



POWER GRIDS

ABB Customer World

Utility products, systems and services on display

Power Grids at ABB Customer World

Transformers

- Power Partners (PPI)
- Micropole transformers
- Resilient distribution transformer
- Solar step-up transformer
- AssetShield transformer
- Dry-type transformers
- CoreSense transformer sensors
- TRES (Transformer Service) Trailer
- RecX (Rapid Recovery Transformer Program)
- Dry-type bushings
- Insulation components: (VRLTC, O+Dry bushings, O+C oil-filled condenser bushings, T bushings for high temperature applications, Oil level indicators, VUCG tap changer, and Buchholz relay)
- Transformer experience walk-thru tunnel
 - A virtual experience to show what it is like to be a distribution transformer in different environments, such as coastal storms, oil rigs, underground vaults, graffiti, fertilizer/irrigation, etc.

Power Grids at ABB Customer World

High Voltage

- AIS switchgear
 - Dead Tank Breaker with Motor Drive
 - Fiber-Optic Current Sensor (FOCS) sensor ring
 - PASS hybrid switchgear modular units
 - Live Tank Breaker (LTB) circuit switcher
- GIS switchgear
 - 170 ECO GIS and monitoring cabinet
- Generator Circuit Breakers
 - HEC 10-170
 - GMS Monitoring system
- Instrument transformers
 - SSMV 650 (Station Service Voltage Transformer)
 - 345 kV CT/VT/TG Combi 362
- HV service
 - Radiography
 - SF6 gas recycling system and services
 - Advanced services & lifecycle services
- Surge arresters
 - DC railway arresters
 - CalFire, General arresters
 - SolidGround grid stability & harmonics mitigation
 - Low voltage capacitors
 - CLMR bank – detuned capacitor bank with reactors
 - Qcap Bank
 - Harmonic demo
- HV capacitors
 - Shunt capacitor bank and reactor
 - Volt-Var Management Software /Qpole capacitor
 - Metal Enclosed Capacitor Bank (MECB)

Power Grids at ABB Customer World

Grid Integration

- EPC solutions & services
- Energy storage solutions
- FACTS (Flexible Alternating Current Transmission Systems)
 - Static Var Compensators (SVCs)
 - SVC Light
 - Series capacitors
- HVDC solutions
- Consulting

