



COMPANY PROFILE

PRESENTATION

www.raptronics.net



Table of Contents

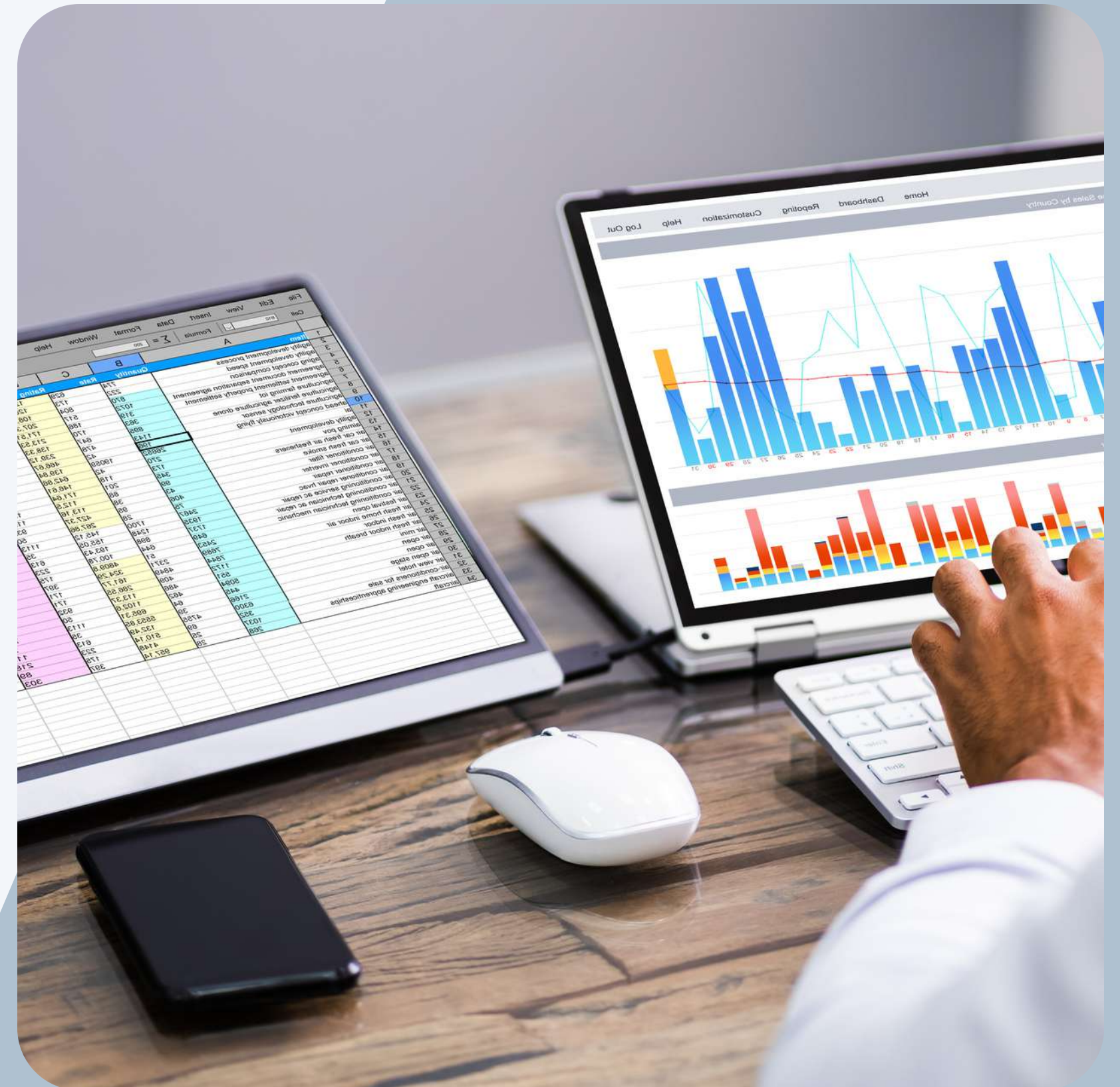
- About US
- Services
- Rental Fleet
- Our Projects

Welcome to Our Company

RAPTRONICS is amongst the leading companies for electrical testing equipment providing services for Low Voltage, Medium Voltage works up to 33KV Installation, testing & commissioning, preventive maintenance, power system studies & harmonic analysis, thermography, and much more in the field of electrical power transmission & distribution in Saudi Arabia.

RAPTRONICS provides rental services of testing equipment and load banks on daily, weekly, and monthly basis.

The focus of **RAPTRONICS** have always been on quality, reliability and relations. These values form the agenda for our business.



Our Company Premium Services



1- Testing Services

- **Cable Fault Locating & Repair**
- **Electrical Substation Testing**
- **Service & Maintenance of LV/MV Switchgears & Transformers**
- **Testing & Commissioning of LV/MV Switchgears & Transformers**
- **Retrofitting & Refurbishment of switchgears**
- **Thermography / Thermal imaging**
- **LT/HT Cable Laying, Cable Jointing & Cable Termination**
- **Load Bank Testing**
- **Data Center Testing & Commissioning**
- **Annual Maintenance Contracts**

2- Rental Services

- **Omicron CPC 100, Omicron CMC 356 , Omicron CT Analyzer, Omicron Testrano 600, and Omicron CIBANO 500, CMC 310 (Relay Test Kit)**
- **Hillstone AC/DC Load Banks**
- **Hillstone Rack-Mounted Data Center Load Banks (Used for Full Heat Test Simulation)**
- **Crestchic Containerized MV Load Banks up to 50MW**
- **Cable Fault Locator (LV & MV)**
- **VLF Hipot Testers (Cable Testing)**
- **Oil Filtration Machine**
- **Partial Discharge Equipment**

