

**CLARITY™ Prime: AI-powered tool optimizing C2TE converter performance**

The chemical industry is actively seeking to increase AI-enabled capabilities to improve operational excellence and profitability. This presentation demonstrates how AI can be used to improve acetylene converter performance through early detection of process deviations, minimized off-spec events, and reduced operational losses. The solution uses a data-driven approach, combined with performance tracking and virtual hydrogen analysis. This ensures optimal catalyst utilization, enhanced stability, and longer operational cycles, delivering tangible value to C2TE operations.