

Named DX Stock 2020

JFE Holdings, which is proactively pursuing strategic investment in information technology to strengthen the Group's overall competitiveness and increase corporate value over the medium to long term, has been designated for inclusion in the Competitive IT Strategy Company Stock Selection by the Ministry of Economy, Trade and Industry (METI) and the Tokyo Stock Exchange (TSE). In 2020, the Company was selected for the sixth consecutive year, with the designation renamed the Digital Transformation (DX) Stock Selection.

DX Stock Selection indicates a focus on digital transformation to achieve new growth and enhanced competitiveness through drastic reforms of the business model based on digital technologies. JFE Holdings will continue to proactively pursue the digital transformation that has been recognized to date.



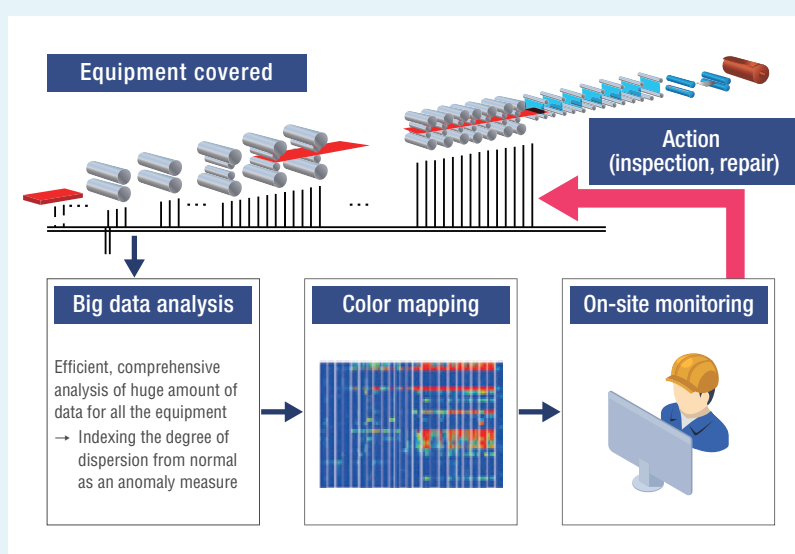
DX initiatives

Steel Business

Using big data and AI to monitor signs of equipment anomaly

Because much of the equipment used by the Steel Business operates for a long time, unanticipated problems not seen in the past are increasingly occurring, raising the issue of building a system to monitor signs of such anomalies.

As this equipment is made up of many diverse pieces of machinery and meters, the number of items to be monitored is huge, totaling more than several hundred, but we have efficiently and comprehensively analyzed the relationships among these items and mapped the degree of anomalies over time to easily monitor equipment at manufacturing sites. By making repairs and taking other appropriate measures for parts that cause heightened concern about becoming an anomaly, we can prevent anomalies from occurring and raise the operational efficiency of our equipment.



Engineering Business

“Ni-na-u” in a new age through application of technologies and expertise, data, and the latest IT

Distribution service for river-level forecast information

Using the WinmuSe artificial intelligence function developed in-house, we have built a cloud service for accurately forecasting future river levels in real time and distributing the forecast information. The system has already been installed in more than 20 locations across Japan, and we aim to expand its use going forward.

Automation of a waste-to-energy plant

JFE's BRA-ING, the world's first automated operating AI system for waste incinerators, which uses AI-based image analysis of the combustion status and systemization of manual operations by skilled operators, has already been implemented, and we plan to install it in 10 facilities in fiscal 2021.

Conceptual diagram of the WinmuSe® Caesar river-level forecasting system