Our Company Premium Services



3- Automation Services

- **Smart Cities (Prepaid & Post Paid Metering)**
- **Automation Operation and SCADA System**
- **Power Plant Automation**
- **MV & HV Stations and Substations Operation & Monitoring**
- **Advanced Building Management System**
- **Energy Management, Battery Storage System, EV Stations**

4- Supply & Apply

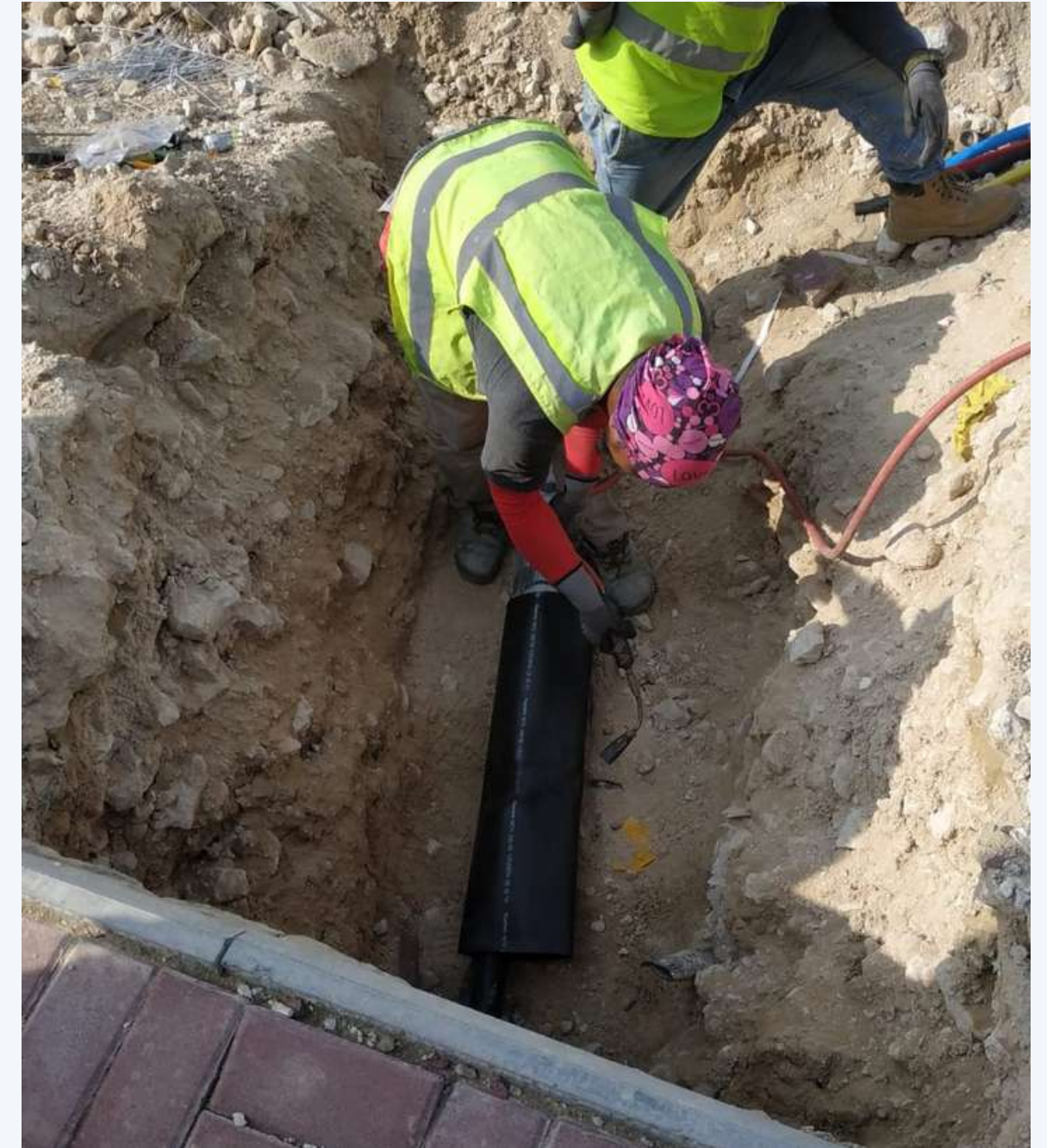
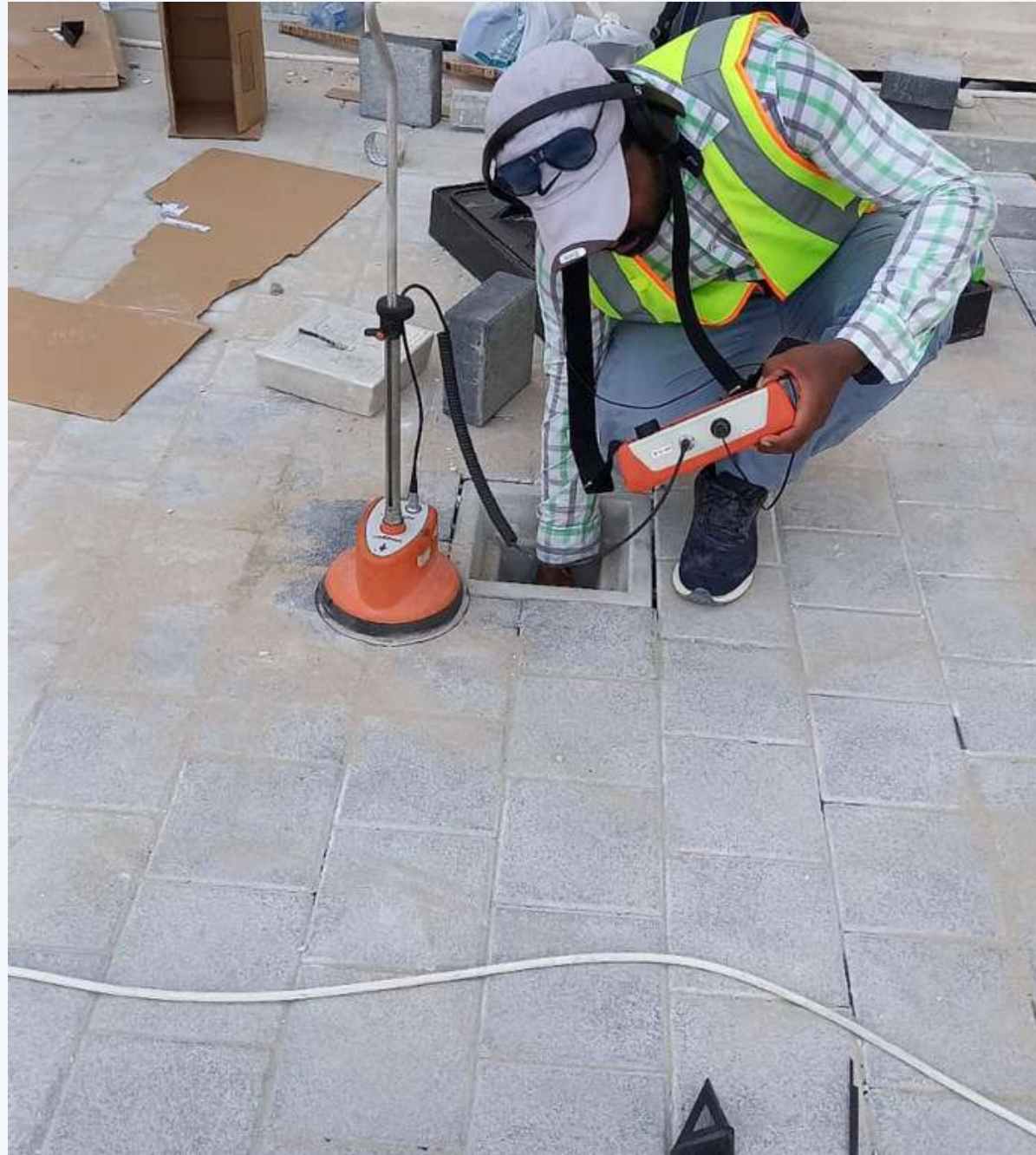
- **Instrument Transformers**
- **Surge Arresters**
- **Transformer Bushings**
- **Power Solutions - E House**
- **Transmission Line Monitoring**
- **Monitoring Solutions**

