solutions inevitable to ensure that power supply meets the demand in the future. The decentralized and greatly fluctuating output of renewable sources

as well as severely changing load profiles call for smart solutions to facilitate profitable operation. uesa joining forces with EFEN results in innovative solutions made to measure. Your benefit: flexible and powerful plants. These systems are designed in close cooperation with you, matching your requirements and ready for smart-grid operation.

Efficient solutions derived from the in-depth experience of two industry specialists joining forces. Set up to tackle the challenges of our customers, we offer you the right solutions for a smart future.





## INNOVATION

*Smart solutions such as EFEN's Smart Grid Interface module for easy retrofitting into existing systems to fast-charging stations for enhanced e-mobility.*



## TECHNOLOGY

*Efficient solutions derived from quality and experience hold particular significance for us. We have already developed numerous innovative customer solutions.*



## PARTNERS

*Closely cooperating with technology partners in many areas of power distribution or data collection, we are your one-stop shop for turnkey solutions.*



## SERVICE

*We closely cooperate with many companies to offer comprehensive services e.g. for solar farms. From operations management or monitoring to scheduled maintenance routines.*





### Products from the comprehensive production and service range of the uesa group:

- Automation and control systems
- Wiring, house service and special-purpose distributors
- House service panels for connection to the mains grid
- Components for e-mobility
- Meter pillars, street lighting cabinets, campground and market square distribution cabinets
- Low-voltage distribution switchboards, air-insulated up to 2.500 Amps and enclosed up to 7.300 Amps
- Transformer stations for wind farms, biogas plants and photovoltaic systems
- Construction site transformer stations with skid-mounted sheet-metal cabinets

- Medium-voltage switchgear up to 24 kV
- Stamped, formed and milled parts made of copper, steel and plastic
- Solar system services
- Rental stations

### Products from the comprehensive production and service range of the EFEN group:

- Fuse-links
- Power distribution components
- Metering and power management products
- Distribution systems



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