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AI boosts EuroChem output as fertiliser giant expands digital operations

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EuroChem has reported that its ongoing digital transformation strategy, driven largely by artificial intelligence (AI) applications across its industrial operations, has delivered economic benefits exceeding 4 billion rubles (approximately $50.8 million), underscoring the growing role of advanced analytics in modern fertiliser production.

The results were presented at the CIPR-2026 conference during a session focused on the expanding integration of AI in heavy industry. The discussion brought together representatives from major Russian industrial companies, including Severstal, SIBUR, Norilsk Nickel, and CROC, highlighting broader sector-wide adoption of digital technologies.

According to EuroChemâ??s Deputy General Director for Operations, the companyâ??s strategy prioritizes digital initiatives that produce measurable operational outcomes, enabling faster adoption of AI tools across production systems. This approach has helped accelerate internal acceptance of AI-based decision-support systems in core manufacturing processes.

EuroChem has completed more than 60 AI-related projects to date and is currently developing around 50 additional initiatives, reflecting a sustained pipeline of digital innovation across its production network.

A central focus of the companyâ??s digitalisation efforts has been the deployment of AI-powered recommender systems in production management. These systems analyze real-time equipment data and operational parameters to suggest optimal production settings, with the aim of improving efficiency, reducing waste, and enhancing overall output stability.

The company reported that these recommendation systems have been implemented across all of its ammonia production facilities in Russia. As a result, EuroChem has achieved an average 2 percent increase in productivity and a 1 percent reduction in natural gas consumption per unit of output, indicating tangible efficiency gains in energy-intensive fertiliser production.

EuroChem emphasized that its broader digital strategy is not based on isolated applications, but rather on the integration of AI tools into a unified operational framework. This approach is intended to embed artificial intelligence as a core component of industrial production systems, alongside traditional enterprise software infrastructure.

Looking ahead, the company expects AI to become a standard feature of industrial operations across the sector, with further integration likely to support ongoing efficiency improvements and cost optimization in fertiliser manufacturing.

The announcement reflects a wider trend in the global fertiliser industry, where producers are increasingly adopting AI and advanced analytics to manage energy costs, optimize chemical processes, and improve competitiveness in volatile commodity markets.