

## A CONTROL SOLUTION THAT MEETS YOUR APPLICATION REQUIREMENTS

Why Experion® LX is the Right Choice for Different Process Industries?





# What's Needed in a Distributed Control System?

In the process industries, automation applications come in many different sizes and levels of complexity. Plants need a control system that is scalable; intuitive to use; and easy to install, support and maintain.





Unlike a traditional Distributed Control System (DCS), the latest generation of DCS can be purpose-fit to a facility's unique requirements. These new age DCS systems are based on modular architecture and provides advanced process control and real-time data connectivity between the plant floor and the enterprise, optimizing the startup and maintenance costs.

**KEY FEATURES OF A NEW AGE DCS SYSTEM:**

- Modular system architecture to match the end user's exact specifications
- Open, information-enabled, and secure automation platform
- Powerful control functionality tailored to specific industry demands
- Flexibility in delivery, support, maintenance, and migration

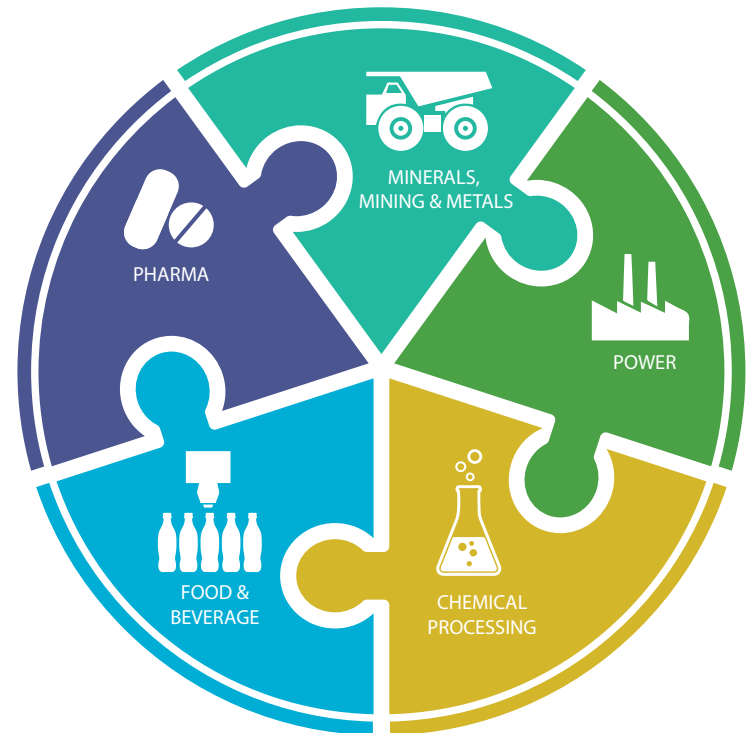
## EXPERION® LX: A DCS THAT'S RIGHT FOR YOU

Companies in the Biopharmaceutical, Mining and Minerals, Food and Beverage, Specialty Chemicals, and Power Generation industries, among others, can now realize the performance advantages of a true DCS.

Honeywell offers Experion® LX for differently sized facilities throughout the process industries. With this flexible control system, various tools and functions aimed at optimizing plant operations are available in the context of specific application requirements.

### ALL THE ADVANTAGES YOU NEED

- Increase operational uptime
- Improve plant reliability
- Optimize process efficiency
- Enable flexible performance
- Improve operator effectiveness
- Integrate third-party solutions
- Lower total ownership costs
- Ease expansions and future upgrades





**“We have reduced the time of system programming & site test by 20% and the cost for system manufacturing by 15%, increasing our revenues by about 10%”**

*Engineering Mgr. LG Life Sciences Ltd., South Korea*

## IMPROVING AGILITY IN BIOPHARMACEUTICALS

To stay competitive, pharmaceutical and biotech firms must consistently manufacture high-quality products on time and within licensed processes. Laboratory findings must be transferred as quickly as possible to the production environment, and plants need the flexibility to keep pace with dynamic market conditions.

Leveraging decades of Honeywell process control expertise, Experion LX enables biopharmaceutical companies to implement true DCS capabilities without the typical implementation and overhead requirements.

