# Levine Lectronics and Lectric

# Line Card

Serving Georgia, Alabama, Florida, Mississippi, Tennessee, and Arkansas

# The Team

#### **Outside Sales**

John Levine, PE (GA)

Rich Lussier (GA, TN)

Billy Sanders (AL,MS,FL Pan)

Adam Norrell (AL,MS,FL Pan)

Carlin Boswell (FL, S. GA)

Maurice Allen (AL, GA, TN)

Michael Kahn (GA)

Kris Vance (FL)

Jeff Shallbetter (FL)

Jay Johnson (Global)

Terrence Smith (TN)

Scott Benson (AL)

Trent Yates (AL and GA)

#### **Inside Sales**

Ava Maguire

Doris Sherrill

Bill Walters

Brooke Sever

Austin Broadfoot

Amanda Hilton

Barbara Sanders

Sarah Nottke

Logan Martin

Kyle Walding

David Drishpon

# PpC

# Power plus Controls

- Sister Company to Levine Lectronics and Lectric, Inc.
- Electrical Distributor to assist Customers and Distributors to find hard to find items, reconditioned equipment, emergency equipment
- Service Arm for L<sup>3</sup>



# GE Multilin and ITI

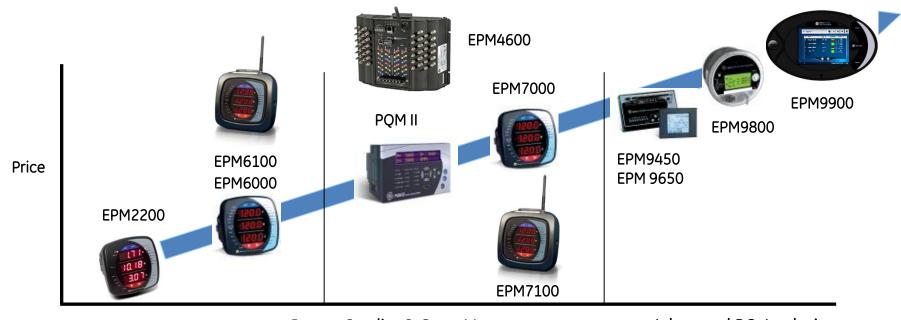






# GE Multilin Meters

#### GE Multilin has a full spectrum of advanced metering



**Basic Power Monitoring** 

Power Quality & Cost Management

Advanced PQ Analysis

- Replacement of Analog Meters
- Campus Monitoring
- Energy Management

- Generator over and under voltage
- Over frequency monitoring
- Continuous monitoring
- Voltage Studies

- Monitoring Transformer losses
- Monitoring transients
- Time of Use energy use

Gateway Capacity

# GE Automation

D25

iBox

iBox

#### **Applications**

- Mini Data Concentrator
- Distribution Automation / Pole Mount applications.
- Small Point Count RTU
- Digital Fault Recorder
- Measurement
- Bay Controller
- M&D Equipment Integration
- Medium Centralized Systems.
- Integration of Legacy devices.
- Communication to Master Stations.

- IEC 61850 SystemsCyber Security
- Local HMI

• Large Centralized SCADA systems.

**System Complexity / Size** 

Large Serial Port density.



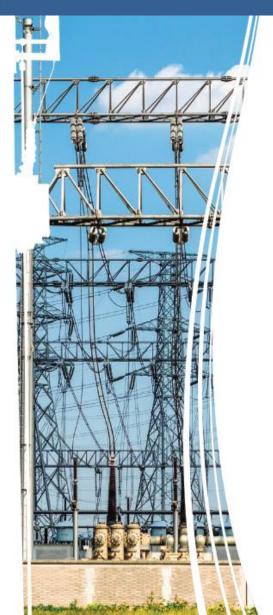
Data Concentration
Comprehensive Communication Protocols Library

Modular / Expandable





# GE Monitoring and Diagnostics



GE provides power utilities and industrial organizations with a wide range of transformer monitoring solutions. For more than 35 years, we have developed advanced technological hardware and user-friendly software to enable continuous monitoring, detect impending issues and provide accurate diagnostics to help maximize critical asset operational uptime.





