



TEMPERATURE UNDER CONTROL



Innovative Energy Transfer and Storage Solutions

every day a little greener



Foto: igreen/Jonathan Fieber

Table of Contents

Welcome to ZILONIS®	8
ZILONIS® (latv. Elephant)	10
ZILONIS® Writes History	12
Empowered by Passion	15
Pioneering for the Possibilities of Tomorrow	16
Overview of Our Services	18
Our Product Range	20
Our Capacities	22
Your Markets Are Our Markets	24
International Business	28
Get to Know Us Today	30

Internationally Certified

Certifications make us not only the ideal partner for international projects but also consistently ensure compliance with global standards.

- ✓ ASME U-Stamp
- ✓ ISO 9001
- ✓ China Stamp
- ✓ CU TR 032

Welcome to ZILONIS®

Get to Know Us

ZILONIS®: Your partner for customized heat exchanger and energy storage solutions. With a wide range of products and years of experience, we serve various industries. Our focus is on high-quality solutions and environmentally friendly technology. Contact us to learn more about our products and services.



Our Vision:

We are globally recognized for our contribution to reducing the CO₂ footprint.

Our Mission:

We optimize the storage and exchange of heat, energy, and power through continually improved processes.



ZILONIS[®] (latv. Elephant)

A Brand with Significance

In China

Symbol of strength, acumen, energy, and sovereignty

In Africa

Symbol of power, luck, and a long life

Distinctive Memory

Sense of Family

Goes to great lengths for food

Sensitive

Robust Skin

Best Social Networks

ZILONIS® Writes History

From Individual Parts Emerges a Whole

Foundation of ACHENBACH+DEUKER

Engineering for feedwater tanks and degassers

- Paper and wood industry
- Coil-type heat exchangers and tanks

ACHENBACH+DEUKER
Behälter- und Apparatebau

Foundation of QUASt Anlagentechnik

Coppersmith and plant engineering in the Ruhr area

- Chemical, pharmaceutical, oil, and gas industries
- Custom installations, reactors, and columns

QUAST
ANLAGENTECHNIK

Foundation of WEINBRENNER

Machinery and apparatus construction in the Westerwald

- Brewing, beverage, and food industry
- Compact design tube bundle heat exchangers

 **Helmut Weinbrenner**
Maschinen- und
Apparatebau GmbH

Foundation of AST Advanced Welding

Sophisticated welding connections and special materials

- Vacuum chambers, mixing tanks, and cooling chambers
- Mechanical engineering, pharmaceutical industry, and marine sector

AST ADVANCED
WELDING

Group Expansions

Formation of the Parent Company ZILONIS®

 **ZILONIS®**

Foundation of ZILONIS® Kosova

First foreign branch in Kosovo, responsible for the Southeast European market.

 **ZILONIS®**
kosova

1926

1933

1948

1954

1976

1984

2003

2005

2019 2020

2023

Foundation of DELLER

Hüttenmann = Symbol for Iron Production in Siegerland

- Chemical and Pharmaceutical Industry, Oil and Gas
- Safety and Sterile Heat Exchangers

 **DELLER**
SAFETY HEAT EXCHANGERS

Foundation of Eugen Bündenbender

Large container construction and rubberized containers

- Water treatment and energy industry
- Filter containers and special containers

 **EUGENBÜDENBENDER**
Behälter- und Apparatebau

Foundation of IGEFA

Thermodynamic designs and strength calculations

- Energy industry, district heating, and engineering offices
- Steam generators, electric heaters, and transfer stations

 **IGEFA** Ing.-Ges. für
Elektrowärme-, Fernwärme-
und Abwärme-Technik mbH

Foundation of BAM Apparatebau

Large apparatus construction and heat exchangers from Siegerland

- Mechanical engineering and marine sector
- Large heat exchangers and containers

BAM
APPARATEBAU

Foundation of XELSION

Customized solutions and thermodynamic designs

- Energy industry, beverage, and food industry
- Plate heat exchangers in all categories

Xelson®
heat transfer solutions

Foundation of ZILONIS® Shanghai

Seeing and shaping the future. Asia is one of the future markets in our fields.