Our Rental Fleet



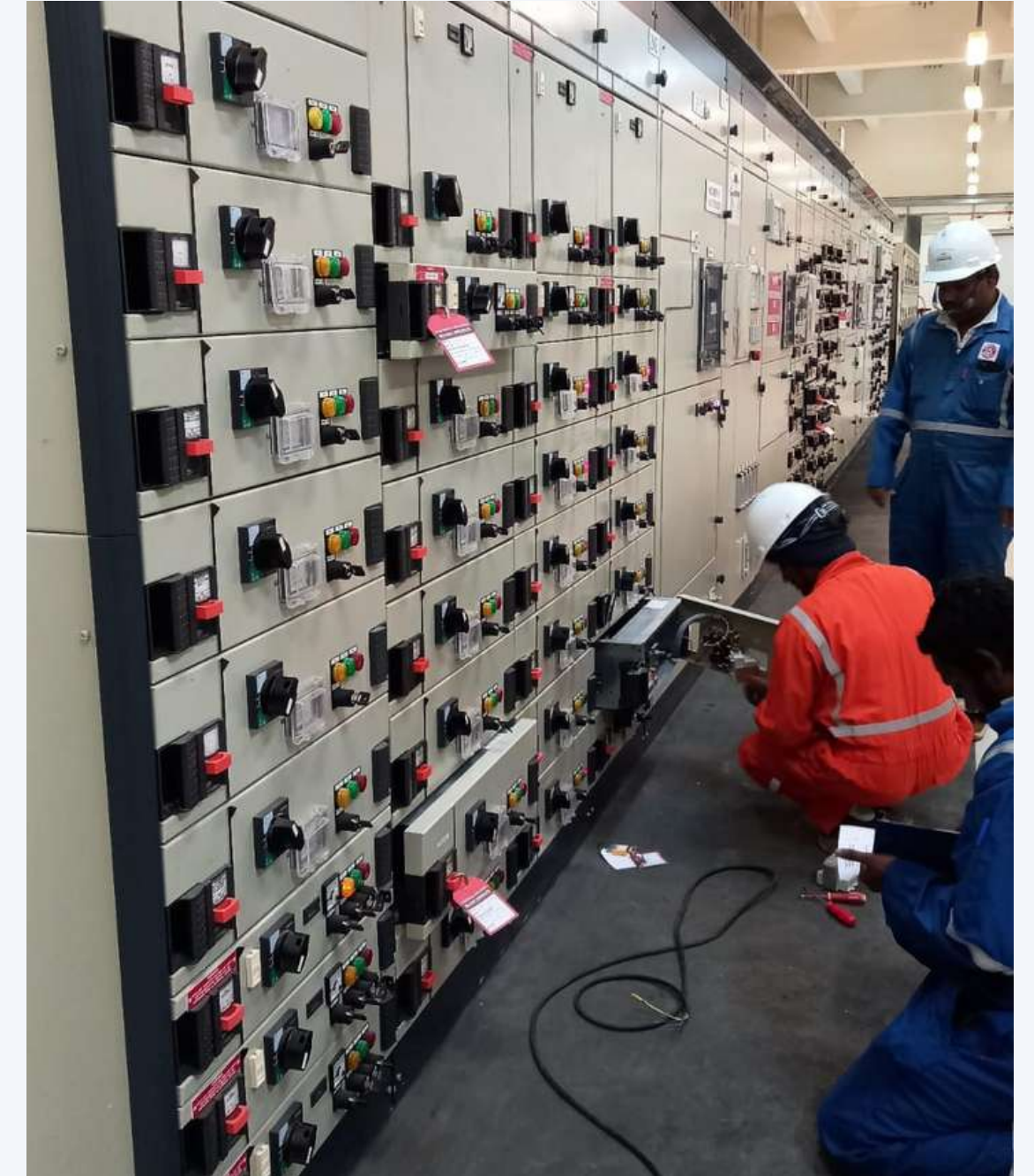
Our Projects

Cable Fault & Cable Repair



Our Projects

Switchgear & Transformer Testing



Our Projects

Generator Testing



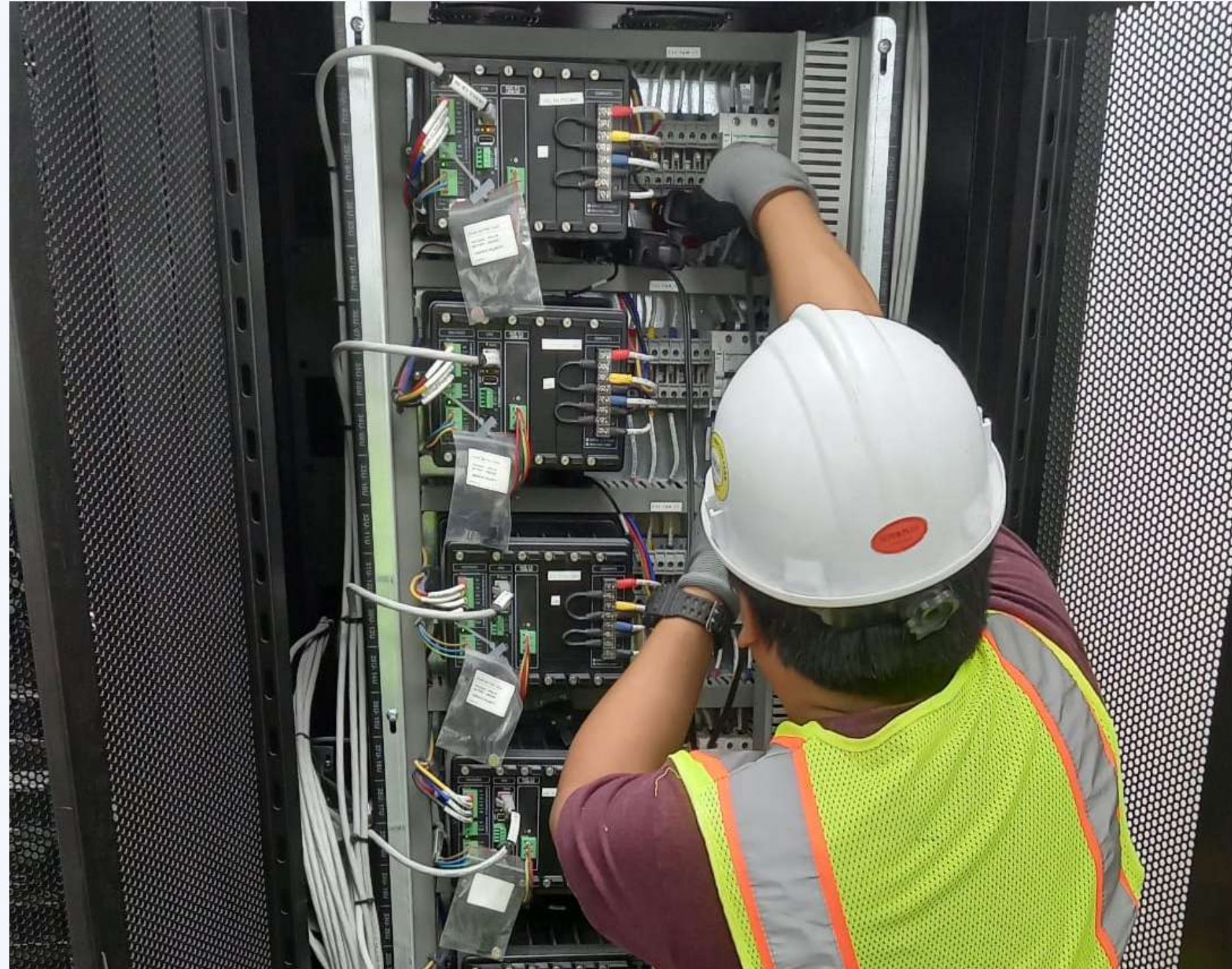
Our Projects

Battery Testing



Our Projects

DATA Center Testing & Commissioning



Our Projects

DATA Center Services

- Full Heat Load Test
- Temperature / Humidity
- Airflow Studies
- Thermography



Our Projects

DATA Center Services



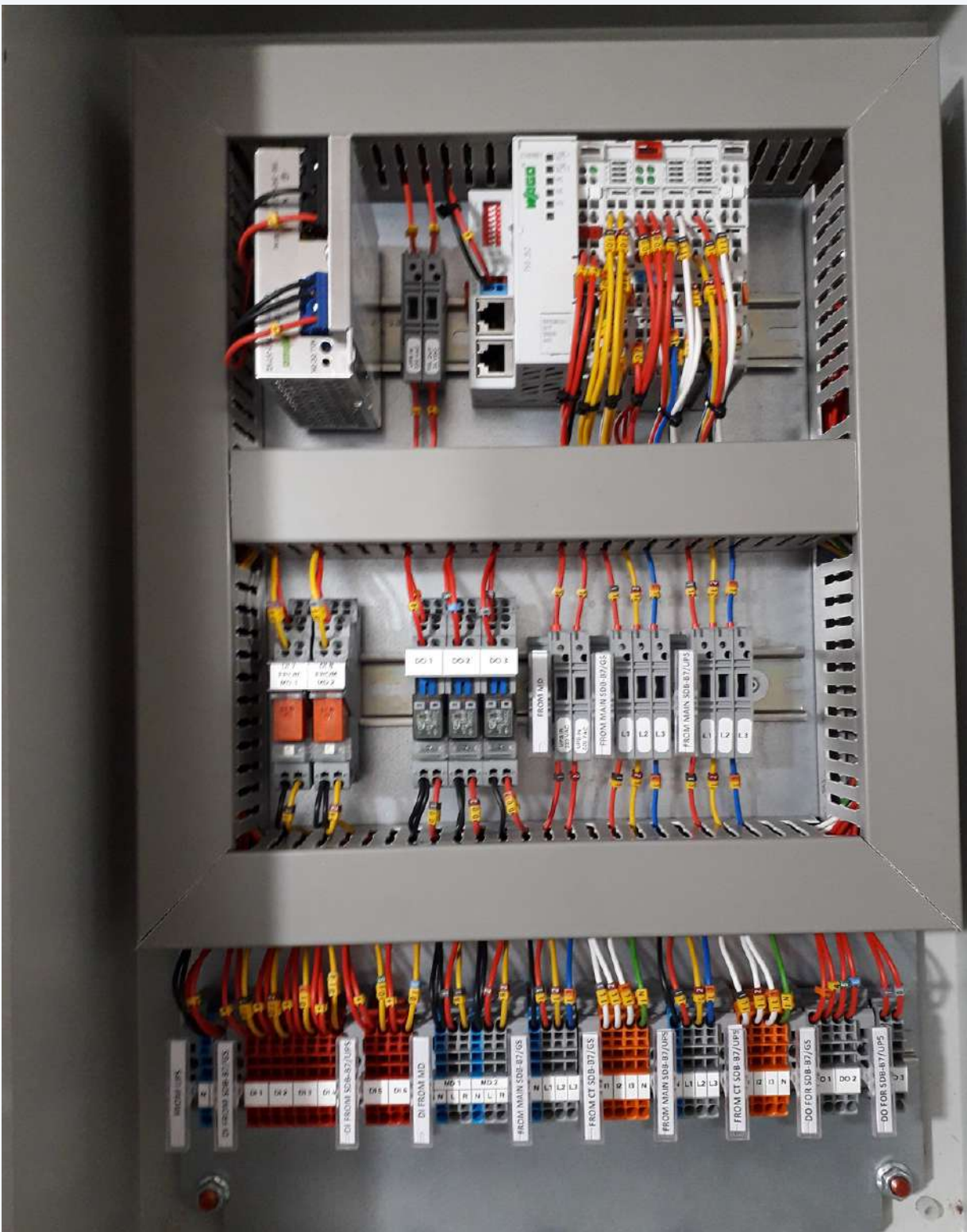
Our Projects

Container LV/MV Load Banks



Our Projects

Automation Projects



High Voltage Instrument Transformer

A wide range of products insulated with oil paper or SF6 offers our customers an optimal choice of high-quality instrument transformers with a long lifetime of up to 550kV.