# GE HV/ MV Equipment













### Tavrida Electric

Light Duty Breaker



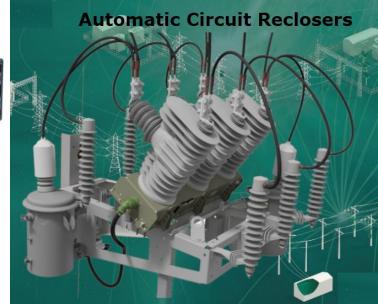


15 and 27 KV Breakers and Reclosers

Medium Duty Breaker



Heavy Duty Breaker





# **EP Industrial Solutions**



# ABB's Full UL rated Transfer Switch and Paralleling Switchgear portfolio

**Open Style ATS** 

**Enclosed ATS: Going to Market as ABB Zenith** 

#### **TruONE**

#### **ZTG-** Series



#### Industrial, W/WW

- Standard transition
- 30-1200A, 200-480V ratings
- 2, 3, or 4 pole applications
- · Enclosed in type 1 or type 3R enclosures

#### **ZTS T-Series**



#### **General, Mission Critical**

- · Standard or delayed transition for transfer with a timed "off" position
- Ekip connectivity and advanced interface from 30-1200A.
- (2, 3, or 4 pole), and service entrance

#### **ZTGSET- Series**



- Standard, delayed, or closed transition for make-before-break switching
- Extended ratings up to 4000A & 600Vac (2, 3, or 4 pole), and service entrance
- · Maintenance bypass available on all frames and transition types

#### **ZTSSET- Series**



- · Specially-designed for critical applications, with built-in PQ metering, enhanced diagnostics, and connectivity
- Full color graphical display
- Standard, delayed, closed transition & bypass up to 4000A & 600Vac (2, 3 or 4

- Open style ATS in standard or delayed
- 30-1200A, 200-480V ratings 2, 3 or 4 pole applications
- Modular all-in-one design with wide range of features in 3 controller levels

#### Data Center, Finance, 24/7 Processes,

Extended ratings up to 3000A & 600Vac

#### ABB Portfolio UL Rated Transfer Switch and Paralleling Swtichgear Portfolio

Critical Power- Power Switching

#### ATS Product Portfolio Overview















Application	Commercial and Light Industrial, Data Center	Commercial, Infrastructure, Light Industrial	Data Center, Finance, 24/7 Processes, General, Mission Critical	Commercial Building, Light Industry and Infrastructure	Commercial Building, Light Industry and Infrastructure
Product series	TruONE (OXA/OXB series)	ZTG Series	ZTS T-Series	ZTGSET- Series (Service Entrance Rated)	ZTSSET- Series (Service Entrance Rated)
Amp	30-1200 A	30-3000 A	30-3000 A	30-1200 A	30-1200 A
Controller Type	Level 2 (Dip) Level 3 (LCD) Level 4 (Touch)	Level 3 (LCD)	Level 4 (Touch)	Level 3 (LCD)	Level 4 (Touch)
Transition Type	Open Transition Delayed Tranistion	Open Transition Delayed Tranistion	Open Transition Delayed Tranistion	Open Transition Delayed Tranistion	Open Transition Delayed Tranistion
NEMA type enclosure	Open	1,3R,4,4X, 12	1,3R,4,4X, 12	1,3R,4,4X, 12	1,3R,4,4X, 12
Voltage Rating	200-480V	200-480V	200-480V	200-480V	200-480V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Phase System	Single/Three Phase	Single/Three Phase	Single/Three Phase	Single/Three Phase	Single/Three Phase
Neutral Configuration		Solid Switched	Solid Switched Overlapping	Solid Switched	Solid Switched Overlapping
Communication Option	Modbus RTU Serial Modbus TCP/IP Ethernet IP	Modbus RTU Serial Modbus TCP/IP Ethernet IP	Modbus RTU Serial Modbus TCP/IP Ethernet IP	Modbus RTU Serial Modbus TCP/IP Ethernet IP	Modbus RTU Serial Modbus TCP/IP Ethernet IP

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# EP Industrial Solutions

### Single and Three Phase UPS

#### **TLE Series**



TLE Series UPS - 60 Hz, 225-1000kW



TLE Series UPS - CE, 30-40kW



TLE Series UPS - CE, 40-120kW Scalable



TLE Series UPS - 50 Hz, 160-400kW

#### SG Series



SG Series UPS - 60 Hz, 10-750kVA



SG Series UPS - 50 Hz, 10-600kVA, 400Vac

#### LP33 Series



LP33 Series II UPS - 15-100kVa, UL Version 208/120VAC



LP33 Series I UPS 10-120kVa, CE Version 380/400/415VAC









#### **TripleSwitch**

• Range: 100A-3000A

Connectors:

 400A Cam-style Male & Female Quick Disconnects

Enclosure Construction:

NEMA 3R GalvaSteel

304SS and 316SS Options

#### **StormSwitch**

• Range: 70A-3000A

Connectors:

 400A Cam-style Male Quick Disconnects

#### • Enclosure Construction:

NEMA 3R GalvaSteel

304SS and 316SS Options













# **Liquid Filled Transformers**





- Distribution, Power, Rectifier, and Grounding Transformers
- ■UP to 1400MVA
- Primary Voltages up to 500KV



## **Liquid Filled Transformers**

#### PAD MOUNT LOOP FEED DEAD FRONT

- 500 kVA 7000 kVA
- 15 KV 34.5 KV
- COPPER or ALUMINUM WINDING
- EFFICIENCY: PER DOE 2016 EFFICIENCY
- BIL HV 150 200KV, LV 30 45 KV
- DELTA / GROUNDED WYE
- TEMPERATURE RISE 65º C
- FLUID MINERAL OIL
- VOLTAGE ADJUSTMENT +5% TO -5% IN 2.5% STEPS
- GAUGES PRV, PRESSURE/VACUUM LEVEL, TEMP.
- PAINT POWDER COAT BAKED EPOXY
- ANSI 61 (OTHER COLORS AVAILABLE)
- RADIATORS: GALVANIZED, BOLT-ON /
- STAINLESS STEEL DOOR HINGES
- PADLOCKING AND PENTA HEAD BOLT,
- 3 POINT LATCHING
- 1" OIL DRAIN VALVE
- PRV, PRESSURE/VACUUM LEVEL, TEMP.

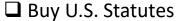




**E2X Pad Mount Transformer** 

## **Dry Type Transformers**

- ☐ Capacity: 9 KVA thru 10 MVA
- ☐ Voltage: up to 34.5 KV
- Winding Configurations
  - Multiple Pulse (6, 12, 18, 24, etc.)
  - Unit Substation
  - Mining
  - Scott T Connection
  - Custom Medium Voltage Dry-Type



- Made in USA
- ARRA (American Recovery and Reinvestment Act)
- BAA (Buy American Act & Buy America Provisions)
- TAA (Trade Agreements Act)
- SPPA 73 P.S. 1881 (Steel Products Procurement Act)







# Cast Resin Transformers

- Cast Resin Power Transformers:
  - From 150kVA to 25MVA
  - Primary Voltages up to 34.5kV
  - Transformers are rigidly bound in epoxy via a vacuum casting process
  - Cast resin types highest on evolutionary spectrum of transformer technology
  - Epoxy cast coils arranged coaxially around an iron core





#### **High Resistance Grounding**

Post Glover's industry leading PulserPlus.Net™ is an integral part of a system wide 98% arc-flash prevention strategy as well as providing 24/7 system reliability. The only digital HRG system on the market delivers flexible defense and the ability to communicate with your existing network protection package.

- · UL and C-UL certified
- · Available for Delta connected networks
- · Low and medium voltage designs
- Stand-alone or switchgear cubicle installation

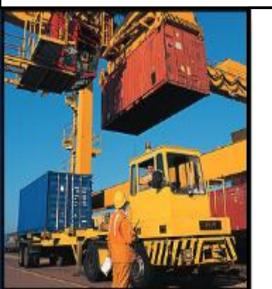


#### Low Resistance Grounding

Standardized, pre-engineered packages allow for quick shipment and reduce your cost. Customers rely on our extensive experience to efficiently deal with unique applications.

- Available UL and CSA certifications eliminate field inspections
- · Current transformers
- Special enclosure finish and materials
- · Elevating structures
- Special side or top entrance/exit bushings
- · Custom ratings





#### **MOTOR CONTROL**

Relying on the industry's most innovative resistor manufacturer with over 100 years of experience takes the guesswork out of your motor control applications. With all resistor elements made from rugged, specialty stainless steel alloys, Post Glover is the one source for original or replacement resistors.