### FLEXIBLE CONTROL FUNCTIONALITY

- S88-compliant batch system runs entirely on Honeywell's redundant C300 controller – provides faster cycle time and more reliable operation compared to a traditional server-based systems
- Class-based recipes enable reuse of recipes – lowers the cost of recipe engineering, maintenance, and testing
- Comprehensive set of SCADA capabilities, including equipment-based configuration, dramatically reduces engineering effort
- Standard control points and operator graphics for improved usability and fewer incidents with better operator accuracy

**Read more:**

[Experion LX for Pharmaceutical and Biotech Applications](#)





**“Due to the stability and reliability of the Honeywell DCS, unplanned shutdowns are a thing of the past...”**

*Vice Chief Engineering  
Director, Yichun Luming  
Mining Co., Ltd., China*

**Read more:**

[Experion LX for Mining and Minerals Applications](#)

## OPTIMIZING PERFORMANCE IN MINING AND MINERALS

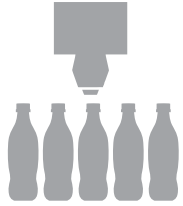
Mining and minerals production presents greater demands than ever before. Operators deal with harsh climates, remote sites, rising energy costs and water scarcity. They need a solution allowing effective interaction of assets during extraction, transportation and beneficiation.

Based on Honeywell's best-in-class Experion PKS platform, Experion LX provides mining operations with the benefits of a robust and secure DCS that won't break their capital budget.

### VERSATILE AUTOMATION CAPABILITIES

- Meets the unique requirements of mining and mineral facilities with a scalable DCS, while providing various system functions and applications aimed at optimizing performance
- Tightly integrated DCS and SCADA – no extra hardware costs for integrating SCADA functions or third-party systems
- Distributed System Architecture (DSA) for centralized or remote control of geographically separated areas of production – no additional equipment to connect multiple control systems
- Native CDA integration with Honeywell OneWireless™ provides key benefits – lower total cost of ownership, reduced engineering effort, efficient asset monitoring, and easier access for maintenance





**Built-in Profit® Loop control increase up to 30% process stability. This flexible DCS boosts the performance of plant operations by enabling improvements to reliability, safety and efficiency.**

**Read more:**

[Experion LX for Food & Beverage Applications](#)

## ENHANCING PRODUCTION IN FOOD AND BEVERAGE

The food and beverage industry has its own special challenges. There is a sustained focus on cost reduction, the ability to accommodate future growth, flexible production strategies, and operational efficiency – especially considering the use of disparate systems.

Experience has shown Experion LX helps food and beverage producers cope with processes that are dynamic and energy-intensive, while ensuring the best performance, quality, reliability and delivery.

### ADVANCED AND RELIABLE TECHNOLOGY

- Scalable control platform that allows starting with simpler and faster startup
- Consistent control strategies, graphics and batch environment – allows for growth in capacity and the use of value-added features
- Profit® Loop algorithm enables optimal control of processes – predicts effects of control moves on PVs and anticipates future changes
- Procedural Operations solution delivers automated procedures and operations for all steps of production independent of disparate control hardware – helps capture the knowledge of expert operators
- SmartLine field instruments help facilities to get more from their smart devices – improves reliability, safety and the bottom line





## INCREASING EFFICIENCY IN SPECIALTY CHEMICALS

The specialty chemicals market is fast paced and growing. It requires that manufacturers always deliver the right product, on schedule, as well as take advantage of opportunities for new products and minimize manufacturing costs.

**“The System Integrator & Honeywell engineers offered strong engineering capabilities and rich industry experience; they provided professional support and services throughout the entire project which ensured smooth implementation”**

*Director of Instrumentation,  
Tiang Hong Chemical  
Company, China*

Honeywell provides Experion LX to optimize the various critical aspects of batch production in specialty chemical plants. In fact, eight of the top 10 specialty chemical companies use Honeywell systems and solutions.

### UNSURPASSED SOLUTIONS KNOW-HOW

- Robust automation of equipment procedures – integrates best practices for batch turnarounds, catalyst regeneration, filter change-out and system startup/shutdowns
- Advanced batch solution is inherent to the control environment – seamlessly interoperates with functions like alarming, history, mobile tools, real-time visualization of batch sequences, an operator displays
- Seamless MES/ERP integration – supports faster time to market and change management through system flexibility
- Integration of weighing terminals through specialized interface function blocks – tightens material transfer control, decreases batch cycle time and improves production quality

**Read more:**

[Experion LX for Specialty Chemicals Applications](#)





**Power plants improve control performance and reduce engineering effort by 10% using built-in function blocks, also reducing the maintenance efforts by up to 30%**

**Read more:**

[Experion LX for Power Generation Applications](#)