- Current Transformers
- Voltage Transformers (Inductive, Capacitive)
- Combined Transformers
- Diagnosis Measurement System
- Resistive Capacitive Voltage Divider



Medium Voltage

This range of products covers standardized resin casted current and voltage transformers in block design up to 72 kV

- High Current Transformers
- Cable Current Transformers
- Support Type Ct's & Vt's



Low Voltage

- Current Transformers (Shell Construction, Block, Multi range, Ring busbar, Summation)
- Voltage Transformers





High Voltage Surge Arresters up to 800 kV

- Porcelain
- Silicone - Solid Core Design
- Silicone - Cage Design
- Silicone - Tube Design



Medium Voltage Metal Oxide Surge Arresters and Limiters up to 51 kV

Outdoor Applications

Indoor Application



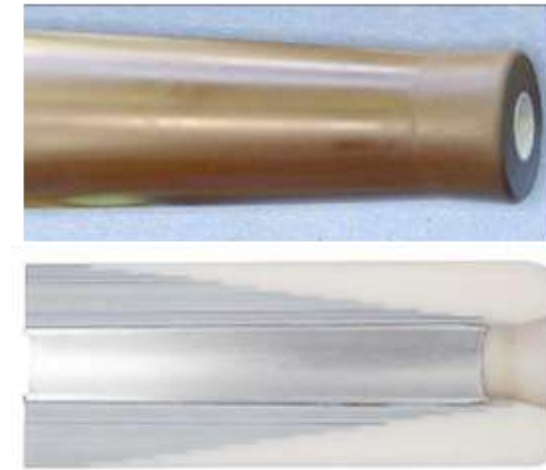
Monitoring

Monitoring solutions for surge arresters for early detection of failures.



- **Dry-type RIP (Resin Impregnated Paper) insulation**
- **Dry-type RIS (Resin Impregnated Synthetic) insulation**

Transformer to Air with Dry-type insulation, RIP or RIS
IEEE Standards C57.19.01-2000 and C57.19.00-2004



Busbar Systems



Wall & Transformer Bushings





Prefabricated electrical buildings fully equipped with medium-voltage switchgear, low-voltage switchboards, busbar systems, and auxiliary equipment. They are completely developed, manufactured, assembled, and pre-tested before being connected and put into operation on-site.