 **ZILONIS®**
shanghai 上海

Relocation of the Headquarters to Müschenbach

Opening of the ZILONIS® CAMPUS

 **ZILONIS®**
campus

Empowered by Passion

All Services from One Source

At ZILONIS®, we are never satisfied with the status quo. We continuously strive to expand our core competencies and strengths, skillfully identify and address our weaknesses. This dedication ensures that our customers continually benefit from innovations and outstanding products.



Know-How

Through our in-house engineering for process and procedural technology, as well as a centrally organized project, quality, and documentation management, ZILONIS® possesses extensive knowledge. Our customers can already benefit individually from this knowledge in the consultation process.



Innovation

Thanks to our close networking and active participation in numerous research projects at ZILONIS®, we are always able to offer our customers the latest technologies and highest quality standards. Our focus is always on cost-effectiveness and efficiency.



Experience

ZILONIS® brings together a wealth of experience of over a century in the field of heat exchanger, container, and apparatus construction. Our customers particularly benefit from this extensive expertise in project evaluation and the determination of associated process parameters.



Competence

At ZILONIS®, we have comprehensive competencies in the design, construction, manufacturing, and service of heat exchangers, containers, and apparatus. Our focus extends across a wide range of industries, utilizing innovative technologies and striving for sustainability.



High-level Engineering

The solutions from ZILONIS® are based on a thorough analysis of customer requirements and precise thermodynamic design. In the development, we place special emphasis on high-performance and efficient heat exchangers. Our proprietary design software allows us to offer tailored solutions and provide detailed quotes during the planning phase.



International Certifications

To ensure that our manufactured products fulfill their intended purpose and can be operated as durably as possible, we place great emphasis on quality and compliance with important standards and regulations. We are internationally recognized and certified, enabling close communication between production and quality management to continuously ensure first-class results.



Design Excellence

In construction, our expertise ensures the highest operational safety. With services such as technical drawings, product development, 3D visualizations, and technical communication, we have the professional tools to turn your vision into reality. Our dedication to individuality directs our entire focus to your requirements and drives us to continuously develop innovations and create solutions that go beyond conventional boundaries.

Pioneering the Possibilities of Tomorrow

*Leading in Innovation and Partnerships
for the Future*

Innovation and sustainability are two central pillars of our company philosophy. We at ZILONIS® firmly believe that innovation is the key to solving current and future challenges. We continuously strive for new ideas, technologies, and approaches to better meet the needs of our customers.

“The combination of our commitment to quality, international certifications, and customer satisfaction makes us the leading provider in our fields of application.”

Musa Smakaj, Managing Partner



“With ZILONIS, we aim to achieve our long-term goal of making energy management in industrial enterprises more efficient. To achieve this, we leverage the technologies available to us and continually expand our capacities to meet our own necessary standards of innovation.”

Daniel Utsch, Managing Partner



“Electromobility, photovoltaics, and improved thermal insulation are important steps against CO₂ emissions. However, the most significant lever against climate change is in the industry. That’s where we, with ZILONIS, come into play.”

Samir El-Assal, Managing Partner



Our Services Overview

Service Quality Tailored to Your Needs

Together with ZILONIS®, you will find exactly the services that bring the greatest benefit to your company. We offer maximum transparency and customized services that are available exactly when you need them. In the event of a production availability failure, you can rely on prompt and uncomplicated action, as well as timely communication of inspection deadlines and required maintenance. This allows you to extend the lifespan of your equipment and reduce downtime. Trust in a reliable and competent partner in all service areas! We are here to ensure that your requirements are met and your business runs smoothly.



