BBC
CELLPACK
Electrical Products

RENEWABLES

Superior Electrical Connection Solutions For Your Renewables Projects



BRIDGING POWER

RENEWABLES AND ENERGY LOSS PREVENTION

In today's rapidly evolving renewable energy landscape, owners of large-scale renewable installations face a complex set of operational and strategic challenges. Ensuring consistent quality and long-term performance is no longer optional, it's essential for protecting investments and maximizing returns. Rising Investment and maintenance costs, coupled with global supply chain constraints and delivery uncertainties, demands better procurement and engineering strategies.

Moreover, as system designs evolve to handle higher power levels, requiring larger conductors and voltages, project developers must adapt their infrastructure to meet future energy demands without compromising safety or efficiency. Simultaneously, installations must be tailored to unique sites and environmental conditions to mitigate risks.

The performance of large-scale renewable energy facilities hinges directly on minimizing energy losses. Effective management of skilled labor enables Operators to streamline installation and O&M activities, reduce lifecycle costs, and enhance the resilience of their assets.

Power Losses Represent the Primary Impact on Profitability Reduction

How significantly have electrical failures impacted on the profitability of your renewable energy complex?

Partnering with a solutions provider that understands these cross-cutting challenges ensures your renewable assets Deliver sustained performance, regulatory compliance, and long-term value today and for decades to come.

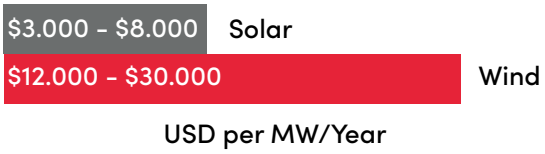
Quality of Electrical Connections

Internal power consumption and overall system efficiency depend on the electrical resistance of transmission lines and cables, inefficiencies in transformers and converters, as well as damaged or faulty cable connections, which can lead to significant energy losses and may even result in failures of the electrical system.



Costs of Power Losses

According to DNV's "Solar Asset Performance Report 2023", economic losses were quantified at between $3,000 and $8,000 per year per MW in utility-scale photovoltaic installations, while onshore wind facilities experienced losses ranging from $12,000 to $30,000 per year per MW.



Source: DNV



Labor Shortage: Installation and O&M Costs

The shortage of skilled labor is one of the biggest non-technical challenges facing the renewable energy industry. While it doesn't halt the sector's growth, it is putting upward pressure on installation and O&M costs, which can affect project profitability, especially in mature markets with tight margins.

Selecting electrical equipment partners that offer high reliability, extended service life, and technical and training support is key to reducing power losses and mitigating the impact of labor shortages, thereby preventing economic losses.

WHY CHOOSE CELLPACK?

As a leading manufacturer of medium and low voltage electrical connections, we are proud to support the on-going power transition by delivering high-performance electrical connection solutions tailored to the unique demands of renewable energy infrastructure.

Whether you're building a utility-scale solar farm, an onshore wind project, or integrating BESS for grid flexibility, our comprehensive portfolio of high-quality electrical connection solutions are engineered to ensure efficiency, safety, and long-term reliability.

These solutions are backed by decades of expertise in mission critical installations and rigorous testing protocols that exceed industry standards.

Your Renewable Energy Low Voltage and Medium Voltage Solution Provider

Beyond providing premium connection products, we deliver installation efficiency, comprehensive technical support and training that ensures optimal implementation.

With a proven track record and utility-approved products, we help developers, EPCs, and utilities reduce downtime, simplify installation, and meet the highest standards of grid compliance.



Efficiency
Engineered connections that prevent costly power outages and ensure continuous operation.

Safety
Decades of process optimization, strict quality control systems and routing tests combined with quality made in Germany help minimizing safety related hazards.

Reliability
Product solutions designed to last and ensure permanent efficient electrical connections confirmed by utility scale approvals.

Training
Comprehensive technical support and training to ensure optimal implementation and equipment installation.