- Structural & Architectural elements include the structural steel and required fabrication.
- The Electrical Package includes required switchgear, UPS, Distribution Boards, Lighting, and control system, among others.
- HVAC and ventilation include Required Package/Split Units, Air Ducting, exhaust fan, and Dampers, among other components.
- The Fire Alarm detection system includes an addressable fire alarm panel and required fire alarm devices/detectors.

Reliable and efficient power supply solutions are provided, along with flexible options that can be adapted to individual requirements.

E-Houses are fast and easy to install and can be used as an interim solution. They are easy to upgrade and utilize available space optimally. This makes them the most suitable option for a broad range of applications, including restricted spaces, temporary power supply needs, or distribution grid extension projects.



ICING AND GALLOPING

Weather analytics and critical insight into ice loads, ice thickness, line galloping, and Line vibration

DYNAMIC LINE RATING (DLR)

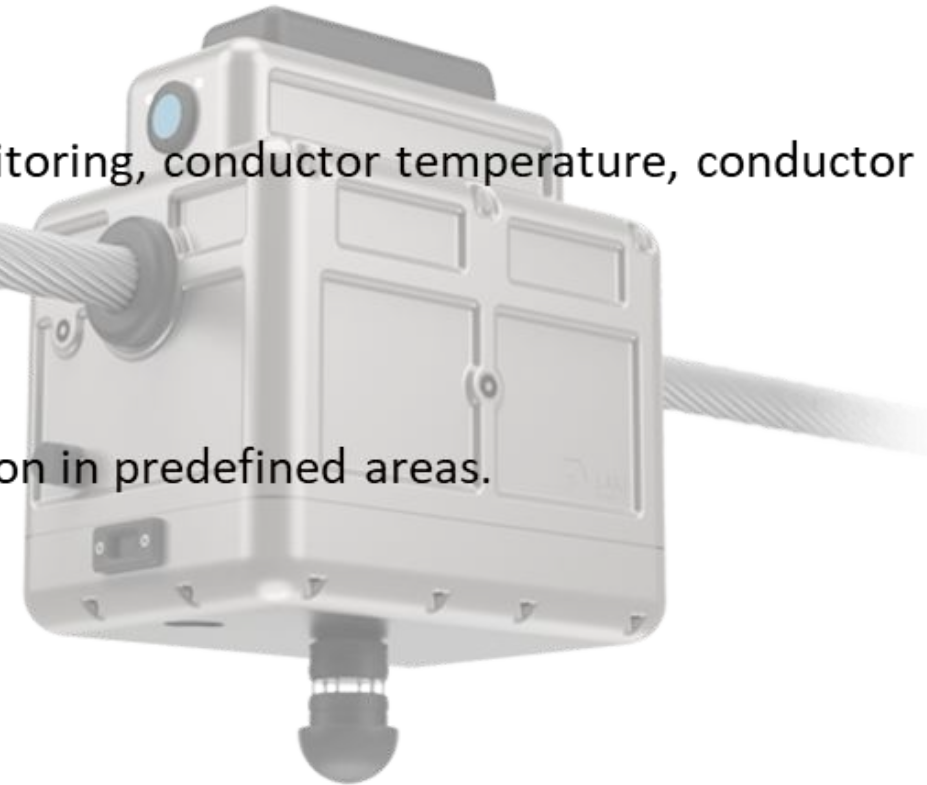
Utilizing real-time data, real-time ampacity monitoring, conductor temperature, conductor sag calculations, and ampacity forecasts

WILDFIRE AND SURVEILLANCE

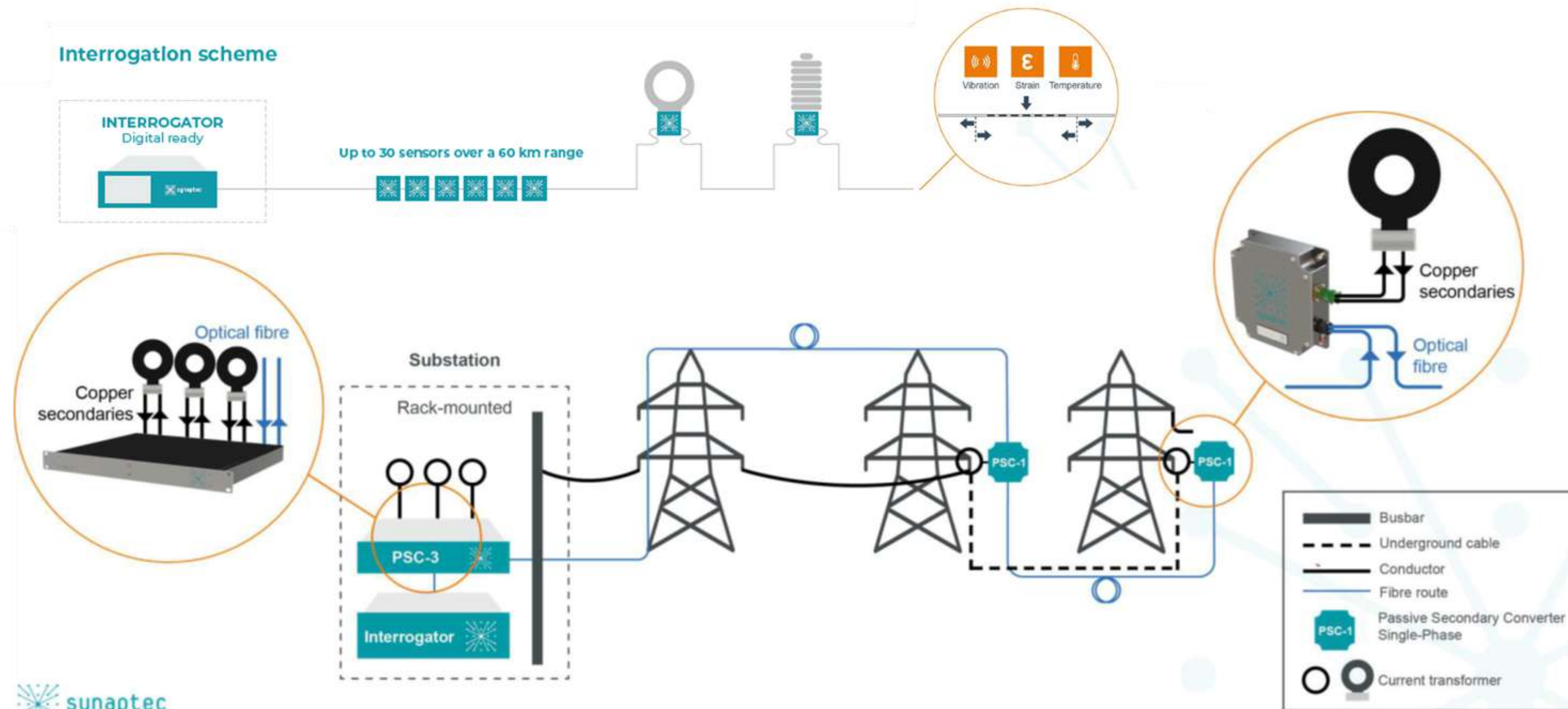
Thermal detection of smoke, wildfires, and motion in predefined areas.