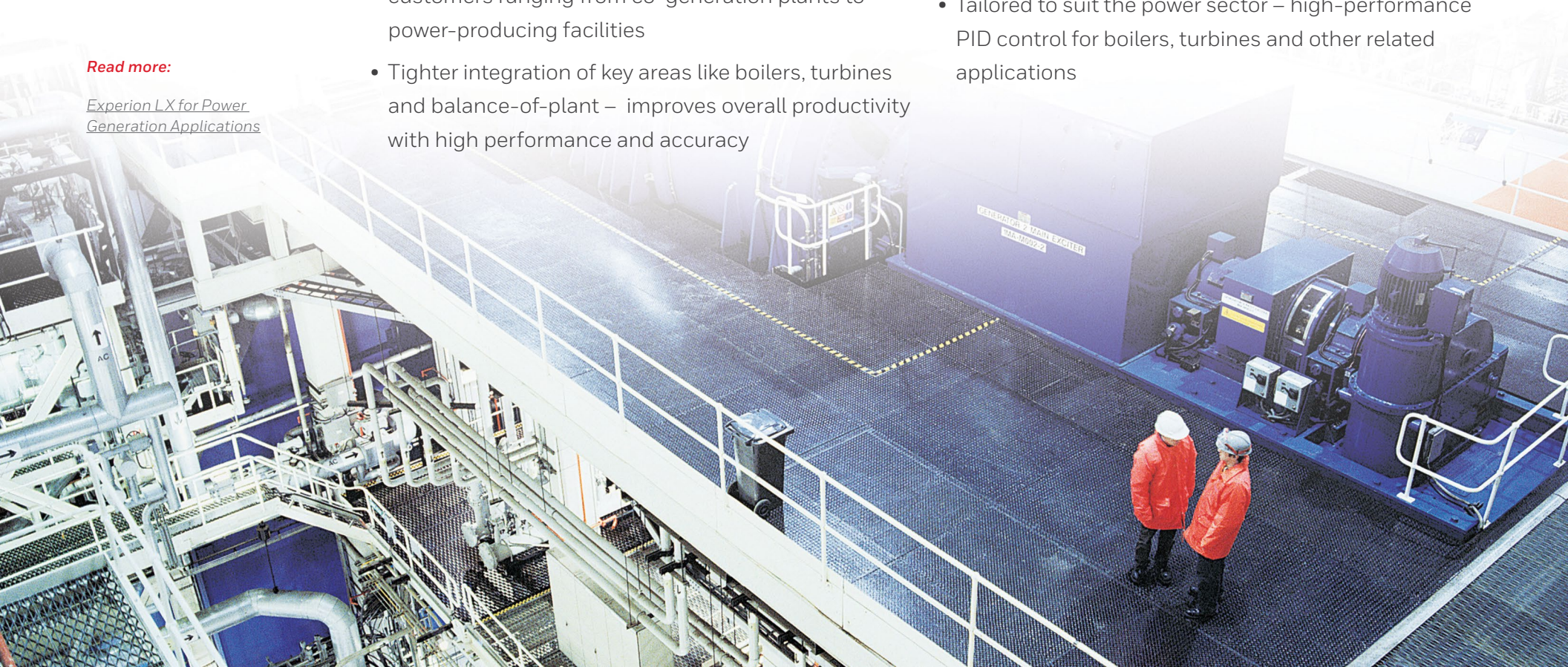
## ENSURING RELIABILITY IN POWER GENERATION

Due to increased global competition and concern with environmental stewardship and safety, electric utilities – particularly those relying on fossil fuels – must excel at operational flexibility, unit performance and fiscal responsibility.

With Experion LX, power generation facilities can meet their most important challenges – both in operations and regulatory compliance – while achieving a sustainable performance advantage.

### PROVEN DOMAIN EXPERTISE

- Flexible and cost-effective automation system for customers ranging from co-generation plants to power-producing facilities
- Tighter integration of key areas like boilers, turbines and balance-of-plant – improves overall productivity with high performance and accuracy
- Unique solution integrating continuous process control with the electrical control area
- Tailored to suit the power sector – high-performance PID control for boilers, turbines and other related applications



**“We want to be the Best in the industry. In Honeywell we found a partner and the products that helped us achieve our goals.”**

*Director of Instrumentation  
- Tiang Hong Chemical  
Company, China*

## Rely on Honeywell

Around the world, Honeywell's control systems are employed in the most demanding industrial applications to improve process safety, reliability and efficiency. You can rely on our proven, advanced DCS technology to improve your operational and business performance.

## Discover a **Perfect Fit** Control System



## **Experion LX**

Proven. Purpose-Built. Easy-to-Use.

### For More Information

To learn more, visit the [Experion LX](#) webpage or contact your Honeywell account manager in your region, or write to us at [hpsmarketing@honeywell.com](mailto:hpsmarketing@honeywell.com).

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