




# 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

  
Improve Raw Material ( $\text{AlF}_3$ ) 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 Proven reduction of >70% in detection of unplanned pot failures.
- 2 Over hundreds of K\$ savings through reduction in energy consumption in the potlines.
- 3 Reduced measurements man-hours by one-third through virtual sensor for bath thermochemistry.
- 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

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



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