Cloud-based Real-time Control Center:

Alerts, image recognition Ampacity forecasts, and Line health insights.



- Passive Secondary Converter (PSC) converts the secondary quantity into an optical signal in the fibre
- PSCs attach easily to secondaries of any industry-standard CT or VT, at any voltage or current level
- Packaged as single-phase (outdoor) or three-phase (rack-mountable)
- Published measurements and protection methodologies follow industry standards



Long Term Agreements

Raptronics Inc. has a 3-5 years blanket agreement with Hydro One, Manitoba Hydro & AltaLink to supply different types of products.



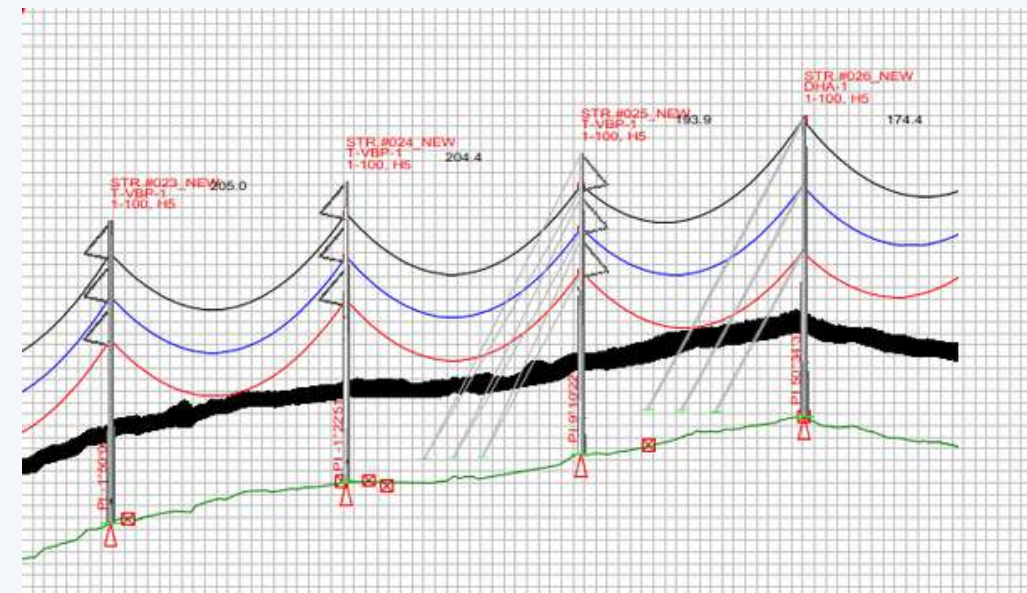
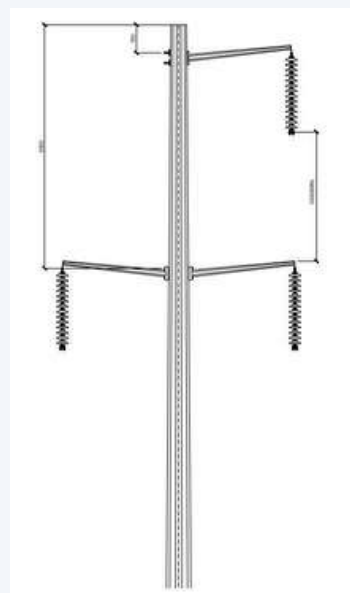
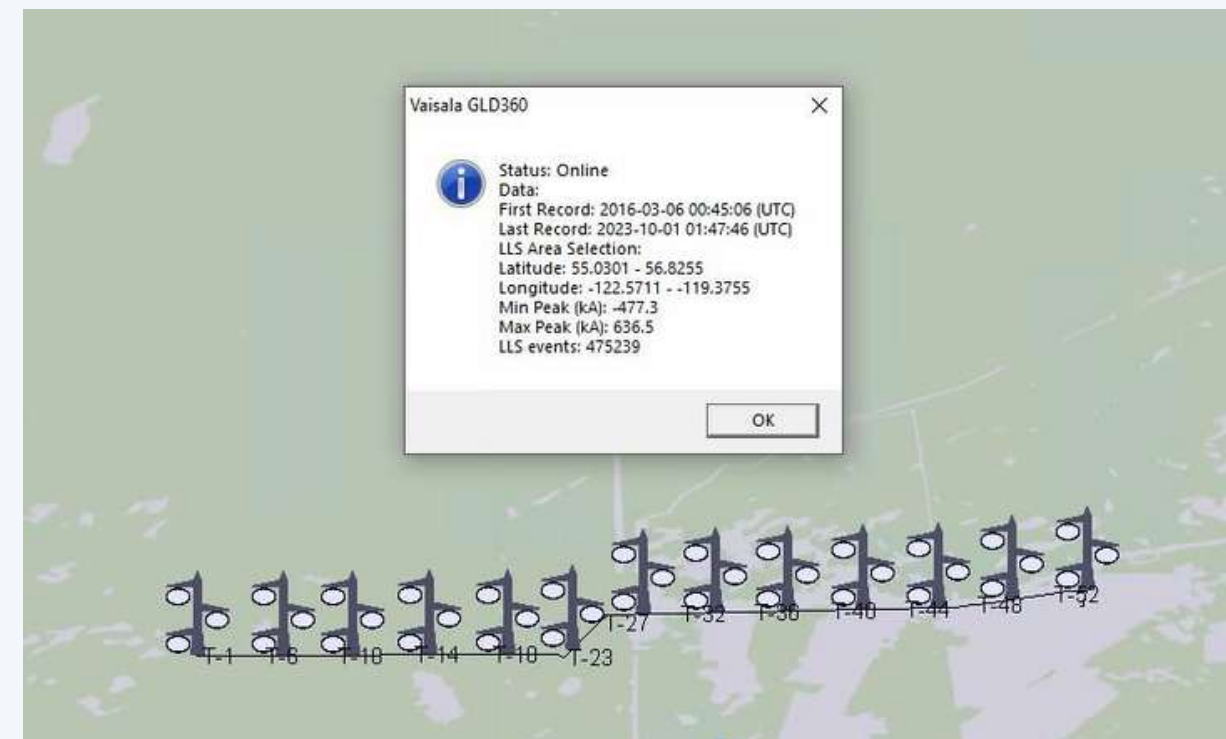
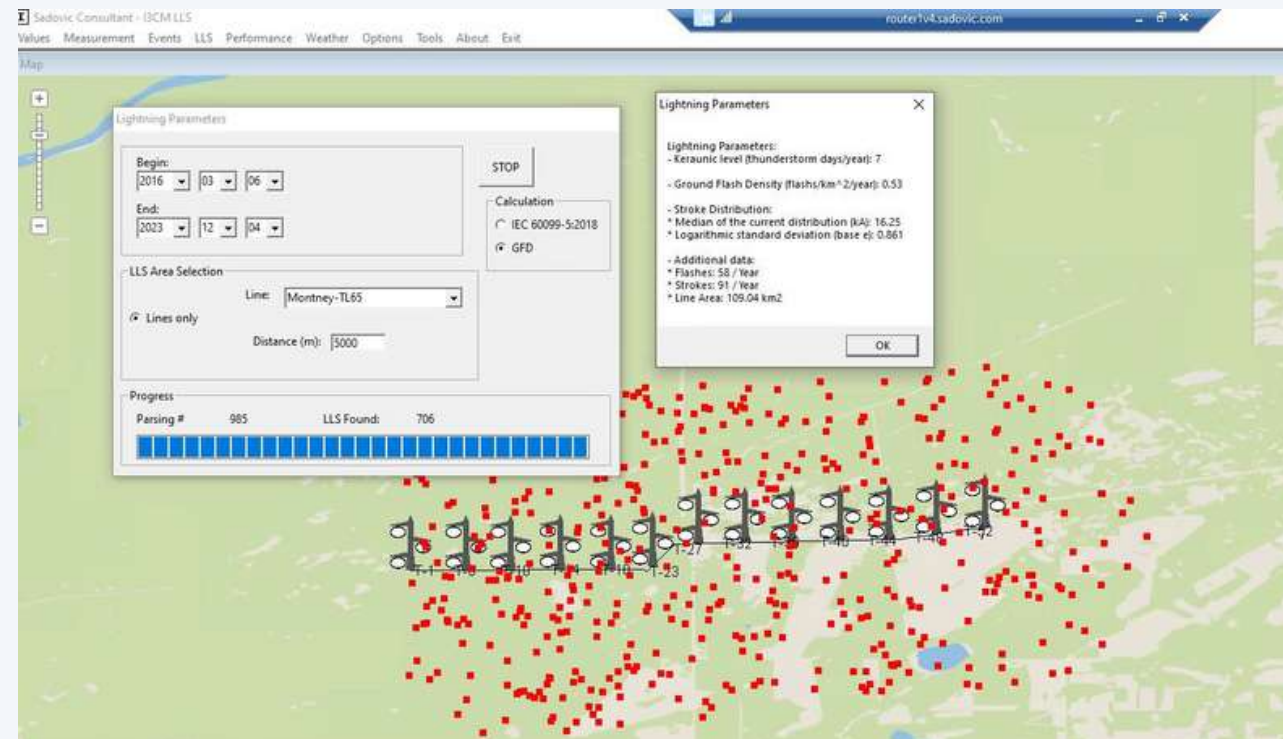
Many other customers are sourcing directly.

Our Projects

DURESCA Busbar System Installation- Cecil Substation Hydro One Ontario - Canada



Lightning Performance & Surge Arrester Study for 230kV Montney Transmission Line- British Columbia



RAPTRONICS

Contact Us

Saudi Arabia



+966 50 349 8386



info@raptronics.net



www.raptronics.net



Olaya, Riyadh

Canada

+1 (905) 617-8881

info@raptronics.ca

www.raptronics.ca

5063 North Service Rd.,
Burlington- Ontario, L7L 5H6

