

KM PowerCon

Smart Solutions for Smarter Industries



COMPANY PROFILE

www.kmpowercon.in



COMPANY OVERVIEW

About Us

KM PowerCon delivers end-to-end solutions in power systems, substation EPC, protection & automation, renewable integration, and industrial IoT. We combine global OEM technologies with local execution expertise, enabling industries and utilities to modernize, digitize, and future-proof their infrastructure.

Mission

To deliver reliable, smart, and sustainable power solutions by integrating world-class OEM technology with local execution expertise — ensuring grid compliance, faster approvals, and long-term value for utilities and industries.

Vision

To be Maharashtra's leading EPC & automation partner, bridging the gap between global OEM innovation and local grid needs, while expanding into renewables, BESS, and industrial digitalisation.





WHAT WE DO

At KM PowerCon, we deliver end-to-end power and energy solutions that keep industries and utilities running smarter and greener.

- ✓ Substation EPC (33kV – 400kV) – From design to commissioning
- ✓ Protection & Automation – IEC 61850 relays, SCADA, Control & Relay Panels
- ✓ Renewable + Storage EPC – Solar, BESS, and hybrid systems
- ✓ Retrofits & Modernisation – Upgrading aging infrastructure for future needs
- ✓ Industrial IoT & Monitoring – Smart devices, Modbus/MQTT, predictive maintenance
- ✓ Liaisoning & Approvals – Faster clearances with MSETCL & DISCOMs

OUR COLLABORATIONS

At KM PowerCon, we believe in delivering world-class solutions through strong alliances. Our partnerships with leading OEMs and technology providers ensure that every project benefits from cutting-edge products, proven expertise, and trusted execution support.

The logo for SECO, featuring the word "SECO" in a bold, green, sans-serif font.The logo for RBH Solutions, featuring the letters "RBH" in orange above the word "Solutions" in blue, with a small orange square to the left.The logo for Stucke Group, featuring a stylized graphic of three slanted bars in red, grey, and blue, followed by the text "stucke GROUP" in a grey sans-serif font.The logo for EMBELINK Technologies, featuring a red circular icon with a white lightning bolt and the text "EMBELINK Technologies" in red, with the tagline "Link to Embedded World" in small black text below.The logo for CBS Technologies, featuring the letters "CBS" in a large, bold, black font with a red "b", and the word "Technologies" in red below.The logo for KRYFS, featuring the word "KRYFS" in a bold, red, sans-serif font with a white lightning bolt over the "Y", set against a black background with a horizontal line below.The logo for ISHWARI ENGINEERS, featuring a stylized orange and blue circular graphic to the left of the text "ISHWARI ENGINEERS" in a grey sans-serif font.

SECO

SAHYADRI ELECTRO CONTROLS, BENGALURU



ALARM ANNUNCIATOR :

- Microcontroller-based annunciator systems available in 2 to 64 windows.
- Operates across a wide voltage range of 20 V DC to 275 V AC/DC.
- Optional advanced configurations include Wireless based, GSM-based annunciation and Modbus / RS-485 communication.

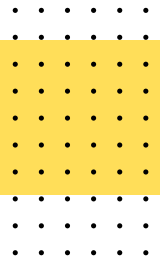


APPLICATION & USE CASES:

- Alarm Visualization in Control Rooms
- Automation Integration
- Remote Monitoring & Alerting
- Custom Facia Layouts

OUR CLIENTS:





STUCKE PROTECTION RELAYS:

- Development, production and sales of control and protection devices for safe and reliable power generation and distribution on land and at sea.
- 120 employees worldwide, thereof 70 located at the Head Office in Hamburg.
- Manufacturing exclusively in Hamburg own development department for hardware and software
- worldwide after-sales-service incl. repairs and spare parts.
- more than 40.000 installed systems within 18 years
- Reliable, flexible and fair – since 1968



APPLICATION & USE CASES:

- Power Sector
 1. Substation automation (IEC 61850, GOOSE)
 2. Protection & monitoring of transformers and feeders
 3. Centralized control rooms with SCADA
- Marine Sector
 1. Shipboard power management
 2. Generator control & synchronization
 3. Safety and protection relays for marine engines



Federal Wind Energy Association

Bundesverband WindEnergie



Network for the Wind Energy Industry



Association for Shipbuilding and Marine Technology



Member of the VDE FNN Forum Network

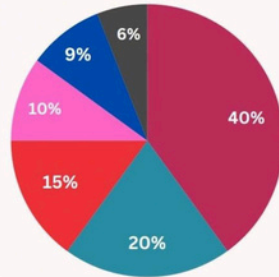
Technology / Network Operation in the VDE
(Association of Electrical Engineering, Electronics,
Information Technology)