START-UP

Commissioning and Manufacturer Inspection

- ✔ Transportation and Assembly
- ✔ Commissioning: Parameter Verification
- ✔ Training and Instruction
- ✔ Supervisor

Your direct benefits:

- ✔ Assistance and Monitoring
- ✔ Performance Precision
- ✔ Independent Operation



STEADY

Maintenance, Inspections, and Tests

Service Fee

- ✔ Safety Technical Evaluation
- ✔ Establishment of a Test Book
- ✔ Deadline Management
- ✔ Warranty Extension
- ✔ On-Call Service
- ✔ Travel Cost Flat Rate
- ✔ Rapid Spare Parts Delivery
- ✔ Cleaning and Corrosion Protection

Your direct benefits:

- ✔ Proactive Support
- ✔ Low Probability of Failure
- ✔ Prioritized Spare Parts Delivery



REPAIR

On-site and Workshop Repairs

- ✔ On-site Fault Analysis
- ✔ On-site Service Interventions
- ✔ Workshop Repairs
- ✔ Integrated Wear Parts Service

Your direct benefits:

- ✔ Quick Appointment Scheduling
- ✔ Swift Problem Resolution
- ✔ Fast Restoration to Operation



REPLACE

Spare Parts and Apparatus Replacement

- ✔ Uncomplicated Processes
- ✔ Special Formats and Materials
- ✔ Documentation and Archiving
- ✔ Transportation and Assembly
- ✔ Commissioning

Your direct benefits:

- ✔ Quick Reaction in Case of Failure
- ✔ Prioritized Production
- ✔ Low Downtime



REVISION

Reengineering and Acceptance

- ✔ Performance Optimizations
- ✔ Redesigns
- ✔ Substitution of Apparatus
- ✔ Acceptance with Inspection Authorities

Your direct benefits:

- ✔ Performance Enhancement
- ✔ Uncomplicated Adjustments
- ✔ Organizational Takeover



TRAINING

Consultation, Training, and Seminars

- ✔ Technical and Commercial Consulting
- ✔ Relevant Process Parameters
- ✔ Instructions and Training Sessions
- ✔ Supervisor

Your direct benefits:

- ✔ Free Quotations
- ✔ Performance Improvements
- ✔ Independent Adjustments

Our Product Range

Shell-and-Tube Heat Exchanger

Efficient Heat Transfer



Heating Condenser

Plate Heat Exchanger

Flexibility and Versatility



Bolted Plate Heat Exchanger

Brazed Plate Heat Exchanger

Reliability and High Performance



Plate Heat Exchanger

Containers

Customized and Individual



Feedwater Tank



Conveyor Tank



Steam Generator



Free Flow

Plate and Shell

Energy Efficiency and Low Operating Costs



Plate and Shell



Filter Tank



Hot Water Heater



Safety Heat Exchanger



Condenser/Evaporator

Electric Heating Systems

Precise Temperature Control



Electric Heater



Condensate Tank



Buffer Tank



Sterile Heat Exchanger



Stainless Steel Plate Heat Exchanger



Separation Tank



Stainless Steel Tank

Customer-Specific Manufacturing

– Innovative, Efficient, and Internationally Certified

Your Individual Solution

Inquire with Us!



Individual Solutions



Our Capacities

Resources and Potential



-
- Diameter up to 3,200mm
 - Length up to 12,000mm
 - Piece weight up to 40t

-
- TIG, MIG, Manual Metal Arc, and UP
 - Machining (CNC and Manual)
 - Tube Bending
 - Orbital Tube Welding

-
- Stainless Steel and Duplex
 - Heat-Resistant and C-Steels
 - Nickel-Based
 - Special Materials
-

Your Markets ...



Food Industry

The food industry, where quality and efficiency are crucial, finds a partner in ZILONIS®. We offer innovative heat exchanger and storage solutions that enable improved process control and the highest hygiene standards in areas such as heating, cooling, pasteurization, sterilization, evaporation, and condensation. With our solutions, you can increase your production performance while saving energy.



Chemistry and Petrochemistry

In today's world, almost all consumer goods are connected to chemistry in some form, and the chemical industry is considered one of the most innovative sectors globally. At ZILONIS®, we understand the challenging complexity of chemical production and support you in your processes. Our innovative heat exchangers, containers, and apparatus are ideal for heating, cooling, condensing, and evaporating process-relevant media, making your production more efficient and reliable.



