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.

**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.

**Proven reduction of >70% in detection of unplanned pot failures.**
**Over hundreds of K$ savings through reduction in energy consumption in the potlines.**
**Reduced measurements man-hours by one-third through virtual sensor for bath thermochemistry.**
**Improved visibility over 5+ years of data, decision logs and case histories.**
**Visibility of full potline health assessment through mobility and user-friendly interface.**
**Continuous recommendations to enhance productivity and operating conditions.**

**What is a digital smelter?**

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**Reduce Specific Energy Consumption (SEC)**

- Optimize Pot Health
- Improve Raw Material (AlF3) Consumption

**Direct Value**

**Digital approach. Tangible results.**

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- Continuous recommendations to enhance productivity and operating conditions.

**Modules and Data Dashboard**

- Smelter Optimization (Up to pot level)
- Smelter History (Heatmap)
- Pot Simulator
- Smelter Alerts (Alerts/Cases Management)
- Executive Dashboard
- User Management
- Configuration tool
- Mobile App

Find Out More