

YIELD PERFORMANCE

Optimization



Initial Use Case

A facility wanted to optimize the production yield for their polymer manufacturing and fiber spinning processes. EFT focused on delivering a real-time prediction of their yield based on the facility's key process drivers. The goal was to provide an early indication of suboptimal performance and highlight the variables influencing poor yield.

Solution

EFT collected 18 months of historical data for over 1,000 variables from several different data sources. EFT's analytics engineers then built dynamic data models for 10 major production lines. During this process, the variables were narrowed down to 100 key variables to maximize the yield prediction. To enable real-time deployment, EFT developed a custom data extraction and transfer process. This process pulls raw data from several customer data sources, automates calculations and delivers a clean data feed to the real-time monitor. This real-time monitor continues to provide a prediction of the yield and alerts when low yield is forecasted. These alerts highlight key variable changes causing the low yield and inspire action from operators with the ability to improve the overall yield performance.