Energy Technology

Energy is the lifeblood of the modern world, and ensuring its supply is of strategic importance. At ZILONIS®, we are aware of the challenges and opportunities associated with this crucial topic and leverage our expertise to advance the energy industry and support the transition to renewable energy.



Wood and Paper Industry

In the wood and paper industry, maximum productivity and plant availability are essential. Given the increasing demand for sustainable raw materials and products, efficient resource utilization and energy efficiency are crucial. At ZILONIS®, we support you with innovative heat exchangers, containers, and apparatuses to achieve maximum output while conserving resources. Our solutions enable the recovery of heat and efficient use of energy in your production processes.



... are our Markets

Diverse Applications of Our Products



Pharmaceutical Industry

In the pharmaceutical industry, the safety and quality of drugs take precedence. Our specialized tube bundle heat exchangers are designed to meet the stringent standards of the pharmaceutical sector. They are applied in water treatment systems, during storage and distribution, right through to end-use. Our solutions minimize the risk of contamination and ensure a safe and sterile working environment, adhering to the highest quality and safety standards in the pharmaceutical industry.



Oil and Gas Industry

Oil and gas are invaluable to our modern world. These essential resources not only serve as primary energy sources globally but also form the basis for a variety of everyday products, from electronics to medicines. At ZILONIS®, we offer innovative products and expertise to ensure operational safety, availability, and efficiency. Our technologies are designed to save energy and minimize environmental impact, from extraction to storage.



Marine

Our customized components are specifically designed for maritime applications and contribute to environmental relief. Our products provide reliable cooling and heating for critical systems, are durable, and long-lasting. They meet the highest standards to meet the demanding conditions at sea. We actively commit to reducing the environmental impact of shipping.



Building Technology

Our modern, durable, and low-maintenance heat exchangers and containers are designed to increase energy efficiency in buildings, meeting strict regulations and guidelines for energy consumption. We assist you in making your investment profitable in the long term, from planning to service.



International Business

With a Clear Conscience

At ZILONIS®, our principles and values are at the core of our business activities. These principles guide us in our international presence and our commitment to social responsibility, ethics, sustainability, legal compliance, fair competition, and environmental protection. In this context, we want to provide you with an overview of our commitments and actions rooted in these key areas:

Social Responsibility and Ethics

We commit to respecting globally recognized social and legal conventions and promote a working environment characterized by integrity, respect, fairness, and responsibility.

International Presence and Sustainability

Our international presence and global partnerships enable us not only to meet global standards but also to identify and seize market opportunities for renewable energy worldwide.

Legal Compliance and Anti-Corruption

Strict compliance with legal regulations, export and import restrictions, as well as anti-corruption guidelines, is of the utmost importance to us.

Fair Competition

We advocate for fair competition, respect antitrust laws, and adhere to socially responsible working conditions that reject any form of discrimination.



Environmental Protection and Product Safety

From the development process to the sale of our products, we are committed to environmental protection and prioritize the safety of our customers.



