

nomenclature

GRIDexpo is a new trade fair format of Messe Düsseldorf GmbH and will take place for the first time from **October 28 to 30, 2025** at the exhibition grounds in Düsseldorf.

Under the event motto “**powering the all-electric society**”, the event aims to provide the first comprehensive platform for the power grids of the future in Germany.

1. Infrastructure

1.1. Power Grids

- 1.1.1. Insulators
- 1.1.2. Cables/Lines/Cable Accessories
 - 1.1.2.1. Cables
 - 1.1.2.1.1. Low-voltage cables
 - 1.1.2.1.2. Medium-voltage cables
 - 1.1.2.1.3. High-voltage cables
 - 1.1.2.1.3.1. HVDC
 - 1.1.2.1.3.2. XLPE high-performance cables
 - 1.1.2.1.4. Flexible cables
 - 1.1.2.2. Clamps and Rails
 - 1.1.2.3. Superconductors
- 1.1.3. Compensation Systems
 - 1.1.3.1. STATCOMs
- 1.1.4. Complete Stations
- 1.1.5. Capacitors
- 1.1.6. Power Transformers
 - 1.1.6.1. SF6-free
- 1.1.7. Grid Protection/Protection Technology
- 1.1.8. LV Distributors
- 1.1.9. Phase Shifters
- 1.1.10. Switchgear
 - 1.1.10.1. Primary Distribution Level
 - 1.1.10.2. Secondary Distribution Level
- 1.1.11. Special Tools and Machinery
- 1.1.12. Converters/Inverters
- 1.1.13. Connection Technology
- 1.1.14. Line and Plant Construction

1. Infrastructure

1.2. Electromobility

- 1.2.1. Connection Technology
- 1.2.2. Foundations
- 1.2.3. Complete Systems
- 1.2.4. Cooling Technology for Charging Infrastructure
- 1.2.5. Charging Equipment
 - 1.2.5.1. AC (Alternating Current Charging Systems)
 - 1.2.5.2. DC (Direct Current Charging Systems)
 - 1.2.5.3. High Power Chargers
 - 1.2.5.4. Combined Systems
 - 1.2.5.5. Wall-mounted Charging Stations (Wallboxes)
 - 1.2.5.6. Other Charging Equipment (Public Transport, etc.), including mobile/inductive systems
- 1.2.6. Charging Plugs and Cables
- 1.2.7. Enclosures and Other Hardware
- 1.2.8. Cable Routing Systems
- 1.2.9. Circuit Breakers
- 1.2.10. Access Protection
- 1.2.11. Test Systems
- 1.2.12. Protection Technology

1.3. Storage

- 1.3.1. Connection Technology
- 1.3.2. Batteries
 - 1.3.2.1. Lithium-ion
 - 1.3.2.2. Metal-ion
 - 1.3.2.3. Metal-air
 - 1.3.2.4. Metal-sulfur
 - 1.3.2.5. Redox-flow
 - 1.3.2.6. Lead-zinc
 - 1.3.2.7. AGM
- 1.3.3. Enclosures
- 1.3.4. Complete Systems
 - 1.3.4.1. Commercial Storage
 - 1.3.4.2. Large-scale and Grid Storage
- 1.3.5. Capacitors/Ultracapacitors
- 1.3.6. Battery Insulation Technology
- 1.3.7. Cooling Technology
- 1.3.8. Connection Technology
- 1.3.9. Inverters

2. Measuring/Control/Regulation Technology

2.1. Power Grids

- 2.1.1. Reactive Power Measurement/Control
- 2.1.2. Remote Control Technology: Controllers, Gateways
- 2.1.3. iMSyS/CLS Control
- 2.1.4. IoT Components
 - 2.1.4.1. Gateways
 - 2.1.4.2. Antennas
 - 2.1.4.3. Sensors/Actuators
- 2.1.5. Communication Modules
- 2.1.6. Power Measurement/Current Transformers
- 2.1.7. Harmonics, Power Quality
- 2.1.8. Ripple Control Technology
- 2.1.9. Other Automation Components
 - 2.1.10. Voltage Measurement/Control
 - 2.1.11. TE Measurement
 - 2.1.12. VDE Testing Technology
 - 2.1.13. Monitoring Systems

