

Service Portfolio



MAINTENANCE AND INSPECTIONS

OHMEGA Energy GmbH

GENERAL INFORMATION

OHMEGA Energy GmbH is an Austrian company in the electrical industry with its headquarters in Vienna.

We offer both demand-oriented service packages for individual trades as well as complete solutions within our core segments.

OUR BUSINESS AREAS INCLUDE

- ✚ secure power supply systems
- ✚ electrical power distribution
- ✚ monitoring and system components
- ✚ renewable power supply systems

Safety, reliability and customer-oriented flexibility are core principles of **OHMEGA Energy GmbH**. We adhere to strict quality controls and are only satisfied once the optimal customer result has been achieved.

Customer satisfaction and the development of long-term solutions for your specific requirements are our top priority.

To provide the best service, we rely on highly trained personnel with cross-disciplinary expertise.

If desired, an Ohmega contact person accompanies you throughout the entire project.

PLANNING – CONSTRUCTION – COMMISSIONING – MAINTENANCE: EVERYTHING FROM A SINGLE SOURCE

We provide customized product solutions, and our services range from personalized consulting and detailed engineering to standards-compliant execution. Our service and support portfolio includes preventive maintenance work, enabling the extension of the service life of your energy systems. Preventive maintenance measures also help detect potential faults early – before costly downtime occurs.

We proudly look back on a wide range of successfully completed projects – from system modernizations to new installations.

This experience, combined with our quality standards, is reflected in our certification as an Austrian Model Company, standing for top quality, reliability and exemplary corporate governance – values we live every day.



At **OHMEGA Energy GmbH**, the company is inseparable from the people behind it. They embody the philosophy and spirit of the company.

With passion, precision and cross-disciplinary expertise, we pursue one common goal: to ensure that your process-critical applications function safely and reliably at all times.

To express our mission in the best possible way, the Ohmega team created the following slogan: **WHEREVER WE ARE, THERE IS ALWAYS POWER.**

This claim is more than a motto – it is our daily responsibility. Only through continuous support and technical precision can supply security be guaranteed in the long term.

TRUST THAT CONNECTS – ONE CONTACT PERSON FOR YOUR SAFETY

In an industry where multiple contacts and complex coordination are often required, we set a clear signal: We are a specialist company that independently and centrally handles all maintenance and service tasks related to emergency power systems across all trades. Electrical engineering, mechanics, control technology and building technology merge into a holistic service – coordinated by one experienced contact person. For our customers, this means: **no detours, no misunderstandings, no time lost.**

Our specialization makes us not only efficient – it makes us exceptional. Working with us means choosing maximum safety, clear communication and a partnership that goes far beyond standard solutions.

BECAUSE SAFETY ALLOWS NO COMPROMISES – EVERYTHING FROM A SINGLE SOURCE

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TESTING AND MAINTENANCE - CIRCUIT BREAKER



WHY CIRCUIT BREAKER MAINTENANCE? MAINTAIN PROACTIVELY, PREVENT FAILURES

Reliable Power Supply

- ✦ Professional maintenance of your circuit breakers ensures uninterrupted power supply and protects your systems from unplanned failures.

Extended Service Life & Asset Preservation

- ✦ Regular inspections and timely replacement of wear parts increase the lifespan of your power distribution system and reduce long-term operating costs.

Safety for People & Technology

- ✦ Proper testing ensures that your protective systems function reliably in critical situations – providing maximum safety for your employees and your facility.

ADVANTAGES OF REGULAR INSPECTION AND MAINTENANCE

As an independent service provider, Ohmega Energy offers comprehensive service packages for circuit breaker maintenance – tailored to your needs and always according to the highest quality and safety standards.

- ✦ **Increase Reliability**
Maintenance prevents failures and ensures stable power supply.
- ✦ **Extend Service Life**
Cleaned and serviced components last longer, eliminating costly replacements.
- ✦ **Increase Safety**
Properly functioning protection systems reduce the risk of accidents and damage.
- ✦ **Reduce Costs**
Fewer failures and more efficient operation save money, energy and resources in the long term.
- ✦ **Meet Regulatory Requirements**
Regular maintenance fulfills legal requirements and prevents penalties.

