



ELECTRICAL SAFETY  
POWER QUALITY  
ENERGY MANAGEMENT

## ABOUT EETARP

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# YOUR TRUSTED PARTNER

### About Eetarp

Eetarp, established in 1999, is an internationally active company and a pioneer in electrical safety, power quality, and energy management. As part of Bender, a family-owned company originating from Germany, Eetarp possesses extensive capabilities in research, product development, and manufacturing. We serve critical industries worldwide, offering market-leading systems and components that monitor, analyze, and manage electrical systems to enhance efficiency and provide advance warnings for potential failures.

With over 70 representations, Bender is a renowned international pioneer and Eetarp is the local hub for the Asia Pacific region, focusing on tailor-fit solutions. Our recent product innovations include software solutions, energy management tools, analytic software, and AI integration. Maximize the performance of your systems and safeguard both people and machinery with Eetarp, your ultimate solution.



## Your Electrical Safety is our Concern

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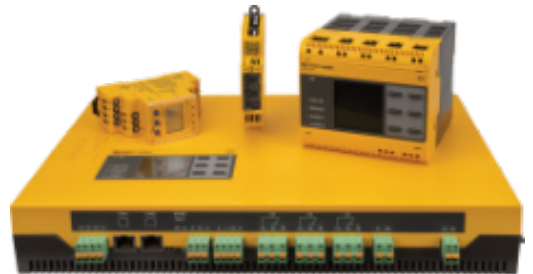
In almost all aspects of our daily life, safety is indispensable. Sadly, even for modern and advanced industries, a safe and reliable power supply is often taken for granted. Hazardous ground faults frequently occur in today's electrical wiring. An isolation breakdown and power failure can jeopardize life and cause massive financial loss to the company.

There is a massive demand for reliable electrical safety systems which can diagnose even a minuscule electrical insulation breakdown before it causes problems to the entire power system.

Our solutions are well suited to sensitive systems like data centres, highly automated manufacturing plants, water fabrication factories, power generation plants, oil rigs, FPSOs, petrochemical plants and hospitals.

### **Benefit**

Maximum electrical safety and associated fault-free operating processes are our top priority. Having a reliable and safe electrical system brings several advantages to your organization. We detect potentially critical plant conditions early, giving you excellent operational reliability. Our capabilities in providing innovative measuring and monitoring systems have minimized power supply interruption, protected personnel and equipment against electrical hazards and increased productivity.



## Solutions

### Unearthed Power Supplies (IT-System)

- Insulation monitoring devices (IMDs) and Insulation Fault location systems (IFLS) with patented AMP technology for 24/7 online monitoring without disruptions.

### Earthed Power Supplies (TN/TT-System)

- Earth leakage systems, or Residual current monitoring systems (RCMS) for continuous online monitoring of the insulation capabilities of the electrical systems without switching off of any equipment.

### Medical System

- Isolated power supply according to medical grade insulation monitoring systems including transformer, Insulation monitoring device and fault location system. Indicator and operation theatre touch panel for easy control of equipment and fast recovery in case of a failure.

### E-Mobility

- Electrical safety solutions for vehicles and high-end charge controller technology for charging stations including AC and DC-Charging.



# Your Reliable Provider of Power Quality

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Power Quality (PQ) is becoming increasingly important today as we depend on a reliable and continuous power supply for our daily activities. Poor power quality can cause significant power interruptions resulting in lower productivity and loss in revenue.

"If you can't measure it, you can't manage it "  
- Peter Drucker-

At Eetarp, our primary focus is to help our clients achieve control over their power requirements. We achieve this by offering online monitoring and analysis of events, allowing us to identify potential issues and provide effective solutions to enhance power quality.

### Benefits

With our permanent and temporary monitoring options we meet your flexible needs and add value to your company through:

- Permanent and temporary monitoring options
- Full range of monitoring solutions from energy Meter up to A-class Power quality analyzer
- Reduction of downtime by identifying potential issues
- Root cause analysis of power quality events
- Power quality correction with high-tech active harmonic filters (AHF)





## Solutions

With more than a decade of experience, we can provide the right tools and solutions for your power quality needs. We offer a full range of products and services from portable PQ analyzers to permanent PQ monitoring systems according to IEC61000-4-30 standards.

### Monitoring Solutions

- Full range of monitoring solution including
  - energy meter
  - power meter
  - power quality meter
  - A-class power quality analyzer
  - suitable current sensors in various sizes

### Mitigation Solution

- Reactive power compensation
- Active harmonic filter, real-time response
- Active voltage conditioner, ride to dips and swells



## Your complete Energy Management Service

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Data is getting more important in today's environment; however unmanaged data is becoming more of a liability rather than an asset.