 Crane control resistors for all sizes of electric overhead cranes

 Wound rotor, induction and squirrel cage motor resistors







# AMR PEM/CO

#### HBL

#### **Batteries and Battery Chargers**

- Nickel Cadmium
  - Pocket Plate
  - Sintered / PBE
- Vented Lead Acid
  - OPzS (tubular)
  - Pasted Plate
- VRLA
  - o Gel
  - o AGM
- Battery Chargers
- Battery Racks and Cabinets





















## **Enersys Batteries**





**POWERSAFE® GN BATTERIES** 

POWERSAFE® MSERIES (DDM) BATTERIES







NORTHSTAR® RED BATTERY®

NORTHSTAR® UPS BATTERY

NORTHSTAR® HT RED Battery®





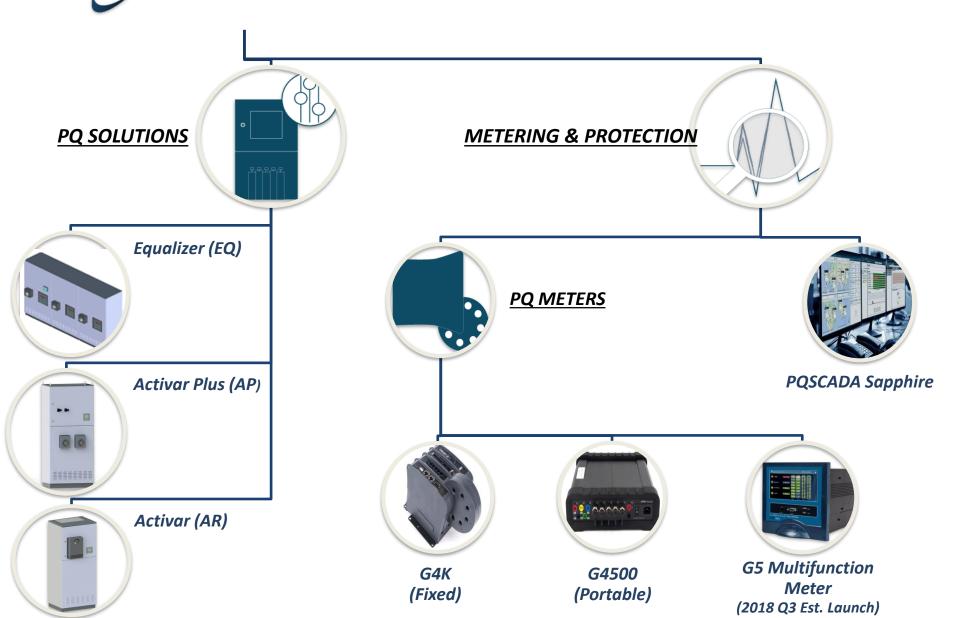


DATASAFE® DXC BATTERIES

DATASAFE® XE BATTERIES

DATASAFE® D BATTERIES

# ESPEC | PRODUCT LINE OFFERING





#### **CONNECT TO THE GRID**

The SPS product line includes a full complement of metal enclosures and buildings, low voltage controls and full switchgear systems up to 38kV





IEEE 1558 and IEEE 891 Switchgear





# Generator Paralleling Switchgear and Low Voltage Switchgear and Switchboards

- Voltage Rating: Up to 27KV
- Ampacity: Up to 10,000A
- Short Circuit Current Rating: Up to 200kA
- UL891, UL1558, & Metal Clad Available
- Suitable for Service Entrance Equipment
- Nema Type 1,3R,4,or 12 Enclosures
- Corrosive Environment Enclosures Available
- Front, Rear, and Side Access, optional future expansion provisions
- Engineering Design flexibility allows for custom sheet metal and bussing to allow for bus duct, cable, and transformer connections



