Smart Facilities solutions
We help our customers create future-ready pharmaceutical manufacturing and biotech facilities.

POWER SAFETY & AVAILABILITY

Confidential Property of Schneider Electric
Smart Facilities
Safer and more available environment

Building Management
Provide the best conditions for your manufacturing operations

Environmental Control
Make sure your production environment comply with requirements and regulations

Asset Performance Management
The most comprehensive solution for a maximum economic return of your assets

Server Rooms management
Provide self contained and secure computing environment for your on-premise applications

Power Safety & Availability
Standardization, site assessment, and predictive maintenance for Electrical Distribution
Power Safety & Availability (1/3)

Standardization, site assessment, and predictive maintenance for Electrical Distribution

Power availability is critical in an industrial process or in precision environments.

A downtime in power supply could make you lose millions of euros.

We secure power and ensure the optimization, quality, availability of the electrical energy supply.
Power Safety & Availability (2/3)

Standardization, site assessment, and predictive maintenance for Electrical Distribution

The Solutions:

• Our EcoStruxure Power solutions deliver safe, highly available, and energy-efficient electrical distribution systems for low and medium-voltage architectures.

Ecostruxure™ Power Distribution
Ecostruxure Cybersecurity Admin Expert
Medium Voltage Solutions
Low Voltage Solutions
MasterPact MTZ circuit breakers
EcoStruxure Asset Advisor
Power Safety & Availability (3/3)

Standardization, site assessment, and predictive maintenance for Electrical Distribution

The Benefits

- Up to 10% reduction in maintenance costs
- Up to 10% reduction in energy spending
- Up to 15% reduction in project costs

Learn more
Pharmacia Corp., USA

New Power management system saves time & cuts costs

Customer Challenge
• Move from manual energy data collection (125 meters taking 2 days) to an automated method
• Maintain and refer to accurate historical data for demand and supply considerations
• Reduce time and improve accuracy of data collected

The Solution
• EcoStruxure Power Monitoring Expert

Customer Benefits
• Reduce time (2 days to 3 hours) and error on data collection
• Accurate in peak demand, improving transformer loading up to 35% and determine space capacity
• Potential savings made by avoiding and minimizing downtime and losses from outage (typical $100k per hour to $23m per day)

The Results: Life is On with... Savings of $2M in new equipment costs by balancing loads and identifying spare capacity

“Our goal is to keep it simple – simple gets results. Nothing magical, just common sense, and consistency”.
Jim Vyuerberg, Plant Engineer, Pharmacia Corporation

Pharmaceutical & Biotechnology company

Link to Paper
Customer Challenge
• Drug production requires a continuous power supply, otherwise millions of dollars in damage will be caused
• Consolidated and digital overview of the entire medium and low-voltage network

The Solution
• EcoStruxure Power
• EcoStruxure Power Monitoring Expert

Customer Benefits
• Digitization of low and medium voltage levels
• Remote monitoring and alerting in real time for any deviations
• Energy management software for real-time analysis
• Retrofitting of existing systems also possible on site

The Results: Life is On with...
30-35% savings in the operation and maintenance of the installations

“To prevent a power outage, we have completely digitized our power supply with EcoStruxure Power from Schneider Electric. This saves us time and money on the maintenance and operation of our installations amounting to around 30 to 35%.”

Roland Francey
Head of power supply installations
UCB Farchim

Annual production of around 2 billion pills against serious diseases such as epilepsy or rheumatoid arthritis
Customer Challenge
- Ensure manufacturing processes is flexible to handle new machinery and equipment
- Difficulty and inaccuracy in determining peak load of a given circuit for spare capability availability
- If no spare the challenge to add new bus duct increases ceiling space, expand building or re-engineer the plant

The Solution
- EcoStruxure Power Management software (PowerLogicD System Manager)
- PowerLogic advanced power meters

Customer Benefits
- Full view of system loading enabling spare capacity for new production
- Cost saving by avoiding new equipment purchase
- Monitoring power quality at site due to harmonics and power factor
- Time saved in generating manual reports by accessing real-time power system information

The Results: Life is On with... $2,000,000 in savings in equipment and installation costs

“The system also allows us to learn more about harmonics and power factor that can help us save on our power bill”.

Don Haney, Master Electrician, Smith & Nephew
Customer Challenges

• Achieve a reliable and secure power supply (uninterrupted power supply is crucial for the facility)
• Ensure safety for the staff and secure operation of the facility
• Energy management providing actionable, early insight into abnormal operating conditions across the plant

Solution

• Energy Monitoring System – EcoStruxure™ Power SCADA Expert v.8.2 with advanced reporting
• Trihal cast resin distribution transformer
• SM6 switchgear
• Prisma type tested low voltage switchboard
• Varset smart low voltage capacitor bank
• Canalis busbar trunking system

Customer Benefits

• High quality of power supply and significant energy savings through continuous real-time energy monitoring and control
• Instantaneous coordination, discrimination and communication between the protection devices.
• Early diagnostics and actionable insights on installed equipment health to maximize uptime and boost performance
• Smart monitoring and control of LV and MV switchgear
• Technical support and assistance at any time
• Complete solution from one supplier

The Results: Life Is On with...
Reliable and energy efficient power with real-time monitoring and control

A new fermentation plant for production of pharmaceutical products and nutritional feed additives with 12 sites (total floor area over 25 000 m²)

EcoStruxure™ For Life Sciences

Apps, Analytics, & Services

Connected Products

Webpage
Customer Challenges
• New technologies facilities incorporation to improve
• Energy management & power quality
• Maintenance costs optimization
• Integration of systems from other suppliers
• Needed a solution/Support that help in better decision making and to communicate to stakeholders

Solution
• EcoStruxure™ Power Monitoring Expert
• EcoStruxure™ Resource Advisor
• EcoStruxure™ Power Advisor
• Micrologic, Power meters, Gateways
• On Site Support ½ Year

Customer Benefits
• More efficient use of resources and improved financial performance
• Increased capability for lab research with consistent power
• Growth in Energy management transparency and focus

The Results: Life Is On with...continuous healthy power supply 24x7

"With the new research building in Vienna we wanted to set standards. I am responsible for ensuring that all facility devices interact perfectly in every season and the labs are perfectly ventilated and tempered 24 hours a day. Above all these requirements, the premise is to focus on energy costs and to constantly improve the current system. Schneider Electric technology helps us get the complexity of the digital world under control and save energy and resources."

Alexander Chlup, Head of Facility Management, VIENNA