CARPE DIGEM
Interreg Europe

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SICO

In the age of energy conservation, we at Elemental Particle have focused all our efforts on contributing to the reduction of waste of this precious resource. Our challenge was simple: Improve solid fuel combustion efficiency, and consequently reduce fuel consumption and combustion emissions. Our solution is the SiCO system.

Issues Faced

The problems faced with solid fuels combustion process are mainly related with high energy losses and pollutant emissions.

New technology developments, such as computerized sensors, communication networks, BigData analytical systems coupled with AI, spawned new possibilities for an optimized and efficient management of thermochemical processes.

Key Objectives

Our key objectives are to deliver to worldwide industries win-win solutions focused on the optimization of combustion systems that lead to reduced fuel consumption and flue gas emissions and expand our approach to other thermochemical processes were further optimizations can be achieved, leveraging on the combination of H2 techonologies and advanced IT solutions.

Main Results

With SiCO, we deliver an end-to-end services and products that provide Industry the technology required to make efficient and intelligent data-driven decisions in order to optimize and improve thermochemical processes, resulting in significant cost reductions, both from a financial as well as an environmental perspective.

ELEMENTALPARTICLE

SiCO
COMBUSTION
TECHNOLOGY

ELEMENTAL PARTICLE

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