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Clariant launches AI-powered operational solution to optimize fertilizer industry

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Clariant, a sustainability-focused specialty chemical company, announced the release of CLARITY Prime, an advanced digital service for syngas plants, an upgrade of its cloud-based service portal CLARITY. The upgraded solution leverage automated catalyst health alerts and machine-learning-based performance projecting tools, combined with advanced technical support to improve the operation of Clariant catalysts.

Lorena Oviol, Head of Applied Catalyst Technology at Clariant, commented, â?³CLARITY Prime is available for ammonia, methanol, and hydrogen producers and enables forecasting of catalyst performance by combining actual data with predictive scenarios. This allows informed decision-making to improve catalyst operations based on desired timelines and economic considerations. Our advanced tools and services promise to give customers the edge they need in todayâ??s competitive markets.â?³

Indorama Eleme Fertilizer & Chemicals, a subsidiary of the Indorama Corporation, operates the worldâ??s largest single-train ammonia plant in Nigeria and is the largest fertilizer producer in Sub-Saharan Africa. Deepu Sivadas, Chief Technical Officer & Director at Indorama Eleme Fertilizer & Chemicals, added, â?³Our plants are based on state-of-the-art technology, and we believe that digital solutions play a key role in supporting our plant teams to continuously optimize our operation. The initial implementation of CLARITY at our plant was a perfect match for our digitalization strategy as it enhanced the collaboration with Clariantâ??s catalyst experts. We are excited about the new capabilities of the CLARITY Prime services and with our expertise in safe and efficient operations, we will collaborate and contribute to even further enhancing this digital service to provide a powerful tool for future users.â?³

CLARITY Prime is a cutting-edge software solution combining enhanced customer support and advanced technology. The platformâ??s â?³Catalyst Health Alertingâ?³ service comprises numerous algorithms that continuously scan for deviations related to catalyst operation and automatically notify customers with guidance and mitigation solutions. Another important feature is the â?³Catalyst Performance Projection Tool,â?³ which uses machine learning to analyze current and historical operating data and catalyst activity to predict future performance. The interactive tool can be used to evaluate multiple â?³what ifâ?³ scenarios and/or identify risks and optimization potentials. Through the platformâ??s superior service,

customers receive dedicated and comprehensive expert support, reviews, and catalyst performance evaluations. CLARITY Prime is available for any plant using Clariantâ??s ammonia, methanol, or hydrogen plant catalysts, independent of process technology.