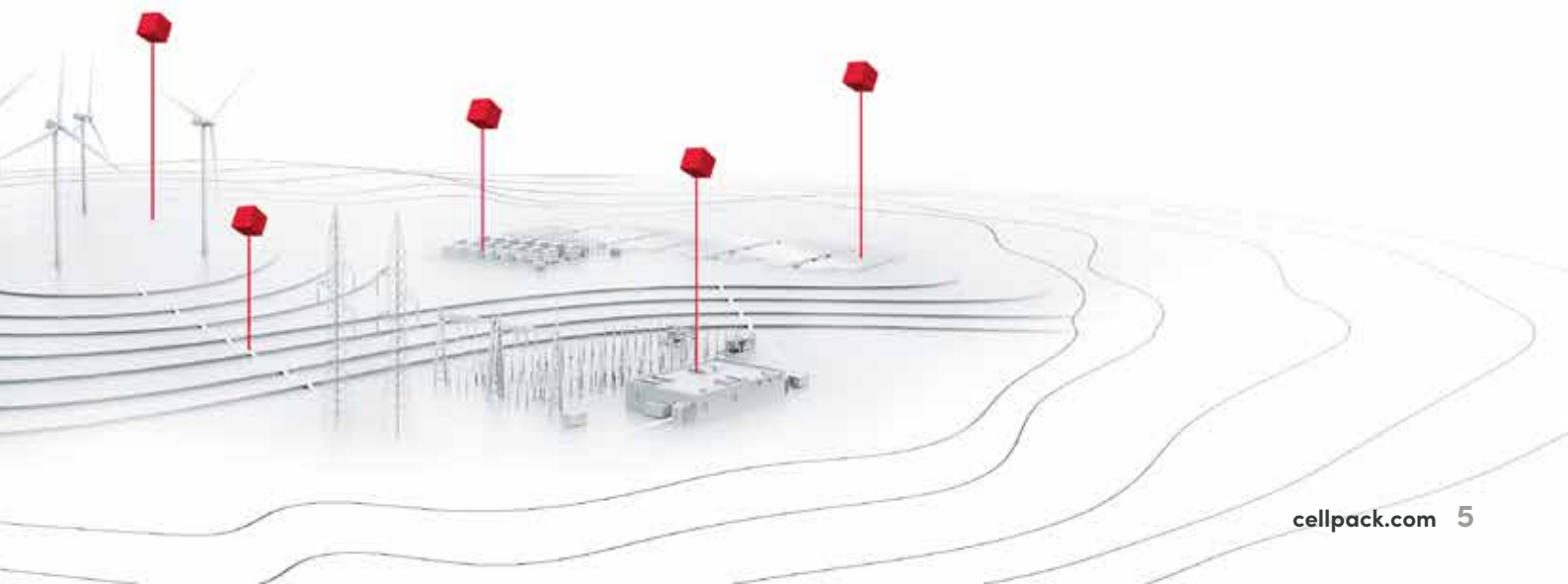
Expertise
60 years of technology know-how, own testing labs and consultancy expertise in critical infrastructure.

Utility Approved

Partner with us

Transform your electrical connections from potential weak points into pillars of reliability, ensuring the continuous operation of your systems for your customers.

Get in touch with us: sales.de@cellpack.com



RENEWABLES SOLUTIONS

Our electrical connection solutions include a wide range ofmedium voltage products for the connection at the substation andtransformer level. We also provide an extensive portfolio of lowvoltage products and accessories tailored to renewables projects.

To further support your renewables electrical installations, our dedicated technical support team is available to provide comprehensive assistance. We also offer installation training for your installers, ensuring the most reliable and efficient outcomes for your projects.

Training



Technical Support



Medium Voltage



- Separable connectors
- Terminations
- Branch Joints and Straight-through Joints
- Transition Joints

Low Voltage



- Terminations
- Joints
- Branch Joints
- Gel and cast resin solutions
- Heat shrink accessories