Graphene is the ultimate IoT solution for all your monitoring and management needs. With its highly customizable and scalable features, this platform is designed to empower businesses of all sizes with intelligent data insights and seamless connectivity.

### Benefits

With the help of our team of experts, we will ensure that your company is progressing towards energy-saving targets and becoming more energy-efficient. We are committed to assisting your company in the following:

- Building Management Systems (BMS)
- Data Center Infrastructure Management (DCIM)
- Energy Management System (EMS)
- Power Quality Management System (PQMS)

# ENERGY MANAGEMENT



## Solutions

We are proud to introduce Graphene, our comprehensive Smart Monitoring Platform that encompasses a range of powerful solutions to address various monitoring needs. Within Graphene, you'll find the following integrated solutions:

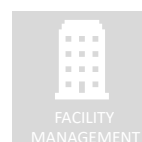
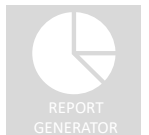
**Building Management Systems (BMS):** Effectively monitor and manage your building's essential systems such as HVAC, lighting, security, and access control. Graphene's BMS solution ensures optimal performance, energy efficiency, and occupant comfort.

**Data Center Infrastructure Management (DCIM):** Gain full visibility and control over your data center infrastructure, including servers, racks, power distribution units (PDUs), cooling systems, and environmental conditions. Graphene's DCIM solution helps you optimize resource utilization, enhance uptime, and streamline operations.

**Energy Management System (EMS):** Take charge of your energy consumption and sustainability goals with Graphene's EMS solution. Monitor, analyze, and optimize energy usage across your organization, identifying areas for improvement and cost savings. Graphene empowers you to make data-driven decisions and implement efficient energy management strategies.

**Power Quality Management System (PQMS):** Ensure the reliability and stability of your electrical power supply with Graphene's PQMS solution. Monitor power quality parameters such as voltage, current, harmonics, and disturbances in real-time. Detect and mitigate power quality issues promptly to prevent equipment damage and maintain operational continuity.

With Graphene's integrated suite of solutions, you can harness the power of advanced monitoring and management capabilities across multiple domains. From building operations to data centers, energy consumption, and power quality, Graphene enables you to optimize performance, enhance efficiency, and drive sustainable practices throughout your organization. Experience the future of comprehensive monitoring with Graphene today.



## FIRST CLASS SERVICE

### First Class Service

At Eetarp, we firmly believe that quality begins with all-encompassing planning and extends throughout the entire maintenance process after the implementation. Therefore, we not only focus on high quality solutions we also want to serve you for the other challenging areas like the planning, project management or modernization.

In all phases of your undertaking, we assist you with our extensive knowhow and ensure flexible and first-class service.

Our promise:

- Easy selectable and flexible service contract which perfectly fits your needs
- High availability of your system thanks to a quick and competent response
- High Quality support in all levels – from the planning stage to the implementation
- Best Consultation – Our focus is to provide you the best solution



We offer a wide array of  
**services and trainings** to our clients.



### Voltage Dip

Voltage dip simulation test according to SEMI F-47 test



### Troubleshooting

Root cause analysis and mitigation solution



### Maintenance

Comprehensive and non-comprehensive maintenance



### Power Compensation

Reactive power compensation and harmonics filter sizing



### Testing & Commissioning



### Electrical Safety Training

Theory, design and protection of IT (Underground System) and TN/TT (Grounded System)



### PQ Monitoring

Onsite power quality and inrush current measurement



### Earth Fault Detection

Online earth fault detection and location



### Safety Test

Electrical safety test in accordance to IEC60601-1/IEC62353/DIN VDE 0751



### Preventive Survey

Infrared thermographic scanning for preventive maintenance and energy saving



### Industrial Training

Industrial stand communication and software design and application



### Power Quality Training

Power Quality problems and the mitigation solutions



# YOUR RIGHT SOLUTION

## Partners

Australia  
China  
India  
Indonesia  
Japan  
Philippines  
South Korea  
Taiwan  
Thailand  
Vietnam



### Eetarp Engineering Pte Ltd

11 Woodlands Close, #08-13 | Woodlands 11  
Singapore 737853  
Tel: +65 6339 3651 | Fax: +65 6339 3667  
Email: [contact@eetarp.com](mailto:contact@eetarp.com)  
CRN: 200001617K

### Eetarp Power (M) Sdn Bhd

A-5-11, Blk Allamanda  
10 Boulevard, Lebuhraya Sprint  
PJU 6A 47400, PJ | Selangor, Malaysia  
Tel: +603 7729 3973 | Fax: +603 7729 8973  
E-Mail: [contact@eetarp.com](mailto:contact@eetarp.com)  
CRN: 1205228 P

[www.eetarp.com](http://www.eetarp.com)