OUR MAINTENANCE SCOPE

Through manufacturer-compliant testing, precise measurement procedures and thorough visual inspections, we effectively prevent failures. Our qualified personnel carry out all manufacturer-specified maintenance tasks – ensuring maximum performance and long service life of your system.



PRIMARY TEST SYSTEM Megger INGVAR

MAINTENANCE OF MECHANICAL COMPONENTS

- ✦ *General Inspection* – All safety- relevant connections, functions and fastenings are carefully checked for possible damage or wear.
- ✦ *Arc and Main Contacts* – Arc and main contacts are inspected for proper seating, condition and functionality.
- ✦ *Main Circuit, Busbars and Disconnect Contacts* – Busbars, insulation parts and contacts are thoroughly cleaned, lubricated and checked for secure fastening.
- ✦ *Mechanism, Locking System* – The operating mechanism is cleaned, lubricated and inspected for full functionality.
- ✦ *Arc Chambers* – Arc chambers are checked for damage and cleaned of residues.
- ✦ *Cleaning* – The circuit breaker and all accessories are fully and professionally cleaned.

**Switch safely when it counts –
verified and tested.**

MAINTENANCE OF ELECTRICAL COMPONENTS

- ✦ *Electronic Accessories* – All electronic releases and actuators are electrically and mechanically tested.
- ✦ *Electrical Indicators* – Auxiliary contacts and signaling devices are checked electrically and mechanically.
- ✦ *Overcurrent Release* – Overcurrent releases are visually and mechanically inspected and tested using the **Megger INGVAR primary test system under real current flow**. During this process, the actual tripping current is precisely adjusted, and the tripping time is measured and documented. Unlike software-only tests, this procedure is performed **under real load**, ensuring that the complete tripping behavior – including thermal-magnetic characteristics – is verified. This method enables an **authentic assessment of the protection function** and provides the foundation for a reliable condition evaluation of the circuit breaker.

TYPICAL MAINTENANCE INTERVALS (GUIDELINES)

Application Type	Recommended Interval
Normal environment/standard operation	every 3–5 years
Frequent switching (> 1000 operations)	every 1–2 years
Harsh environments (e.g. high dust or humidity)	annually – every 2 years
Critical infrastructure (e.g. utilities, hospitals)	according to manufacturer's recommendation, often annually
After a fault or trip event	immediate inspection and maintenance

TESTING & MAINTENANCE - BATTERY SYSTEMS



WHY BATTERY MAINTENANCE? – YOUR SUPPLY SECURITY MATTERS!

Stationary battery systems are the heart of your emergency power supply – whether in power plants, substations or hospitals. Their full functionality and safety are essential.

Reliability

- ✚ Only regular maintenance ensures that your batteries deliver full performance when needed.

Long Service Life

- ✚ Professional care significantly extends the lifetime of your systems and protects your investment.

Legal Compliance

- ✚ Compliance with legal standards and documentation requirements is essential.

ADVANTAGES OF REGULAR INSPECTION AND MAINTENANCE

At Ohmega Energy, we offer comprehensive service packages for battery maintenance – tailored to your requirements and always according to the highest standards.

Reliable Performance Testing

- ✚ Clear results on whether the battery maintains the required load duration.

Early Detection of Defects

- ✚ Defective cells are specifically identified before a failure occurs.

Battery Condition Assessment

- ✚ Technical values provide insight into the actual condition – for greater planning reliability.

Well-Founded Decision Making

- ✚ Whether cell replacement or complete renewal – with us, you make the right choice.

Strong Proof and Documentation

- ✚ Measurement protocols provide clear evidence to secure warranty and guarantee claims.

OUR MAINTENANCE SCOPE

Our maintenance services ensure maximum operational safety of your battery systems. Through standards-compliant inspections, precise measurement procedures and comprehensive visual checks, we effectively prevent failures – ensuring maximum performance and long system life.



Megger TORKEl 840/860

MAINTENANCE ACCORDING TO MANUFACTURER REQUIREMENTS

- ✦ *Checking Electrolyte Condition* – Inspection of fill level and quality to ensure reliable operation.
- ✦ *Cleaning the Battery System* – Removal of dust, dirt and corrosion to prevent leakage currents.
- ✦ *Measurement of Battery Voltage/Cell Voltage* – Precise voltage measurement for early identification of weak points.
- ✦ *Measurement of Electrolyte Temperature* – Temperature control to prevent overheating and premature wear.
- ✦ *Measurement of Electrolyte Density* – Key indicator for assessing charge status and cell health.
- ✦ *Checking Screw Connections* – Inspection for tight connections and possible corrosion to ensure safe conductivity.
- ✦ *Visual Inspection of Ventilation* – Ensuring proper air circulation to prevent gas accumulation.

