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Abstract:

In the steel works composed of multiple divisions, it is necessary to optimize and formulate the operation plan not for each division but for the whole steel works. JFE Steel has developed a Steel Works Operation Strategy Model for easy and accurate overall optimization, and implemented it in East Japan Works (Keihin District). The optimization target is the blast furnace process and the energy sector, which have a large impact on the production cost and carbon dioxide emissions. Main blast furnace operation conditions which satisfy the prescribed conditions are output as a guidance. It makes easy to evaluate the whole steel mill operation, and contributes to the reduction of cost and carbon dioxide emissions.

1. Introduction

[illegible]

[illegible]

[illegible]

2.2 Energy Division

3.2 Actual Data Accumulation and Data Processing

[illegible]

[illegible]

[illegible]

3.3 Evaluation of Previous Day's Operation and