DIGITAL SMELTER

GE's Digital Smelter technology can dramatically reduce specific energy consumption, improve raw material utilization, enhance current efficiency and optimize the life of the potline, creating best-in-class performance outcomes and cost savings.

Direct Value

- Reduce Specific Energy Consumption (SEC)
- Optimize Pot Health
- Reduce Raw Material (AlF$_3$) Consumption

What is a digital smelter?

Digital Smelter by GE Digital is designed to help Smelter Operators get insights from their existing data using the Smelter Digital Twin.

This involves the application of advanced analytics, to model asset and process performance and the ability to monitor key performance indicators and take appropriate action.

Digital approach. Tangible results.

1. Potential for hundreds of thousands in saving through reduction in Specific Energy Consumption (SEC).
2. Proven reduction in pot leakage by ~60% and avoidance of unplanned stoppages.
3. Savings of hundreds of hours of frequent measurements like bath temperature and chemistry.
4. Improved visibility over 5+ years of data, decision logs and case histories.
5. Visibility of full potline health assessment through mobility and user-friendly Interface.
6. Continuous recommendations to enhance productivity and operating conditions.

Modules and Data Dashboard

- Historical Data Indication
- Historical Data Heatmap
- KPI Management
- Events library
- Up to Pot level Visualization
- Mobile App

Find Out More