INSPECTION SCOPE ACCORDING TO REGULATIONS

- ✦ *Electrical Equipment in Ex Areas* – Inspection of explosion-proof system components to ensure compliance and correct function.
- ✦ *Mechanical Ventilation or Extraction Units* – Verification of ventilation systems for functionality and effectiveness to ensure safe gas removal.

**Precise measurement
for maximum reliability.**

RECOMMENDED MAINTENANCE SCOPE

- ✦ *Capacity Measurement via Discharge Resistor* – Load test for realistic assessment of actual battery capacity.
- ✦ *Verification of Labeling According to EN 62485-2* – Checking for complete and standardscompliant marking of all safety-relevant elements.
- ✦ *Checking Superimposed AC Currents* – Detection of unwanted AC components that may damage the battery.
- ✦ *Control of Float and Discharge Voltage* – Ensuring optimal charging and discharging parameters for long life.
- ✦ *Measurement of Battery Floor Conductivity* – Inspection for leakage currents and potential insulation issues at the battery rack.
- ✦ *Measurement of Internal Resistance* – Early indicator of cell weakness and decreasing performance.
- ✦ *Thermographic Measurement of Transition Resistances* – Thermal imaging to detect contact problems or overheating at connection points.

VEXAT COMPLIANCE & EXPLOSION PROTECTION



WHY VEXAT COMPLIANCE?

Explosive atmospheres can occur in many industrial sectors – whether caused by gases, vapors or dust.

Personnel Protection

- ✦ Comprehensive explosion protection safeguards your employees from life-threatening risks.

Legal Compliance

- ✦ Strict adherence to VEXAT ensures that your operation is legally compliant and protected from potential sanctions.

Asset Protection

- ✦ Preventive measures protect your systems from explosions and the often catastrophic consequential damage.

Economic Efficiency

- ✦ Avoiding accidents and operational interruptions secures productivity and reduces long-term costs.

ADVANTAGES OF PROFESSIONAL VEXAT CONSULTING AND IMPLEMENTATION

We are your experienced partner for comprehensive explosion protection services – tailored to your specific needs and carried out according to the highest standards.

- ✦ **Legal Compliance**

We help you meet all VEXAT requirements and relevant standards correctly and on time.

- ✦ **Risk Minimization**

Through targeted analyses and measures, we identify and eliminate potential hazards before a critical situation arises.

- ✦ **Solid Basis for Decision-Making**

We assess your current status and develop precise recommendations for necessary adjustments and investments.

- ✦ **Reliable Documentation**

We prepare or review your explosion protection documentation to clearly demonstrate your duty of care.

- ✦ **Increased Operational Safety**

Our expertise significantly contributes to the safety of your employees and the long-term durability of your systems.

OUR SERVICES IN THE AREA OF VEXAT

Our comprehensive explosion protection services guarantee maximum safety and compliance for your operation. Through precise analyses, expert consulting and detailed documentation, we effectively prevent failures – ensuring maximum safety and long-term conformity.

CONSULTING & ANALYSIS

- ✦ *Risk Assessment* – Systematic identification and evaluation of explosion hazards caused by flammable substances and ignition sources.
- ✦ *Zone Classification* – Professional classification of hazardous zones according to VEXAT requirements.
- ✦ *Identification of Ignition Sources* – Detection of potential ignition sources such as hot surfaces, flames, sparks, electrical equipment, electrostatic discharge, etc.
- ✦ *Review of Existing Documentation* – Analysis and evaluation of your current explosion protection documents for completeness and up-to-date compliance.

CREATION & UPDATING OF EXPLOSION PROTECTION DOCUMENTS

- ✦ *Comprehensive Documentation* – Preparation of detailed and legally compliant explosion protection documents including all relevant information and measures.
- ✦ *Regular Updates* – Implementation of necessary revisions following changes to systems, processes or legal requirements.

