InfraTechGreen Build

Was created to bridge the gap between industrial operations and sustainable innovation. The initiative focuses on enabling low-carbon manufacturing through practical, data-driven solutions that improve efficiency, and strengthen industrial competitiveness.

Sebastian Valenzuela

Applied Sustainable Manufacturing

We support organizations in designing and implementing sustainable manufacturing strategies that reduce environmental impact while improving operational performance. Our work focuses on integrating low-carbon materials, energy efficiency, and scalable industrial solutions aligned with long-term sustainability goals.

Automation & Loss Reduction

We support organizations in the design and implementation of automation strategies aimed at reducing operational losses, improving process reliability, and increasing overall efficiency.

Through the integration of digital tools, process optimization, and performance monitoring, we help identify inefficiencies, minimize waste, and enhance system stability across manufacturing operations.

Our approach focuses on practical, scalable solutions that enable measurable improvements in productivity, cost control, and sustainability outcomes.

Operational consulting in industrial safety

Standards-Based Safety Frameworks

Alignment with international standards such as ISO 45001, ISO 31000, and relevant OSHA guidelines to strengthen safety governance and compliance.

Operational Reliability & Loss Prevention

Reduction of incidents and operational losses by integrating safety into daily workflows and decision-making processes.

Risk Assessment & Process Optimization

Identification and mitigation of operational risks through structured analysis, process improvement, and performance monitoring.

Sustainable & Resilient Operations

Development of safety-driven operational models that support long-term productivity, resilience, and regulatory alignment.

Data-Driven Industrial Strategy

We support organizations in aligning data, technology, and operational strategy to improve efficiency, resilience, and sustainability performance. Our approach bridges technical analysis with actionable industrial decision-making.

Energy Optimization & Process Efficiency

We develop and support data-driven approaches to optimize energy use across industrial processes. This includes identifying efficiency gaps, improving energy performance, and supporting decision-making through measurable and replicable methodologies.

Applied Research & Technical Collaboration

We collaborate with universities, research centers, and innovation-driven organizations to support applied research initiatives, pilot programs, and technical validation efforts. Our focus is on transforming research insights into practical, real-world solutions.

Low-Carbon Materials & Industrial Innovation

Our work advances the development and application of low-carbon materials and sustainable construction solutions. We collaborate with research institutions and industry partners to evaluate feasibility, performance, and scalability within real operational environments.