

## CASE STUDY

# Improving Real-Time Visibility and Operational Response for a Metal Filtration Technology Leader

## Client Profile

SELEE, A global leader in metal filtration technology, pioneering the use of ceramic foam and driving innovation in filtration, melt treatment, and transfer processes for all types of molten metals.



Consistency across our legacy and next-generation kiln assets was essential to scaling efficiently. ITHENA delivered exactly that. Their expertise helped us seamlessly unify our SCADA experience within Ignition, transforming a patchwork of old and new systems into a single, intuitive interface. By standardizing visualization and alarm workflows, our operators now work faster and with greater confidence—driving measurable gains in output without disrupting production. It's been a true accelerator for our digital transformation

—Shawn Hawkins,  
Automation Controls Systems  
Specialist, SELEE

## CHALLENGES

The client struggled with:

- Lack of real-time visibility for the newly commissioned Kiln within the existing system.
- Inconsistent visualization, alarms, and workflows across old and new Kilns.
- Risk of data inconsistency from PLC tag mapping and database integration gaps.
- Lack of intuitive operator interfaces, slowing issue detection and resolution.

## SOLUTIONS

IITHENA, in partnership with Ignition, empowered the client with:

1

### Seamless Kiln Onboarding:

Integrated new Kiln into the existing Ignition V8.12 environment with minimal disruption to live plant operations.

2

### Operator-Centric Visualization:

Designed and deployed intuitive operator screens using the Ignition Vision Module, including Kiln Overview, Zone Analysis, Trending, and Alarm dashboards for real-time and zone-level visibility.

3

### Reliable Data Integration:

Established direct PLC tag connectivity and MS-SQL database integration to enable accurate real-time and historical data capture across Kiln operations.

4

### Alarm Management & Drill-Down Workflows:

Configured intelligent alarms and structured drill-down navigation to accelerate identification of abnormal conditions and support faster operational response.

5

### Deployment & Stabilization Support:

Supported UAT, production deployment, and post-go-live stabilization to ensure solution reliability, operator adoption, and standardized workflows across Kilns.



marketing@ithena.ai



www.ithena.ai



4470 Cox Rd, #275  
Glen Allen, VA 23060, USA

## OPPORTUNITY FOR IMPACT

13%

**Improvement** in output  
efficiency

32%

**Faster** operational  
response time

28%

**Reduction** in operator  
error