TRAINING & INSTRUCTION

- ✦ *Employee Training* – Specialized training for employees working in hazardous areas, focusing on risks and correct behavior.
- ✦ *Awareness Building* – Enhancing awareness of the importance of explosion protection within your organization.

Safe even in hazardous atmospheres.

INSPECTION & EVALUATION OF SYSTEMS AND EQUIPMENT

- ✦ *Inspection of Ex Equipment* – Verification of electrical and non-electrical equipment used in explosive atmospheres for conformity.
- ✦ *Safety- Relevant System Inspection* – Checks on ventilation, extraction and inerting systems regarding their effectiveness and functionality.
- ✦ *On- Site Measurements* – Execution of relevant measurements to evaluate explosion protection measures, e.g., dust explosion tests.

MEASURES PLANNING & IMPLEMENTATION

- ✦ *Definition of Protective Measures* – Development of preventive (avoiding explosive atmospheres, preventing ignition sources) and constructive (explosion venting, explosion suppression) safety measures.
- ✦ *Support During Implementation* – Consulting and support during the integration of technical and organizational protective measures.

TESTING & MAINTENANCE - EMERGENCY DIESEL GENERATOR



WHY EMERGENCY DIESEL MAINTENANCE? – YOUR SUPPLY SECURITY MATTERS!

Emergency diesel generators are the backbone of your independent power supply – whether in hospitals, data centers or industrial facilities. Their full functionality and operational readiness are essential.

Reliability

- ✚ Only regular maintenance ensures that your emergency diesel delivers full performance and starts immediately when needed.

Long Service Life

- ✚ Professional care significantly extends the lifetime of your system and protects your investment from costly replacements.

Legal Compliance

- ✚ Compliance with legal standards, regulations and documentation requirements is essential for safe operation and liability protection.

ADVANTAGES OF REGULAR INSPECTION AND MAINTENANCE

We offer comprehensive service packages for emergency diesel maintenance – tailored to your individual requirements and always carried out to the highest standards.

Reliable Performance Testing

- ✚ Clear results on whether the diesel generator maintains the required runtime and delivers full output under load.

Early Detection of Defects

- ✚ Components and wear are identified before they lead to system failure.

Condition Assessment of the System

- ✚ Technical values provide insight into the actual condition – for better planning reliability and asset preservation.

Well-Founded Decision Making

- ✚ Whether replacement of components, repair or complete renewal – with us, you make the right choice.

Strong Proof and Documentation

- ✚ Measurement reports and test protocols provide solid evidence for warranty or guarantee claims and meet audit requirements.

OUR MAINTENANCE SCOPE

Our maintenance services guarantee maximum operational safety of your emergency diesel systems. We perform **electrical and mechanical inspections** – not just one or the other. Our team has extensive expertise in both system areas to reliably assess functionality and dependability.

MAINTENANCE ACCORDING TO MANUFACTURER REQUIREMENTS

- ✦ *Engine Oil* – Checking oil level, condition and quality; refilling or replacement if necessary.
- ✦ *Coolant* – Checking coolant level and antifreeze protection; refilling or replacement if required.
- ✦ *Fuel System* – Inspection of fuel level, filters, lines and possible contamination; filter replacement if needed.
- ✦ *Air Filter* – Visual inspection, cleaning or replacement to ensure proper engine performance.
- ✦ *Battery System (Starter Batteries)* – Checking state of charge, electrolyte level, connections and charger functionality.
- ✦ *Belts and Hoses* – Inspection for tension, wear, cracks or leaks.
- ✦ *General Visual Inspection* – Checking for leaks, corrosion, damage and overall system cleanliness.
- ✦ *Cleaning* – Removal of dust, dirt and residues to prevent overheating and operational disturbances.

INSPECTION SCOPE ACCORDING TO REGULATIONS

- ✦ *Regular test runs* – under load to ensure operational readiness
- ✦ *Safety devices* – testing safety and alarm systems
- ✦ *Emission control* – checking exhaust values according to environmental regulations

Starts when everything else stops.