2.2. Electromobility

- 2.2.1. Automation Components
- 2.2.2. iMSyS/CLS Control
- 2.2.3. Communication Modules
- 2.2.4. Charging Meters
- 2.2.5. Testing Devices for Safety/Function Testing
- 2.2.6. Other Sensors
- 2.2.7. Current/Voltage/Short-circuit Measurement

2.3. Storage

- 2.3.1. Automation Components
- 2.3.2. Battery Monitoring
- 2.3.3. iMSyS/CLS Control
- 2.3.4. Communication Modules
- 2.3.5. Power Measurement
- 2.3.6. Testing Devices
- 2.3.7. Other Sensors

3. Digitalization

3.1. Power Grids

- 3.1.1. Asset Management
- 3.1.2. Automation Platforms
- 3.1.3. Balancing Group Management
- 3.1.4. EDM/Platforms
- 3.1.5. Feed-in Management
- 3.1.6. ERP Systems
- 3.1.7. GIS
- 3.1.8. IoT Platforms
- 3.1.9. Control Room Systems
- 3.1.10. MaKo
- 3.1.11. Low Voltage Monitoring
- 3.1.12. Medium and High Voltage Monitoring
- 3.1.13. Grid Calculation
- 3.1.14. Grid Planning
- 3.1.15. Utility Company Portals (e.g., Grid Connection)
- 3.1.16. Forecasts
- 3.1.17. Redispatch 2.0
- 3.1.18. SCADA Systems
- 3.1.19. Low Voltage Control (§14a)
- 3.1.20. Workforce Management

3.2. Electromobility

- 3.2.1. Billing
- 3.2.2. Charging Apps
- 3.2.3. CLS Control (§14a)
- 3.2.4. CPO Complete Solutions/Platforms
- 3.2.5. EMSP Complete Solutions/Platforms
- 3.2.6. Flexibility Marketing
- 3.2.7. Customer/Contract Management
- 3.2.8. Charging Station Management
- 3.2.9. Load/Charging Management
- 3.2.10. Payment Solutions
- 3.2.11. Tariffing
- 3.2.12. Vehicle-to-Grid

3.3. Storage

- 3.3.1. Battery Management
- 3.3.2. Battery Monitoring
- 3.3.3. Flexibility Marketing
- 3.3.4. Charging Management

4. Connectivity

- 4.1. Broadband
- 4.2. LoRaWAN
- 4.3. LTE / 5G
- 4.4. LTE 450
- 4.5. mioty
- 4.6. NB IoT
- 4.7. PLC

5. Security Solutions

- 5.1. Firewalls
- 5.2. Network Security
- 5.3. Intrusion Detection Systems
- 5.4. Intrusion Prevention Systems
- 5.5. Security Operation Centers
- 5.6. Security Training
- 5.7. Virtual Private Networks (VPNs)
- 5.8. Endpoint Security (Antivirus and Anti-malware)
- 5.9. Data Security
- 5.10. Cloud Security
- 5.11. Application Security (WAF/AST/RASP)
- 5.12. Identity and Access Management (IAM)
- 5.13. Threat Analysis and Detection
- 5.14. Governance, Risk Management, and Compliance (GRC)

6. Artificial Intelligence (AI)

6.1. AI Models and Programming

- 6.1.1. Supervised Learning
- 6.1.2. Unsupervised Learning
- 6.1.3. Reinforcement Learning
- 6.1.4. Deep Learning
- 6.1.5. Transfer Learning
- 6.1.6. Generative Adversarial Networks (GANs)

6.2. AI-supported Forecasting and Modeling

- 6.2.1. Load Flows
- 6.2.2. State Estimation
- 6.2.3. Predictive Maintenance
- 6.2.4. Energy Management

7. Additional Services

- 7.1. Plant Engineering/Assembly
- 7.2. Financing
- 7.3. IT Services
 - 7.3.1. IT Consulting
 - 7.3.2. General Software Development
 - 7.3.3. SaaS
 - 7.3.4. BPaaS
- 7.4. Consulting
- 7.5. Research/Science/Development
- 7.6. Line/Infrastructure Construction
- 7.7. Marketing/Communication
- 7.8. Planning/Permitting
- 7.9. Project Management
- 7.10. Maintenance/Servicing
- 7.11. Heat Pumps
- 7.12. Municipal Heat Planning (KWP)