Accessories

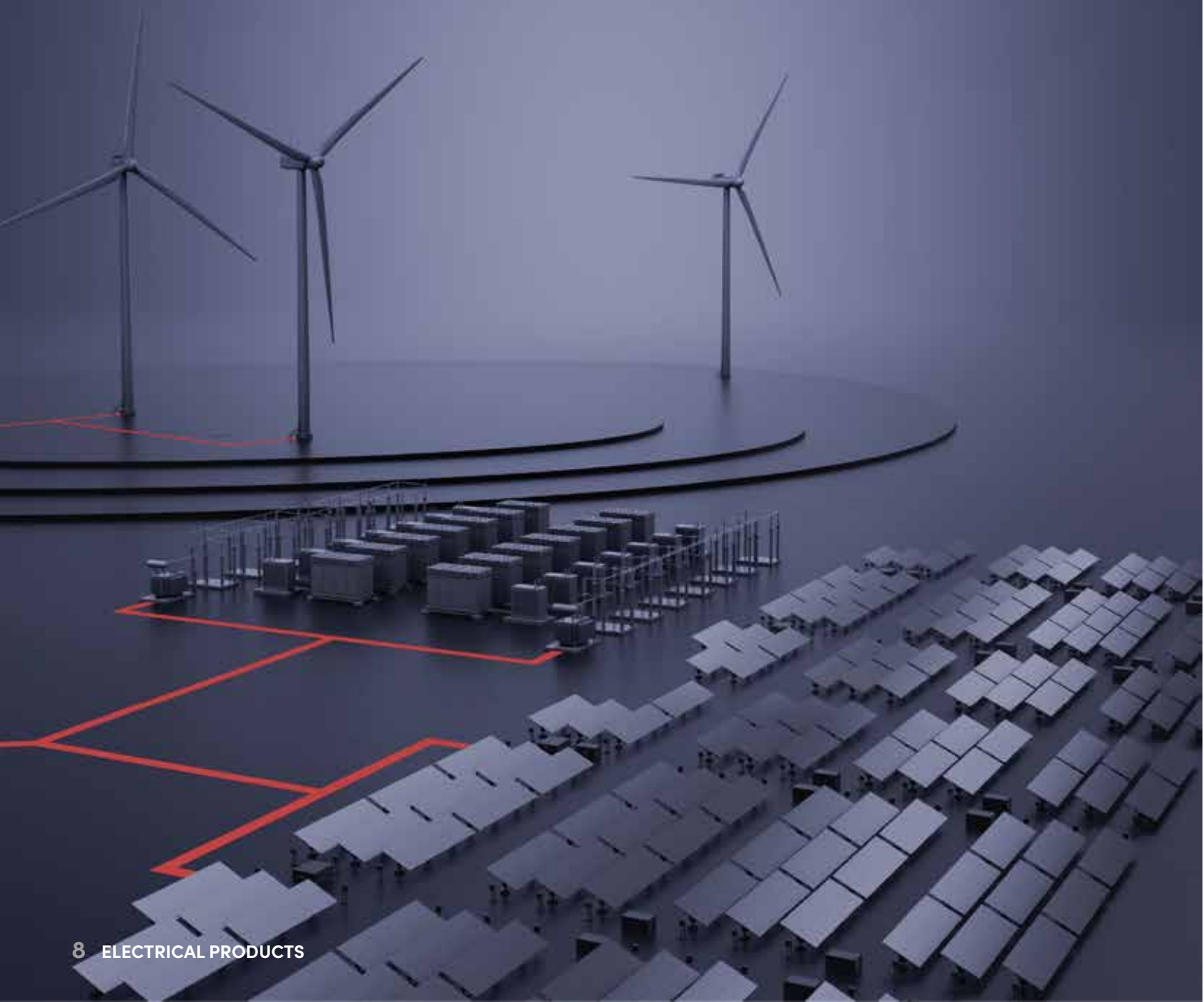


- Insulating and special-purpose tapes
- Connectors and cable lugs
- Heat shrink tubing
- Cable ties
- Seals and sealing compounds
- Casting compounds

MEDIUM VOLTAGE SOLUTIONS

Our medium voltage solutions are designed to meet the demanding needs of renewable projects, ensuring reliable and efficient electrical connections.

We offer a comprehensive selection of separable connectors, terminations and straight-through joint solutions that provide superior performance and ease of installation. These products are engineered to withstand the rigors of medium-voltage environments, delivering long-lasting durability and optimal functionality.



Separable Connectors



Elbow Connectors



T-Connectors



Coupling Connectors



Surge Arresters

Terminations



Heat Shrink



Slip-on (Cold)