PRISTHINA

SHANGHAI

-  ZILONIS Locations
-  ZILONIS Partner

Global Presence yet Close to You

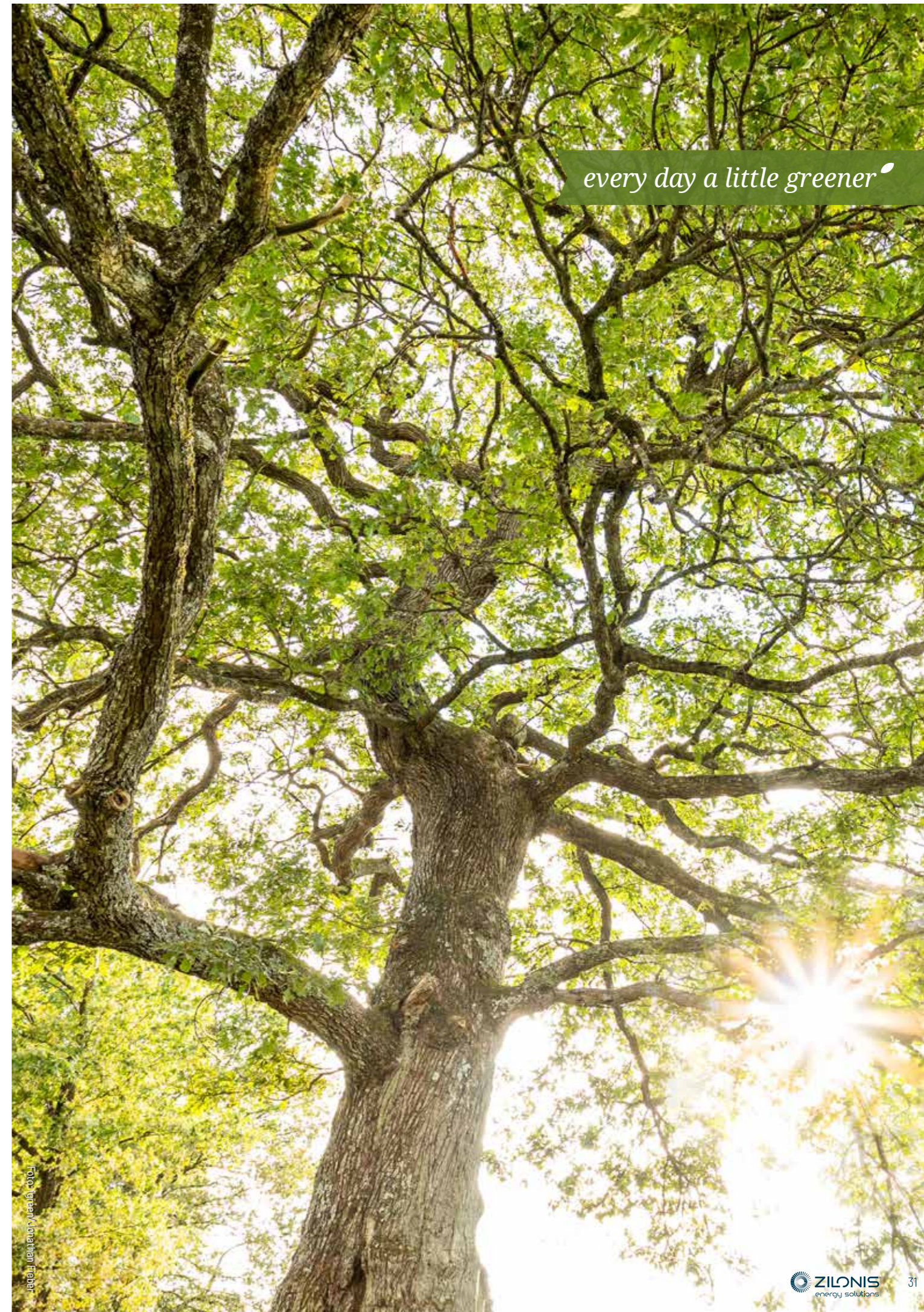
In an increasingly globalized world, having partners on the ground is more important than ever. At ZILONIS®, we recognize the importance of intercultural competence and nearshoring to serve our customers worldwide to the best of our ability. Regardless of your location, we are focused on understanding and meeting your requirements. We understand that despite the benefits of globalization, the proximity to our customers is invaluable. Our experts specialize in understanding the needs and challenges in different markets and regions. We believe in the strengths of collaboration and strive to be locally present to offer you tailor-made solutions. At ZILONIS®, we take pride in being globally present yet always close to you to best support your concerns.

Get to Know Us To-day

Your Path to Sustainable Solutions

We look forward to collaborating on the development of your project and are here to assist you from the initial contact to the successful completion and beyond. Take advantage of our direct line to the contacts in our ZILONIS® Sales Team for professional guidance.

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Foto: green/Christian Feiler

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