RECOMMENDED MAINTENANCE SCOPE

- ✦ *Fuel Analysis and Conditioning* – Analysis of fuel quality and, if needed, fuel polishing or additives to prevent deposits.
- ✦ *Thermal Analysis* – Thermal imaging of electrical connections and engine components to identify overheating early.
- ✦ *Oil and Coolant Analysis* – Laboratory analysis to evaluate condition and predict wear.
- ✦ *Vibration Analysis* – Measurement of vibrations to diagnose imbalance or mechanical wear on engine and generator.
- ✦ *Documentation and Reporting* – Preparation of detailed maintenance reports, test protocols and recommendations for future actions.
- ✦ *Remote Monitoring* – Integration or verification of remote monitoring systems for system status and alarms.
- ✦ *Fire and Explosion Protection* – Verification of compliance with relevant regulations for fuel storage and system installation.



WHY PERIODIC INSPECTIONS?

Your systems and equipment are the foundation of your business processes. Their full functionality, safety and compliance with legal regulations are essential.

Operational Safety

- Systematic inspections detect faults at an early stage and reduce the risk of malfunctions, failures and accidents. This protects your employees and safeguards your production.

Traceability

- Accurate documentation (equipment logbook) is essential for audits, regulatory inspections and insurance claims.

Asset Preservation

- Professional maintenance and condition assessment significantly extend the service life of your systems and sustainably protect your investment.

ADVANTAGES OF OUR SERVICE

We provide customized service packages for periodic inspections and asset management – tailored to your needs and always according to the highest standards.

Legal Compliance

- We ensure that your inspections and documentation comply with all relevant national and international regulations.

Optimal Planning Reliability

- Clear results and transparent condition assessments for informed decisions and proactive maintenance.

Cost Optimization

- Early detection of potential issues prevents costly emergency repairs and minimizes downtime.

Transparent Documentation

- Professional creation and updating of your equipment logbook for complete traceability and maximum clarity.

Risk Minimization

- Comprehensive protection for your employees, your systems and your entire company.

OUR SERVICES FOR PERIODIC INSPECTIONS & ASSET MANAGEMENT

Our scope of services guarantees maximum operational safety and compliance for your systems. Standards-compliant inspections, precise measurement procedures and comprehensive documentation effectively prevent failures – ensuring maximum performance and long service life of your equipment.

INSPECTION SCOPE ACCORDING TO REGULATIONS & STANDARDS

- ✦ *Visual Inspection* – Thorough check for visible damage, wear, corrosion or unauthorised alterations.
- ✦ *Functional Inspection* – Verification of proper functioning of all relevant controls, safety devices and components.
- ✦ *Measurements* – Execution of required measurements to assess system condition and performance.
- ✦ *Documentation Inspection* – Comparison of the system with existing wiring diagrams, operating manuals, CE declarations of conformity and previous inspection reports.
- ✦ *Assessment of Protective Measures* – Checking the effectiveness of emergency stop devices, protective covers and other safety equipment.
- ✦ *Inspection of Equipment in Hazardous (Ex) Areas* – Specific inspections for systems in potentially explosive environments in accordance with ATEX guidelines.

ADDITIONAL SERVICES

- ✦ *Consulting* – Expert advice on system safety, legal requirements and inspection obligations.
- ✦ *Deficiency Management* – Support from identification of defects to corrective action and reinspection.
- ✦ *Training & Instruction* – Practical training for your employees on safe operation and maintenance of systems.

Tested. Documented. Compliant.

SERVICES RELATED TO YOUR EQUIPMENT LOGBOOK

A professionally maintained equipment logbook is key to legally compliant documentation and efficient asset management. We support you comprehensively:

- ✦ *Initial Setup & Structuring* – Creation of a clear, standards-compliant equipment logbook – available in digital form upon request.
- ✦ *Ongoing Maintenance & Updating* – Systematic recording of inspection results, maintenance cycles, repairs and any relevant changes.
- ✦ *Deadline Management* – Automatic monitoring of inspection and maintenance deadlines, including reminder services.
- ✦ *Historization & Archiving* – Ensuring complete traceability of all activities throughout the entire lifecycle of your system.
- ✦ *Reporting & Analysis* – Preparation of summaries, evaluations and condition analyses for improved decision-making.
- ✦ *Risk Assessment* – Support in creating and updating risk assessments for your equipment.



WHY PV INSPECTION?

PV systems are a long-term investment in a sustainable energy future. Their continuous performance, safety and maximum yield are essential.

