

CORTEX™

CEMENT KILN NOx SAVINGS

Optimization

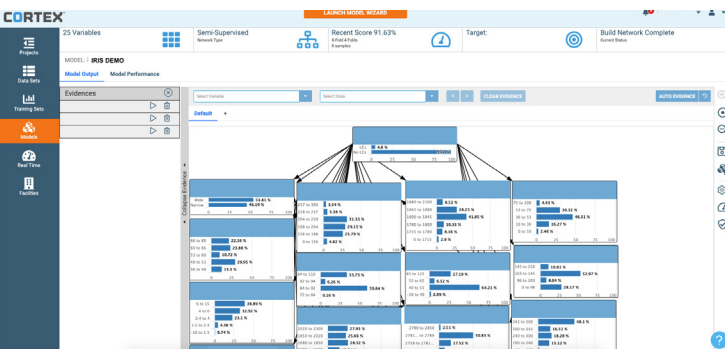


INITIAL USE CASE

EFT partnered with a leading company in the cement industry to apply CORTEX™ Advanced Analytics software. The objective was to decrease the amount of reducing agent required to chemically treat NOx at one of their sites, while also maintaining or improving their already low NOx emissions. The facility provided EFT with process data, product and feedstock chemistry data, and process documentation. EFT performed data preparation, enrichment steps, and model development using CORTEX.

SOLUTION

Leveraging CORTEX, EFT was able to analyze the facility's historical data and provide operating recommendations to minimize combustion NOx created in the process, without sacrificing energy efficiency or product quality. The models developed were reviewed with the facility's process experts to validate the model performance, improve the models and results, and develop recommendations for process operation to decrease reducing agent consumption. By following the recommendations, EFT estimates this site will net significant savings from a more than 20% decrease in reducing agent required.



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