

SUSTAINABLE MANUFACTURING

Enabling operational efficiencies through impactful decision making

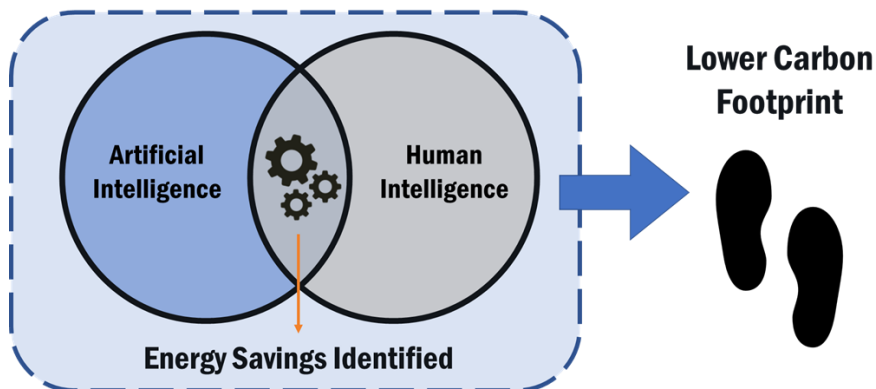


Ingenero's Sustainability Solutions



Augmented Intelligence

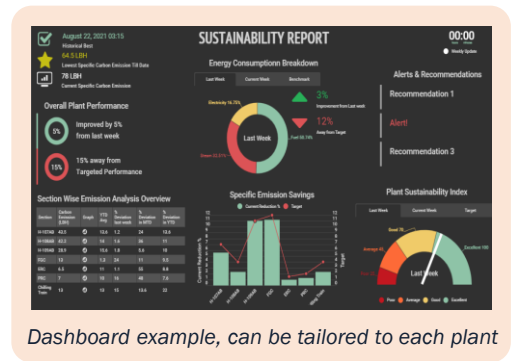
A key part of Ingenero's digital solutions, Augmented Intelligence is a hybrid approach utilizing cutting-edge technology together with human intelligence and domain expertise to create actionable insights. Combining Digital Twin and predictive models identifies energy savings and productivity improvements that lower the carbon footprint and increase corporate sustainability



The Ingenero Approach

STEP 1: TRACKING

- Smart Sustainability Dashboards provide efficient monitoring
- “Plan vs Actual” tracking identifies gaps for improvement
- Real-time tracking of plant’s total emissions provides actionable insights for reduction
- Data analytics, soft sensors and predictive models provide timely insights



STEP 2: DECISION INTELLIGENCE ANALYTICS

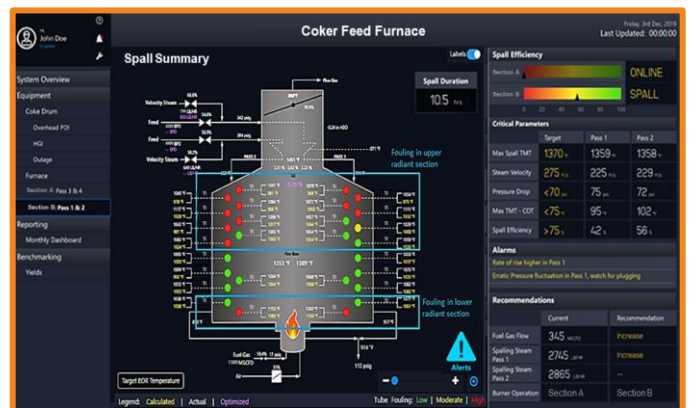
- Equipment and systems with highest improvement opportunity are identified
- Solution is customized to identify and address underperformance and optimize energy consumption in critical systems
- Digital twins are utilized to:
 - Provide accurate predictions of impact of change on entire process
 - Quantify realistic reductions associated with each change
- Studies are done to optimize performance and further sustainability goals

STEP 3: RESULTS

CASE STUDY:

Sustainability gains are achieved while maximizing profitability and production

This Dashboard visualization illustrates opportunities for effective energy utilization and operating unit yields.



Reach out to Ingenero today and see how you can be empowered with insight to drive your operations to **improved efficiency and sustainability!**

Contact us for more information!

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