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## **Adapting to age: Upgrading Coke Oven Machines for sustainable plant longevity**

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In today's rapidly evolving industrial landscape, coke oven plant operators are increasingly confronted with the pressing challenge of managing aging equipment. As many coke oven batteries, machines, and associated equipment near the end of their operational lifespan, operators face the risk of unscheduled production interruptions, increased emissions, and elevated health and safety concerns for workers.

This paper aims to illuminate the path forward by showcasing a selection of recent projects that have successfully tackled a few of these challenges. We will explore cutting-edge technologies and innovative design enhancements that are transforming coke oven machines and their ancillary equipment. Moreover, we will introduce advanced tools that empower plant operators with real-time data and insights, enabling them to proactively extend the longevity of their equipment and optimize operations.

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