Power Grids at ABB Customer World

Grid Automation

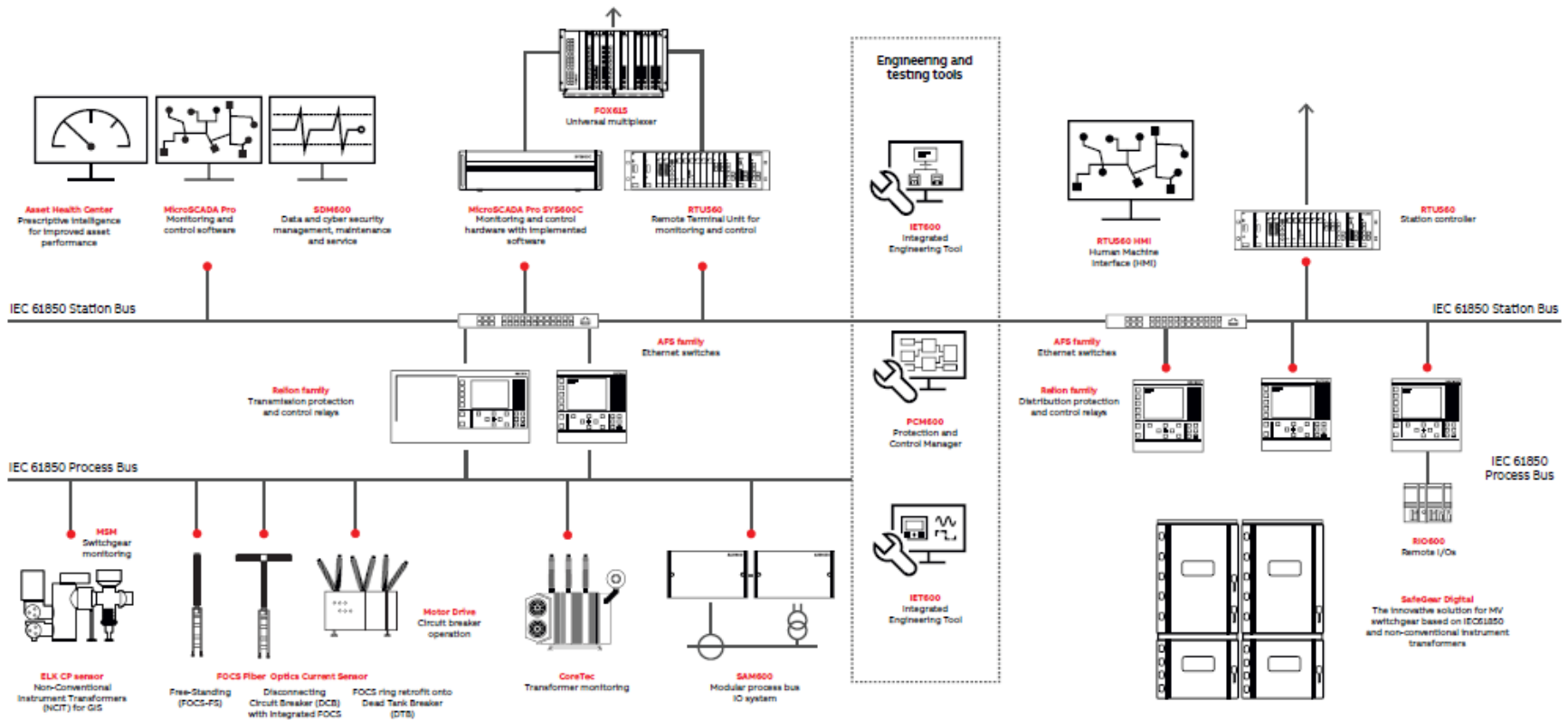
- ABB Wireless
 - Tropos 6420, 1410, 2410 mesh routers
 - TeleOS narrow band radio
 - MicroOS broadband mesh client node
 - SuprOS communication network management system
- Substation automation
 - Digital substation exhibit (See slide 6)
 - Protection & Control and Communication rack
 - Omicron and sensor head
 - Fiber-optic current sensor (FOCS)
 - SAM 600 process bus I/O system
 - Generator protection rack
 - MicroSCADA historian
 - SDM600 – System Data Manager
- Enterprise Software
 - Electronic Shift Operations Management System (eSOMS)
 - Asset Health for generation
 - Energy Portfolio Management (EPM)
 - Network Manager Energy Management System (EMS)
 - Network Manager Advanced Distribution Management System (ADMS)
 - Outage Lifecycle Management (OLM)
 - Ellipse Enterprise Asset Management & analytics
 - AssetHealth, eSOMS and Ellipse for Digital Substations
 - Distributed Energy Resource Management System (DERMS)
 - Ellipse Asset Management for renewables
 - Ellipse Asset Management for Infrastructure (Water/Transportation)

Power Grids at ABB Customer World

Digital substation fully integrated exhibit

Transmission

Distribution



Power Grids at ABB Customer World

Other

- ABB Ability – entire range of digital solutions
- Microgrid, renewables and grid modernization system displays
- E-mobility, rail and transportation solutions
- Full array of power and automation products, systems and services for industry and infrastructure
 - Process measurement and control
 - Mechanical, motion and machines
 - Facility electrification
- Collaborative operations demonstrations
- Innovation lab display of corporate research projects
- Comprehensive power plant control applications
- Solar Inverters
- Motors
- Excitation
- Medium Voltage Switchgear, Distribution Automation, sensors, instrument transformers.
- Electrification Products

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