Yield Security

- ✚ Only regular inspections ensure that your PV system delivers maximum performance and prevent yield losses.

Long Service Life

- ✚ Professional upkeep significantly extends the lifetime of your modules and components, protecting your investment.

Safety

- ✚ A properly functioning PV system minimizes fire hazards and electrical risks and ensures safe operation.

ADVANTAGES OF REGULAR INSPECTION AND MAINTENANCE

At Ohmega Energy, we offer comprehensive service packages for PV system maintenance – tailored to your individual requirements and always executed to the highest standards.

Maximized Yield

- ✚ Our detailed analyses detect performance deficits, increasing your energy output and financial return.

Early Detection of Defects

- ✚ Preventive diagnostics identify problems before they lead to costly damage.

Increased Safety

- ✚ Risks such as fire hazards or electrical faults are minimized through early remediation.

Asset Preservation

- ✚ Preventive measures protect your investment and maintain the value of your PV system over long periods.

Comprehensive Documentation

- ✚ You receive a detailed inspection report as proof for insurers, warranty claims and regulatory requirements.

OUR MAINTENANCE SCOPE

Our maintenance scope ensures maximum operational safety and maximum yield of your photovoltaic systems. Through standards-compliant inspections and precise visual checks, we prevent failures – ensuring maximum performance and long system life.

We take a holistic view of the system: in addition to module and component inspection, we also check the feed-in point – from the sub-distribution to the grid connection. This ensures safe, efficient and standards-compliant feeding.

MAINTENANCE ACCORDING TO MANUFACTURER REQUIREMENTS & STANDARDS

- ✦ *Visual Inspection of PV Modules* – Inspection for damage (cracks, hotspots, delamination), contamination, shading and correct frame seating.
- ✦ *Inspection of Mounting System* – Verification of proper fastening, corrosion, damage and correct alignment of the substructure.
- ✦ *Inspection of Cabling (DC/AC)* – Visual inspection for damage, UV resistance, insulation, correct routing and strain relief; checking connectors for secure seating.
- ✦ *Inverter Function Test* – Reading error codes and operating parameters, checking performance values, grid connection and ventilation.
- ✦ *Electrical Measurements (DC Side)* – Measurement of open-circuit voltage (Uoc) and short-circuit current (Isc) per string or module to assess performance.
- ✦ *Insulation Resistance Measurement* – Checking insulation resistance of the entire PV system to ensure electrical safety and prevent fault currents.
- ✦ *Documentation* – Preparation of a detailed inspection report with measurement results, identified defects and recommended actions.
- ✦ *Ventilation Inspection* – Ensuring sufficient airflow to prevent gas accumulation.

**Preventive rather than reactive.
Predictable yields.**

RECOMMENDED MAINTENANCE SCOPE

- ✦ *Thermographic Inspection* – Identification of hotspots, cell damage, bypass diode malfunctions or faulty connections not visible to the naked eye.
- ✦ *IV Curve Measurement* – Detailed measurement of current-voltage characteristics of individual strings or modules for precise performance evaluation and module-level diagnostics.
- ✦ *Performance Ratio Calculation* – Determination of the performance ratio to assess system efficiency and compare with design data and other systems.
- ✦ *Module Cleaning* – Professional cleaning of module surfaces to remove dirt and ensure maximum light absorption and yield.
- ✦ *Monitoring System Check* – Verification of monitoring functionality, data transmission and alarm functions.
- ✦ *Maintenance of Sub- Distribution/Protection Components* – Inspection of DC isolators, AC protection switches and surge protection devices.
- ✦ *Consulting & Optimization* – Expert consulting on optimization measures, efficiency improvements or required modernizations of your PV system.

TESTING AND MAINTENANCE - BATTERY ROOM FLOOR RESISTANCE MEASUREMENT



WHY MEASURE FLOOR SURFACE RESISTANCE IN BATTERY ROOMS? TO ENSURE THE SAFETY AND AVAILABILITY OF YOUR ENERGY SYSTEMS

The condition of the flooring in battery rooms is crucial for safety and protection. How can you ensure that your battery room floor meets the required standards?

Increased Safety

- ✦ Identifying potentially hazardous battery conditions minimizes fire and explosion risks.

Asset Protection

- ✦ Preventive diagnostics significantly extend the lifetime of your battery systems.