# Padmount Switchgear

 5-35kV Padmount and Submersible Vacuum Switchgear



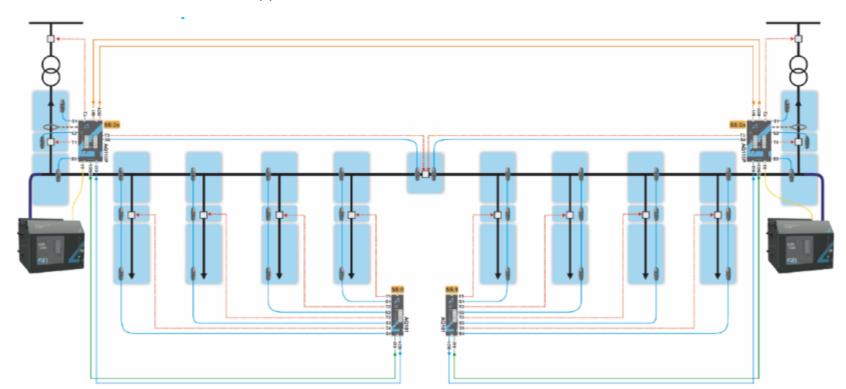






### Arcteq Arc Flash Quenching Systems

- ELIMINATES the need for all arc-rated PPE clothing.
- Why "redirect" or "vent" when you can ELIMINATE?
- The ultimate solution for mitigating arc flash hazards.
- Minimizes damage to critical equipment assets.
- Meets IEEE C37.20.7-2007 Arc Resistant Switchgear requirements.
- Protects both switchgear and downstream assets such as MCCs.
- Guaranteed low-voltage arc quenching in 6 milliseconds.
- Guaranteed medium-voltage (up to 15 kV) arc quenching in 6 milliseconds.
- Less than 1.2 calories per cm<sup>2</sup> incident energy at the Working Distance.
- Available in both new and retrofit applications UL Listed.

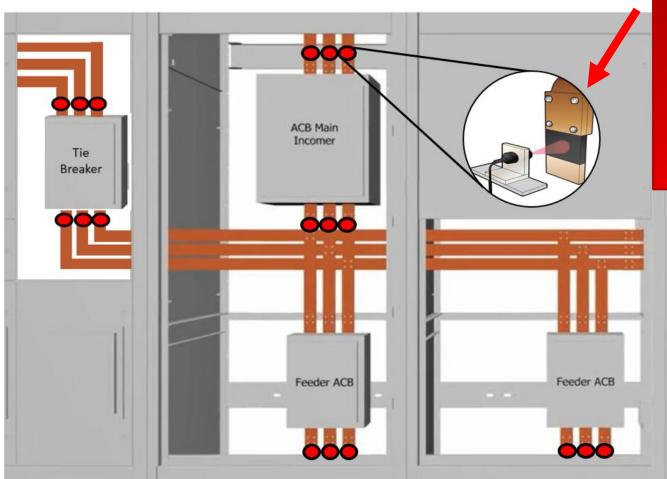






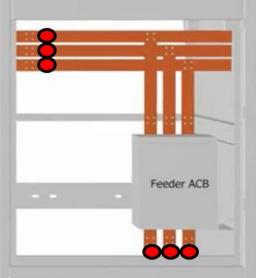
#### **24x7** Thermal Monitoring

MV, LV, MCC Switchgear and Transformers: IR



#### **Busbar Joints**

- IR Sensors monitor ACB Main Incomers, line and load side
- both sides of any bus couplers or tie breakers;
- ACB Feeders load side
- shipping/transport splits and other critical connections made on-site



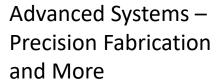
# METAL ENCLOSED BUS SOLUTIONS



Segregated and Non-Segregated Bus



Iso-Phase Bus





**Bus Bar Fabrication** 





#### Breadth and depth in expert products

DrivePro® Extended Warranty **VLT**®





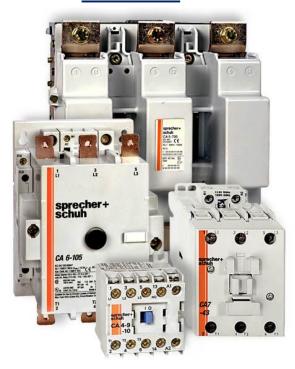


#### **Manual Motor Control**

#### **Contactors**

#### **Softstarters**







#### **Overloads**







#### **Auer Signal Lights**



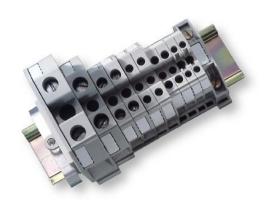
#### **Pushbuttons**



#### **Timing Relays**



#### **Terminal Blocks**



#### **Mini Circuit Breakers**





# Comsys Practical Solution to Eliminate Harmonics ADF Product Range 208-690Volts



# BEST

#### **Harmonic Mitigating Solutions Summary**

- RLW Line Reactors
  - 30 35% THID performance
  - Buffer for surges, transients, and power line disturbances
  - Economical insurance policy for system reliability
- Matrix E-Series Harmonic Filter
  - 8 12% THID at full load
  - 12 17% THID at 40% load
  - Economical solution for harmonic mitigation
  - Supports compliance of IEEE-519
  - Meet international harmonic distortion requirements of 10 – 15%

- Matrix AP harmonic Filter
  - Adaptive passive technology changes the inductance for better performance at light loads
  - 5% THID at full load
  - 8% THID at 30% load
  - Lower kVAR; generator compatible
  - Meets IEEE-519 requirements











Dynapar offers a wide range of NorthStar, Hengstler and Dynapar magnetic and optical encoders, many of them available with dual sensor output for maximum uptime.









