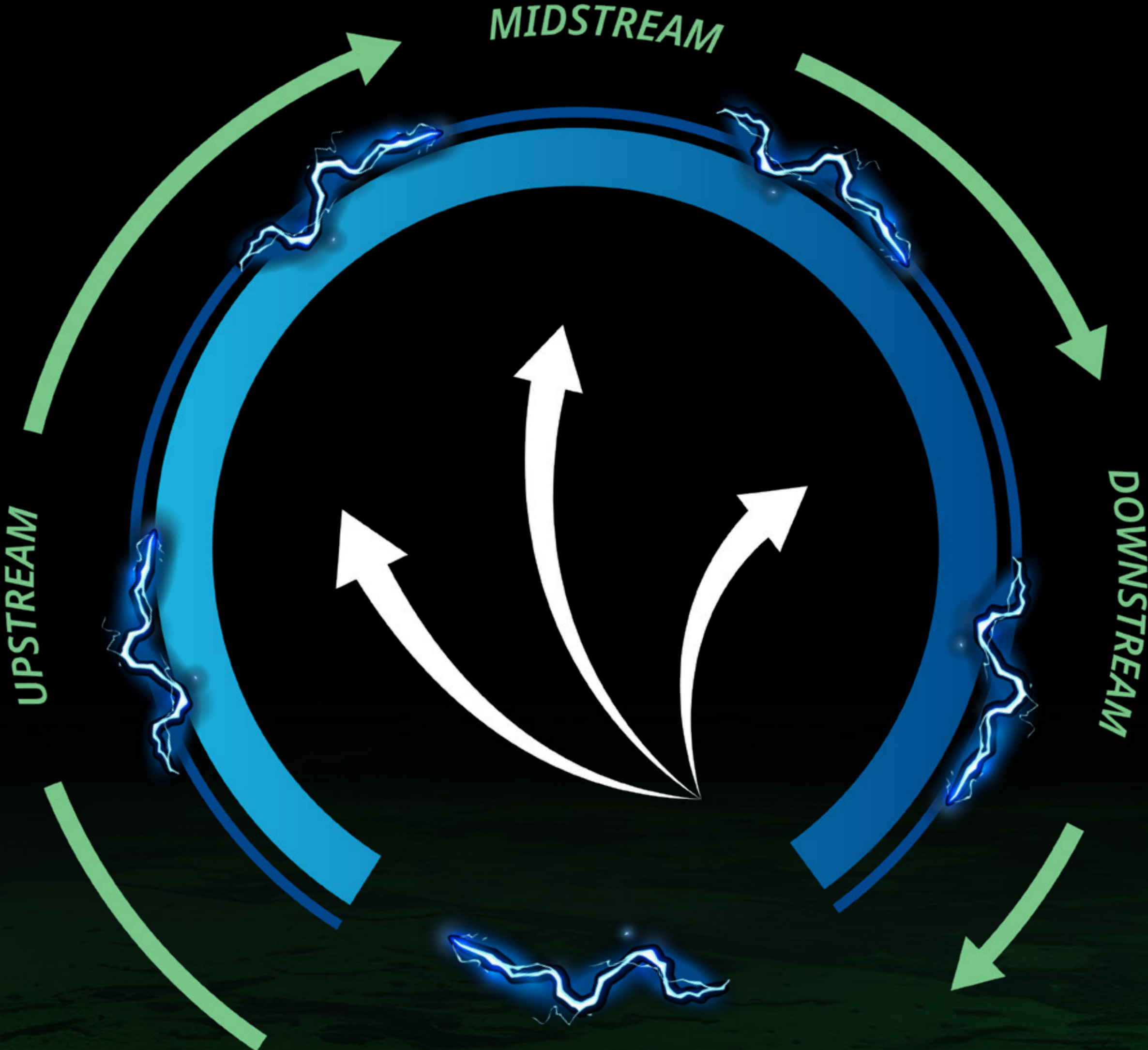


# DeltaV™ Automation Solutions

Optimizing the Lithium Supply Chain—From the Mine to the Gigafactory



# DeltaV™ Automation Solutions

## Optimizing the Lithium Supply Chain—From the Mine to the Gigafactory

### Streamline Your Journey to Commercialized Production with the Right Automation Partner

Throughout the lithium battery value chain, producers face extreme challenges, complexities, and risks in their capital projects, which are only increased with pressures to achieve accelerated speed to market.

Emerson industry experts and a proven automation platform deliver tailored experiences and solutions that help ensure a seamless, integrated approach to achieving speed to market. What's more, Emerson has worked alongside top lithium and specialty chemical producers across the globe—from concept to evaluation to commercialized production—helping them to navigate and overcome extreme challenges, reduce complexity, and minimize costs and risks.

### DeltaV Distributed Control System: Achieve End-to-End Optimization with Modern, Future-Proof DeltaV™ Automation Solutions

Emerson's DeltaV Distributed Control System (DCS) and Safety Instrumented Systems (SIS) offer end-to-end optimization across the entire supply chain and operations. DeltaV is a proven-reliable, future-proof automation solution that ensures tight control and monitoring at every stage, improving efficiency, product quality, security, and safety. By integrating advanced analytics and real-time data, DeltaV empowers customers to make more informed decisions, reduces risks, and enhances overall productivity—all while offering a seamless, flexible, and scalable solution that easily adapts and grows—helping customers to meet business needs now—and in the future.

Regardless of where you are in the process, where you are in the world, or how big or small your project is, Emerson and our DeltaV automation solutions can support your unique project and application needs.





## Lithium Extraction

### Brine

From pilot to production, and as technology advances, DeltaV provides precise control over critical parameters and scales seamlessly, ensuring efficient, safe, and consistent operations.

### Traditional Mining

Ensure safe operations while improving yield, reducing energy consumption and costs, and increasing reliability and performance.



## Lithium Processing

DeltaV systems are used in specialty chemical plants globally, including lithium processing, helping them ensure tight control and flexibility to deliver the high-quality products required—regardless of feedstock and end-use specifications.



## Precursor & Active Battery Materials

### Precursor Materials

DeltaV can tightly control multi-input/multi-output processes, helping to maximize yield and minimize scrap.

### Cathode & Anode Active Materials

Easily integrate diverse equipment, eliminate islands of automation, and drive consistent operations.



## Battery Manufacturing

Easily configure recipes and ensure traceability to help deliver high-quality products and compliance, while seamlessly integrating with downstream battery production lines.



## Battery Recycling

Regardless of feedstock, application, or level of processing required, DeltaV helps ensure speed to production while minimizing project costs and risks.