

Global specialty
chemicals company
founded
1887

**Leading
producer of**
lithium, bromine,
and refining catalysts

25+
Production and
R&D Facilities

Approximately
5,900
employees serving
2,300
customers
worldwide



Challenge

- Expand in highly competitive global markets, especially lithium for batteries in electronic vehicles and consumer electronics
- Increase utilization and performance of key production units to address surging global demand
- Help management and operations staff identify and drive OEE improvement opportunities
- Deploy a common digital solution across all sites



Solution

- ✓ Plant Process Management with Shiftconnector io. Performance
- ✓ Live access to automation data streams from the Process Historian
- ✓ End-to-end cloud deployment
- ✓ Common tools for production loss accounting for diverse batch and continuous operations across all global production facilities
- ✓ OEE dashboards that visualize KPIs at plant, site and business unit levels to provide management with real-time insights
- ✓ User experience fully customized for local plant operations (i.e., process, language, and regulatory)
- ✓ Tracking target vs. actual production, scheduled vs. unschedule downtime, and on-spec vs. off-spec product



Business Value

- Increased asset utilization through reduced downtime and equipment failures
- Streamlined production bottlenecks results in increased production and yields
- Significant catalyst for improving production efficiencies and reducing costs
- Standard and consistent process for classifying disruptions and corrective actions
- Engages all production staff in continuous improvement process
- Lower TCO with cloud-based, „turn-key“ solution

Shiftconnector provides a common framework for continuous improvement of Albemarle's manufacturing execution processes at our production sites worldwide. Shiftconnector helps increase operation discipline through a set of digital playbooks, best practices, and KPIs - including OEE - and is a key component of our journey to manufacturing excellence.

Neville Lockwood, Director Operational Excellence, Albemarle Corporation

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