General Association of Businesses in Northern
Germany

Reasons For Transformer Failures

- Overloading
- Insulation Failure
- Poor Maintenance
- Insufficient Cooling
- Mechanical Damage
- Manufacturing Defects



KRYFS

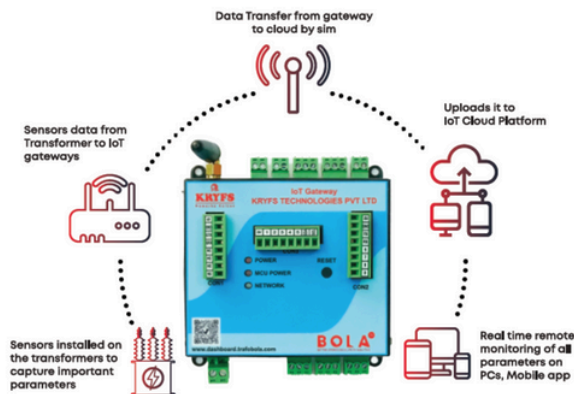
BOLA

KRYFS BOLA:

- IoT technology used for Monitoring of critical parameters of transformers on remote PC.
- Edge computing enables Real time Alerts and notifications.
- AI and ML empowered algorithms give advanced diagnostic analytics
- Digital Twin of your transformer is created online.
- Cyber Security, Data Privacy ensures your data is safe and secure.

PARAMETERS MONITORED

- Physical Parameters: Oil Temperature, Oil Level, Ambient Temperature, Ambient Humidity, Winding Temperature.
- Electrical Parameters: Voltage, Current, Power, Energy, Transformer Efficiency, Harmonics.
- Additional Parameters: LV terminals Lug Temperature, Tap Position Indicator, Moisture in Oil
- Energy Efficiency of transformer, Protection Relay Status of transformer (Buchholz, PRV, OTI, WTI etc.)
- Device Status: Geo Location, Device communication status, Asset Register

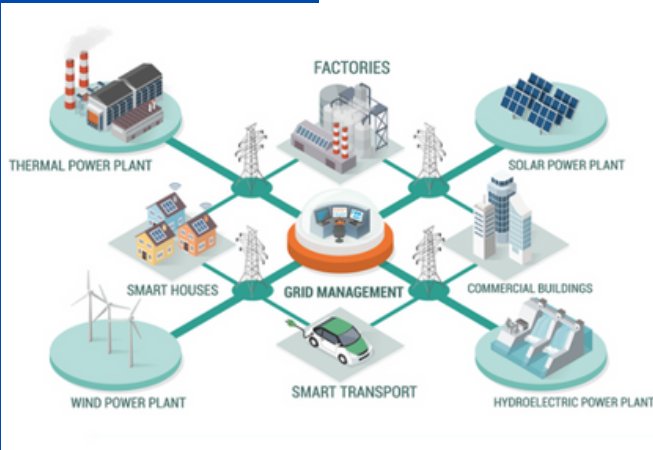
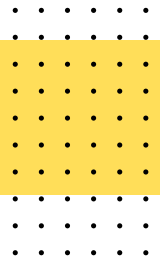


APPLICATION & USE CASES:

- Preventive Maintenance
- Energy Efficiency
- Grid Reliability
- Smart Utilities
- Solar and Wind farm with unattended transformers

CLIENTS:



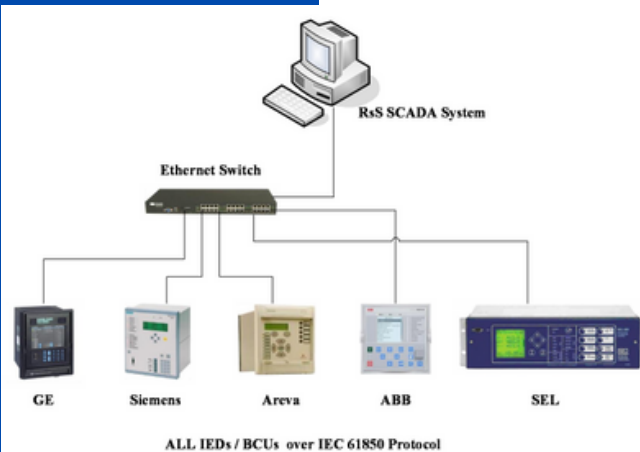


RSS SCADA:

- Multi-protocol SCADA platform (RsS SCADA) with support for **IEC 61850, 60870-5-101/104, Modbus, DNP3, MQTT**
- SCADA Gateways (RsS ICx) for seamless data exchange across substations, RTUs, and control centers.
- Protocol Analyzer (RPA 2004) for simulation, testing, and real-time communication diagnostics.
- Cyber-secure, scalable architecture

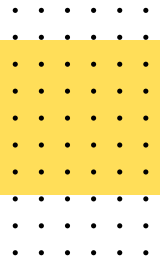
APPLICATION & USE CASES:

- **Substation Automation (SAS)** — Real-time monitoring, fault detection, automated switching.
- **Renewable Energy Plants** — Solar, wind, hydro SCADA with Power Plant Controllers (PPC).
- Integration with Power Plant Controllers (PPC) working experience with various EPC players like Tata Power and MNCs like Siemens, Hitachi etc.
- **Wind Turbine Energy Farm Management**
- SLDC Telemetry Integration



CLIENTS:





TRANSFORMER OIL DEHYDRATION PLANT:

- High-vacuum system for transformer insulating oil purification
- Removes dissolved gases, moisture, and solid contaminants
- Improves Breakdown Voltage (BDV) and reduces PPM levels
- Restores dielectric strength and cooling efficiency
- Available in portable or skid-mounted models for field/substation use



TRANSFORMER ONLINE DRYOUT SYSTEM:

- Removes moisture from transformer oil & insulation while in service.
- Lowers moisture to <5 PPM, improving oil quality & dielectric strength.
- Extends transformer insulation life without shutdown.
- SCADA/PLC enabled – real-time monitoring of PPM, BDV & key parameters.

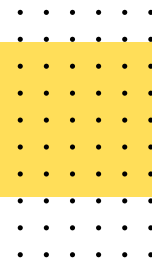


NITROGEN INJECTION FIRE PREVENTION & EXTINGUISHING SYSTEM (NIFPS):

- Protects transformers from internal & external fire hazards.
- On fault detection, injects nitrogen gas & isolates conservator.
- Automatically extinguishes flames without manual intervention.
- Works in indoor & outdoor installations, reliable in all weather.

CUSTOMERS





DIGITAL OTI & WTI FOR MARSHALLING BOX

- Site-Selectable CT Ratio & Delta T Gradient
- Wide Auxiliary Supply Range: The device operates on range of 85 to 440 VAC/DC.
- High Ingress Protection (IP-66): The device offers superior weather protection with an IP-66 rating
- Integrated Remote Communication & RS-485 for SCADA is also optionally available.
- Available in portable or skid-mounted models for field/substation use



APPLICATION & USE CASES:

- Monitors and protects oil-cooled transformers
- Tracking oil and winding temperatures, triggering alarms, trips, and fan control
- Extend transformer life and prevent failures.



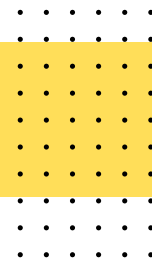
OUR PRESENCE

GOVT / SEMI GOVT / PSU



PRESTIGE TRANSFORMER MANUFACTURERS / END CUSTOMER





Leaders in Substation erection Line Stringing and Bay Erection for RE



Services:

- Design, Engineering, Procurement, Erection, Testing and Commissioning of EHV Lines up to 400 kV.
- Overhead/Underground Independent feeder line.
- Power Transformer/V.C.B/EHV C&R Panel/Metering Panels.
- Design, Engineering, Procurement, Erection, Testing and Commissioning of EHV Substations (AIS) up to 400 kV and GIS up to 220 kV



Trusted clients



PROPRIETOR

Keshav Omprakash Mundada is the Founder & Proprietor of KM PowerCon. An Electrical Engineer from K.K. Wagh College, Nashik (2019), he further specialized with a Diploma in PLC, SCADA & Automation from Technologics, Bangalore (2022).

His expertise extends to EHV transformer testing, troubleshooting of solar projects, and developing customized technical solutions for MSETCL in collaboration with global OEM partners.

Keshav is also known for facilitating product approvals with MSETCL, leveraging his strong and trustworthy relationships with utility executives. His blend of technical capability, problem-solving mindset, and industry networks positions KM PowerCon as a reliable partner for power sector innovation and execution.



With hands-on experience across 50+ EHV substations of MSETCL, Keshav has led projects involving:

- Retrofitting of Control & Relay Panels
- Wireless annunciator solutions and SCADA implementation (notably at 220 kV Balapur)
- RTU integrations for real-time data visibility to Maharashtra's Load Dispatch Centre
- BOLA® IIoT solutions in both government utilities and private industries

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