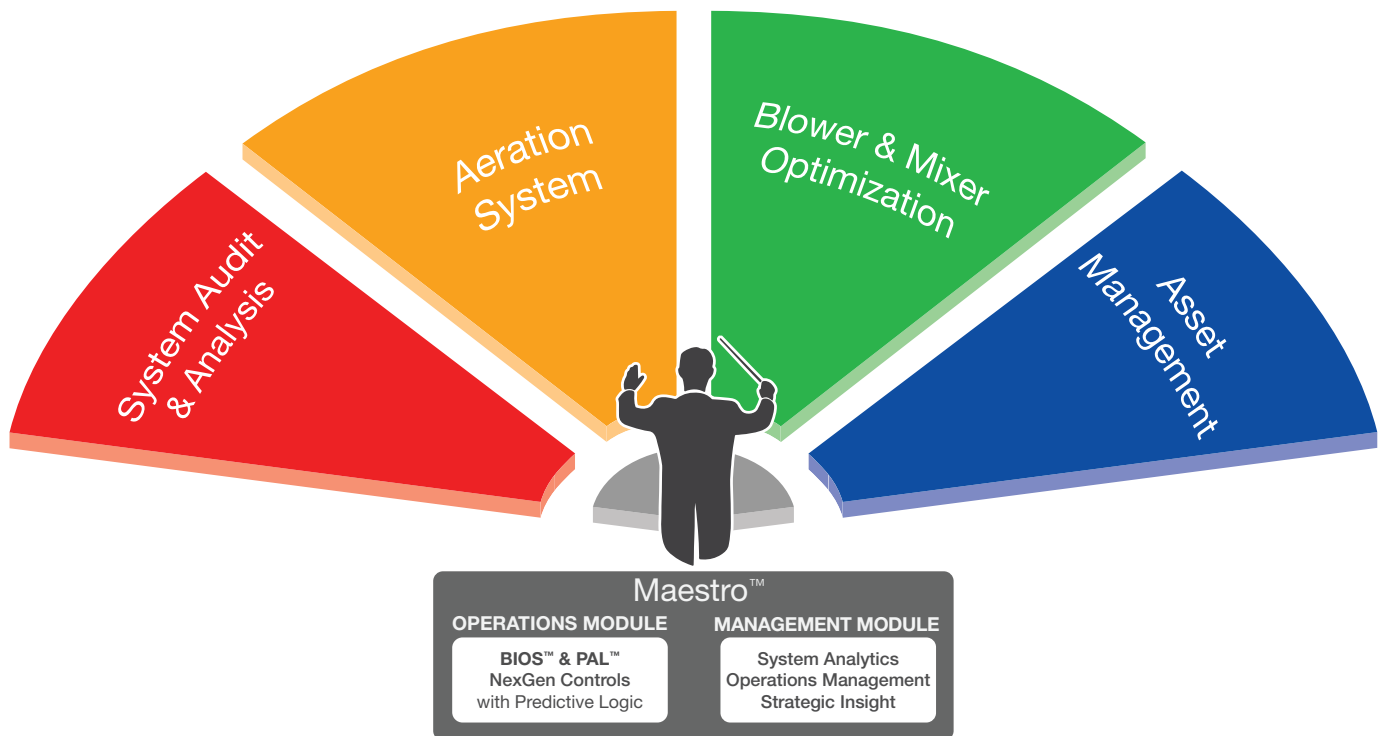


Symphony[®]

Operating Management System
for Biological Processes

Symphony is a suite of technologies: NexGen controls, equipment, and services to optimize biological performance and deliver lowest-cost plant operation.





Utility Management

Symphony empowers management to do more with less and step beyond compliance.



staff utilization

Free-up Staff for Human-Critical Functions

Autonomously manage critical high-frequency variables in real-time. No tuning or calibration burdens.



capital utilization

Eliminate Non-Value-Added Activities

Use current resources for best value and mitigate rising costs through business-based analytics. Your savings support critical initiatives that have historically been out of reach.



sustainability

Manage Effluent Quality

Reduce greenhouse gas emissions, total power use, and tackle nutrient trading mandates.



future planning

Data-Based Insights

'Plant specific' data provides accurate process and equipment capacity and expansion analyses.



achieve business objectives

Improve Rate-Payer Value as an Aggregate Outcome

- Up to 50% reduction in energy use
- Up to 25% improvement in effluent quality
- Extend plant and equipment life



demand-side management

Manage Electric Power Use

Consider power supply metrics to reduce operating costs and mitigate supply limits.



support utility objectives

Best Management Practices (BMP)

Dial in performance for energy, watershed, reuse, and permitting objectives, and develop an effective management roadmap for your utility.



Operations Partner

Symphony isn't another tool that sits in your toolbox; it's your partner to help operate and maintain the plant 24/7.

- **Continuously monitor plant performance.**
- **Project future events to meet your goals.**
- **Develop real-time operational protocols.**
- **Set user preferences with failsafes and overrides.**



asset management

Consultation and Parts & Services for All Brands

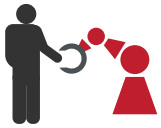
Global aftermarket division supports all plants and equipment. This accumulated know-how and capability keeps your plant operating in peak order and performing to the needs of the business.



peace of mind

Full Operator Confidence

Instrument diagnostics and multi-layered network of failsafes and 'user set' overrides provide operational confidence for anticipated and unanticipated events.



productivity growth

Harmonized Human, Machine, and Virtual Assets

Gaps between humans, controls, and machine are eliminated. Now operators and management can focus on mission critical functions.



user experience

On-Site Training & Virtual Programs and Tools

Interface and dashboards that are intuitive. User support programs ensure high user fluency



reliability-centered maintenance

Smart Analytics Pace Maintenance to Business Objectives

Strategies are specific and calibrated. Instruments and machines meet the Utility's business objectives within their present operating context.



Intelligent Design

Uses 'learned-knowledge' for new 'bests' in performance, energy use, and return on invested capital.



real-time process optimization

Dynamic Setpoints Enable Best Performance

Proactive management of biomass, oxygen, and chemical balances help ensure more stable and increased treatment performance, enhanced nutrient control, and lowest possible energy use.

O₂

lowest total aeration cost

High Precision, Accuracy, and Automation Efficiency

Tight control eliminates under and over aeration and control system losses. That saves energy and extends control component and blower service life.



equipment optimization

Application-Based Equipment Sizing

The selection and sizing of equipment - including aeration, blowers, mixers, pumps, and chemical feed—reflect true min/max requirements and field performance factors.



design optimization

Right-Sized Process Units

With accurate capacity evaluations and designs; process reactors and equipment are appropriately sized for the full dynamic range of operating and capacity objectives.



system compatibility

Open-Interface Architecture

Overlay design supports existing I&C and SCADA infrastructure to maintain enterprise system functionality.



40 Years of Biological Process Experience

Environmental Dynamics International
Global Headquarters
5601 Paris Road
Columbia, MO 65202

+1 573.474.9456
www.environmentaldynamics.com



Symphony®

www.symphony-water.com