Legal Compliance

- ✦ Standards-compliant floor discharge resistance in battery areas is essential to avoid liability risks and secure insurance coverage.

ADVANTAGES OF REGULAR INSPECTION AND MAINTENANCE

At Ohmega Energy, we offer comprehensive service packages for the measurement of floor surface resistance in battery rooms—tailored to your specific needs and always aligned with the highest standards.

Enhanced Personnel Safety

- ✦ Clear results identify and eliminate potential hazards.

Early Detection of Defects

- ✦ Poor insulation values are detected early, before major damage or failures occur.

Legally Compliant Documentation

- ✦ Measurement logs and inspection reports serve as clear proof of compliance with safety requirements and audit standards.

Asset Value Preservation

- ✦ Preventive measures protect your infrastructure and extend the lifespan of your battery installation.

Cost Efficiency

- ✦ Early detection and correction of issues prevent expensive repairs and operational interruptions.

OUR MAINTENANCE SCOPE

Our maintenance services ensure maximum safety and reliability of your battery room flooring and battery installations. Through precise measurement procedures and comprehensive analyses, we effectively prevent failures and hazards – ensuring maximum safety and long-term compliance.

MAINTENANCE ACCORDING TO STANDARDS & SAFETY REQUIREMENTS

- ✦ *Visual Inspection of the Battery Room Floor* – Thorough inspection for damage, cracks, contamination, moisture, acid residue and signs of corrosion.
- ✦ *Measurement of Conductivity* – Precise measurement of floor resistance at various points in the battery room – especially under and around battery racks – using standardized testing procedures and certified instruments.
- ✦ *Identification of Leakage Current Paths* – Analysis of measurement results to locate areas with insufficient insulation that may promote leakage currents.
- ✦ *Inspection of Grounding Systems* – Verification of the correct installation and functionality of the grounding for the battery rack and all conductive components in the room.

Floor conductivity measured. Safety proven.

SERVICES FOR YOUR BATTERY ROOM FLOOR SURFACE & BATTERY INSTALLATIONS

- ✦ *Analysis and Assessment* – Detailed evaluation of measurement results and comparison with relevant standards and limit values. Assessment of the actual condition of the battery room floor.
- ✦ *Recommendations for Corrective Actions* – Specific recommendations for eliminating identified deficiencies – e.g., cleaning concepts, refurbishment suggestions (coatings, repairs) or adjustments to rack insulation.
- ✦ *Documentation* – Preparation of a complete inspection report including all measurement values, detailed condition descriptions, identified deviations and recommended measures. This report serves as official evidence for authorities and insurance companies.
- ✦ *Preventive Consultation* – Advice on measures to prevent future problems, such as suitable acid containment trays, correct cleaning agents and procedures, or selecting the appropriate flooring for battery rooms.
- ✦ *Deadline Management* – Support in defining and meeting inspection intervals for battery floor measurements to ensure continuous safety.

Secure power supply requires competent and reliable partners ...



PROJECT DEVELOPMENT

DETAILED PLANNING

SERVICE PORTFOLIO

The Ohmega team consists of highly trained personnel with many years of cross-disciplinary experience. We are happy to create the right service package for you.

ENGINEERING

- ✦ Consulting and support prior to investment decisions
- ✦ Planning, project design and project management
- ✦ Grid and load flow analyses
- ✦ Short-circuit and selectivity calculations

PROJECT DESIGN

- ✦ Preparation of construction documentation
- ✦ Preparation of layout plans (ACAD)
- ✦ Preparation of wiring diagrams (RUPLAN, EPLAN)
- ✦ As-built surveys
- ✦ System documentation

ASSEMBLY AND COMMISSIONING

- ✦ Turnkey installation and commissioning
- ✦ System modernizations without interrupting operations
- ✦ Final acceptance testing with certified experts

SERVICE UND SUPPORT

- ✦ Initial and periodic system inspections according to the latest standards and regulations
- ✦ Thermographic measurements
- ✦ Product training
- ✦ Maintenance and asset management
- ✦ Support via our hotline

The quality of our products and services is our highest priority.

To make our quality commitment visible, Ohmega Energy GmbH is certified according to the following standards in the areas of quality, environment and occupational safety:





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**WHEREVER WE ARE,
THERE IS ALWAYS POWER**