



Brightlayer Utility Portfolio Update

Digital solutions for utilities

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Solutions that meet your challenges

Plan

Operate

Optimize

Brightlayer digital solutions for utilities



Distribution planning



Smart grid



Demand management



Distribution automation



Substation automation



Services

Distribution equipment for utilities



Capacitors



Medium voltage circuit breakers



Medium voltage switchgear



Network protectors



Voltage regulators



Reclosers and controls



PEAK™ transformers



Current-limiting fuses



Overhead switches

Distribution planning

CYME power system analysis software portfolio provides end-to-end system analysis tools from power flow to dynamic studies of granular utility grid models.

Features:

- Model any type of electric network, including control devices, load and DER operating characteristics, etc.
- Perform complex simulations to assess and optimize system performance
- Efficient grid design, analysis, planning and operation
- User-friendly and flexible interface to adapt to different usage contexts

What's new:

- **Load Relief DER Optimization**
- **Grid connected or islanded Microgrid Modelling**
- **Integrated Cable Thermal Analysis for various types of installations**
- **DER Dynamic time series simulations**



Continuous development



Improvements based on customer and industry needs

5000+ Users in 100+ Countries



Utilize CYME power engineering software

20 times Faster



Eaton renewable capacity module vs. competition

Customizable packages



Designed for specific customer requirements

34+ Years Experience



Serving utilities with CYME software



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Smart grid – AMI

Smart grid network solution provides industry-leading infrastructure supporting advanced metering, demand management and grid operation for municipal and cooperative utilities.

Features:

- Smart grid management software
- RF network for electric, water & gas
- Integrated load switches for Demand Response
- Integrated basic Distribution Automation
- 100% self-forming, self-healing, self-optimizing solution
- Industry-leading outage management performance
- Automated power/data rate modulation to maximize performance
- Meter independent solution provider

What's new

- **Yukon 9.4**
 - Security Enhancements
 - MultiSpeak 4.1 addition
 - Mapping shapefile integration
- **RF Network Firmware 9.7**
 - Communication Improvements
 - Support for New Hardware
- **Gas Node and Cellular IPLink Relays**
- **Operational Analytics Offerings**



**Leader in
Munis/Coops**



300+ installations at
Public Power
Utilities

**Low Total Cost of
Ownership**



Flexible approach to
meet utility needs

**5.5+ Million
AMI meters**



Deployed network
nodes and counting

**20+ Projects per
Year**



Fastest growing
vendor

**20+ Years
in AMI**



Proven track record as
a partner



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Smart Grid - Demand Management

Demand Response solutions portfolio provides utilities with reliability and flexibility in deploying Grid Services required to support Energy Transition and Renewable Adoption

Features:

- Demand Response Software platform used to manage resources across the Distribution System.
- Product portfolio with Grid-Edge Intelligence to optimize control of connected assets.
- Brightlayer integration service to enable 3rd party applications access to cellular and Wi-Fi connected products.

What's new:

- **Yukon 9.4**
 - Security Enhancements
- **Two-way Cellular LCRs**
 - Migration of one-way devices
 - Compliments RF Networks for hard-to-reach areas
- **Leveraging connected devices**
 - DR, EE, and TOU programs
- **EV adoption, DER proliferation and Beneficial Electrification initiatives**



Industry Leader



Market leading DR solutions

250+ Utilities



DR customers in NA

6.5+ Million DR



Devices deployed and supported

6 GW+ Load



DR enables controllable loads

30+ Years in DR



Proven track record in this segment

EATON

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Distribution Automation

Integrated solutions - smart sensors, controllers and automation software - to improve situation awareness, system reliability and power quality.

Features:

- DA software includes Feeder Automation (FA) and Volt/VAR Management (VVM) automation applications that are easy to install and administer
- FA performs FLISR automation and is operating more than 20,000 automated switches worldwide
- VVM controls capacitors, tap changers and voltage regulators for optimum voltage profile and power quality
- Capacitor Bank Controller (CBC) is a robust solution that includes all control algorithms and sensing capability
- GridAdvisor Smart Sensor is a clamp-on communicating device that records line current, reports fault location and duration in both overhead and underground wires.

What's new:

- **CBC-8000 FW v4.1**
 - Security enhancements
 - New Ethernet card version
- **GridAdvisor FW X.9**
 - Measurement data improvements
 - Improved logging
- **YFA v3.3R1**
 - Global Visual T&D site
 - RTM Browser UI



Vendor Agnostic



Compatible with any manufacturer

Flexible communication



Standards based communication and protocols support

20 Years Experience



Trusted Reliability and Power Quality Advisor

Breadth of Expertise



Switchgear, Capacitors, Regulators, Distribution Planning



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Substation automation

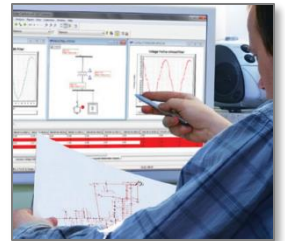
Integrated solution – from automation platforms to enterprise software - to remotely monitor, control and manage substation's assets.

Features:

- SMP Gateway automation platforms combines all the functions required by modern substation automation systems including data concentration, protocol translation, logic processing and much more, in a single powerful package.
- SMP I/O products act as an intelligent distributed RTU, digitalizing hardwired signal to monitor and control field assets.
- IED Manager Suite (IMS) software helps utilities manage configuration settings, passwords and firmware of the intelligent electronic devices (IEDs), improving cyber-security posture and NERC/CIP compliancy.
- Visual T&D HMI Software provides cost-effective and secure control, data visualization and alarm management capabilities for utility automation systems.

What's new:

- **GE D20 RTU retrofit solution with SMP IO-2330 avoids recabling every I/O.**
- **SMP Gateway version 8.2 adds a new device configuration wizard, has an improved CodeSys integration and adds the OPC UA protocol.**
- **IMS version 7.7 adds several workflow improvement and support for new devices (Beckwith, Bitronics 70 series, Hirschmann, latest SEL IED)**
- **Upcoming SMP DA-3050, new grid edge SMP platform will help distribution utilities increase their situational awareness and implement DER assets control.**



Vendor
Agnostic



Compatible with any
manufacturer

Leading SMP
Player



Holds substantial
market share

30,000+
Devices



SMP gateways
installed globally

80+
Protocols



Standards & protocols
compliant

25+ Years
Experience



Serving utilities with
SMP Gateway



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Brightlayer Utilities suite

Using our digital suite, utilities can optimize their operation to integrate more distributed energy resources while improving reliability and customer satisfaction.

We help utilities:



Become more resilient

- Model the grid accurately
- Reduce outage downtime
- Detect grid failures sooner



Drive performance

- Comply with regulations
- Automate grid intelligence
- Prioritize investments



Accelerate decarbonization

- Anticipate DER impact
- Coordinate DER operation
- Manage demand better



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[Eaton.com/WhatMatters](https://www.eaton.com/WhatMatters)