Straight-through Joints



Cold Shrink

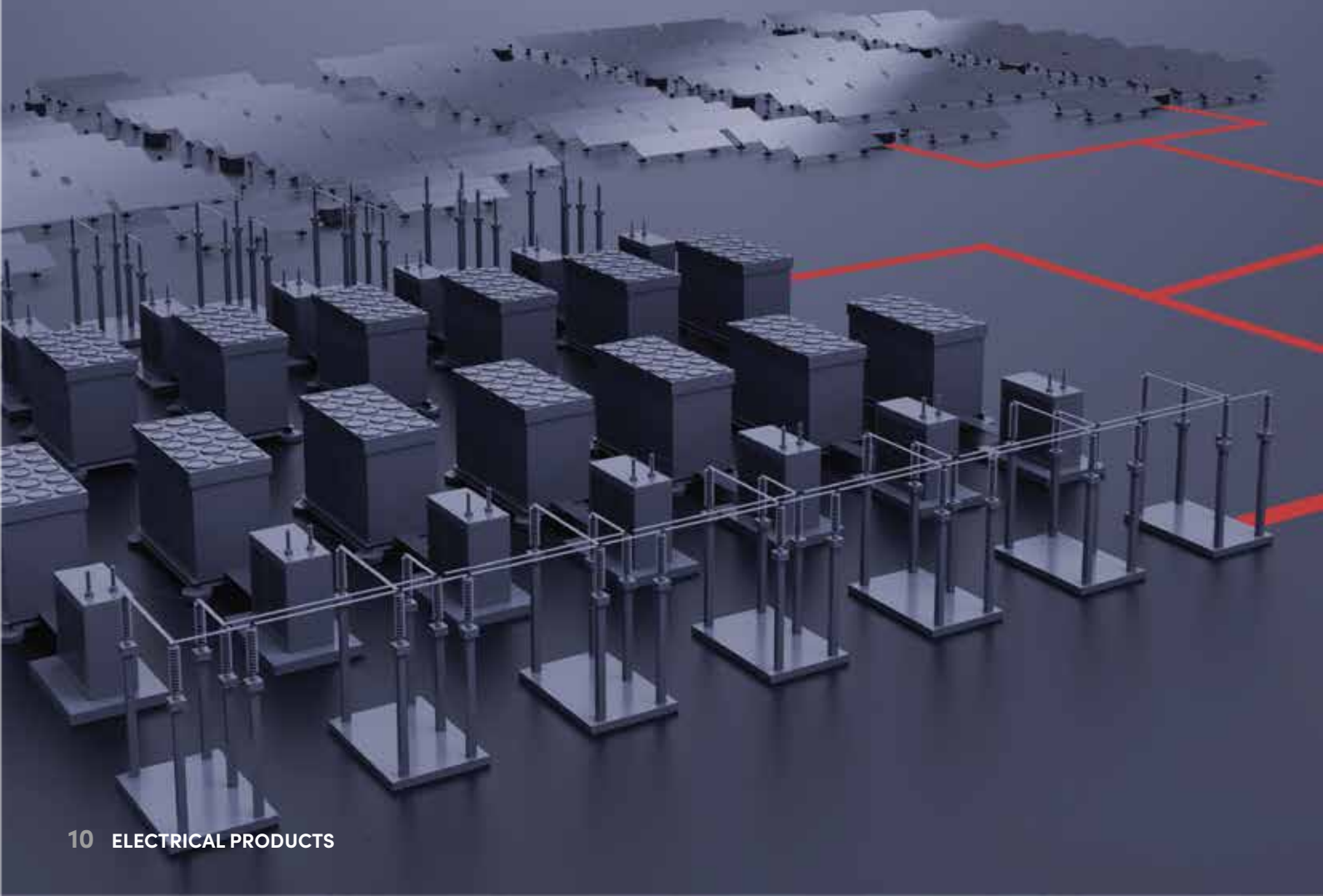


Heat Shrink

LOW VOLTAGE SOLUTIONS & ACCESSORIES

Our low voltage solutions cater to the diverse needs of renewable projects, providing a range of terminations, and connection and branching solutions that ensure robust and reliable electrical connections. These products are designed for ease of use and superior performance, making them ideal for various low voltage applications.

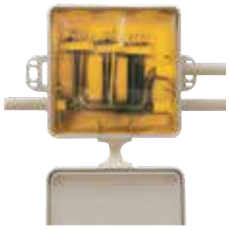
From tapes and lugs to connectors, heat shrink tubes, cable ties, and sealing compounds, our accessories are crafted to deliver exceptional quality and reliability.



Joints & Branches



Gel Technology



Resin Technology



Heat Shrink Technology

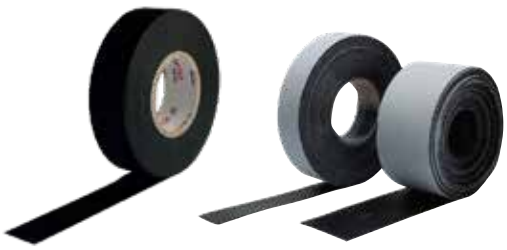
Accessories



Heat Shrinkable Tubes



Connectors and Lugs



Tapes (PVC, Self-Amalgamating Tapes, ...)



Cable Ties



Seals and Sealing Compounds

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