SOLID STATE CURRENT SENSOR

### Timers and Relays



TRUE OFF DELAY
CUBE RELAY TIMER



CUSTOM CURRENT SENSOR



SOLID STATE TIMER



CUSTOM CONTROL



**HVAC CONTROL** 



**HEAT PUMP CONTROL** 



MICROPROCESSOR RECYCLE TIMER





Available in a wide variety of timing modes.



#### 0

#### VOLTAGE & PHASE MONITORING CONTROLS

Phase monitoring available from 208 to 575 Volts. Voltage monitoring from 24 to 276 Volts.





### OVER / UNDER CURRENT SENSORS

For AC sensing from .1 to 20 amps.





### UNIVERSAL VOLTAGE POWER RELAYS

Available in 8 amp or 16 amp outputs in 3PDT or SPDT.

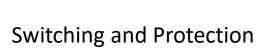
















#### **Boltswitch**

**Bolted Pressure Switches** 



**Energy Storage** 



**PowerSmiths** 































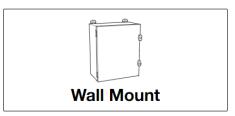






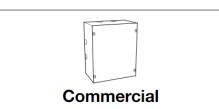


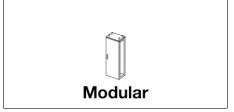


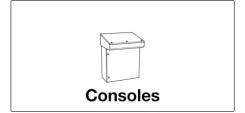




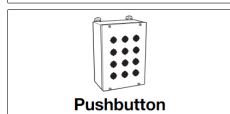
























Control Transformer with F2 primary fusing



Control Transformer Base Unit



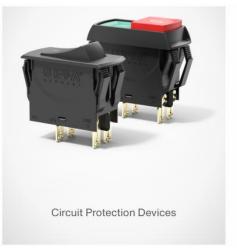
F4 secondary fuse block holder on SNC Control Transformer allows easy factory or field installation of fuses/contactors

#### **Transformer Standard Voltages**

- Primary: 220 x 440, 230 x 460, 240 x 480 Secondary: 110/115/120 50/60 Hz
- Primary: 440/220/200, 460/230/208, 480/240 Secondary: 110/23, 115/24, 120/25 50/60 Hz
- Primary: 460/230/208, 480/240, 440/220/200 Secondary: 115/120/110 50/60 Hz
- Primary: 550/575/600 Secondary: 110/115/120 50/60 Hz
- Primary: 120/240 Secondary: 24 50/60 Hz



# E-T-A Engineering Technology



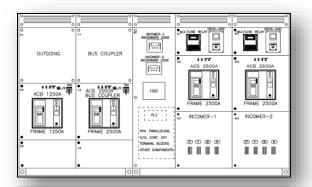




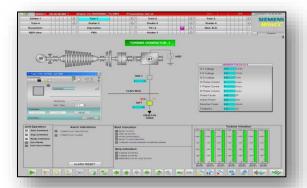


# SIBA Fuses

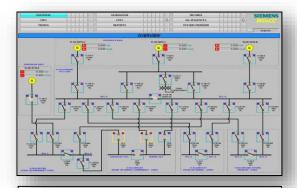




LV & MV paralleling switchgear.
Built to (UL / ANSI & IEC) standards.



**Turbine control**, generator protection Power plant - distributed control

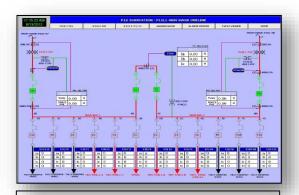


Power management system

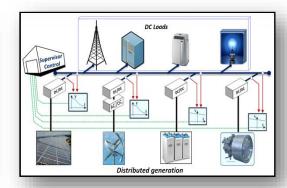
Generator based prime power ,back up.



Remote generator/asset monitoring Geo Fence, RTU, remote control, 3G



**Switchgear automation - SCADA** main-tie-main, main-tie-generator



**Microgrid solutions**AC, DC, DC Storage solutions

Engineer - Build - Startup

# Thank You!