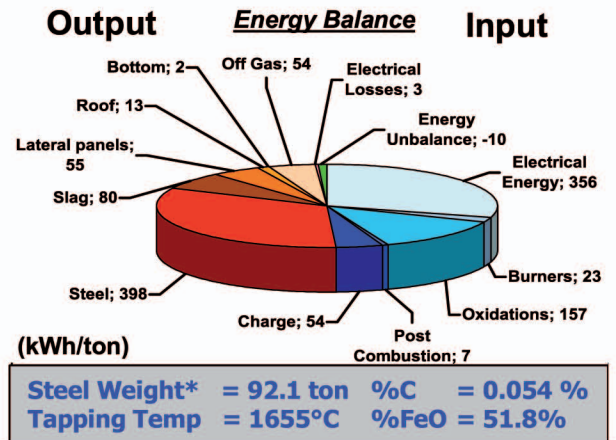
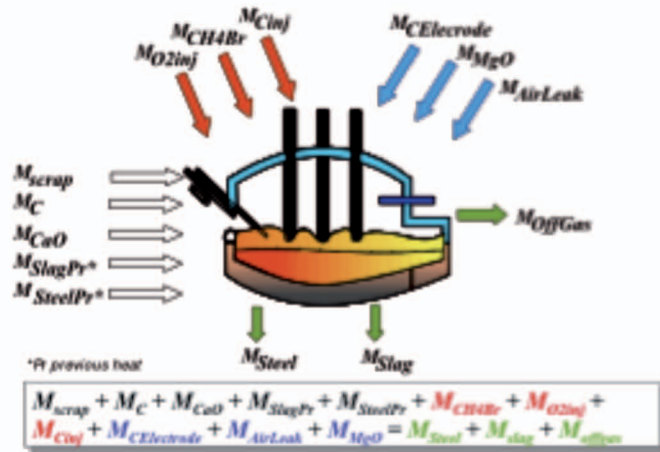




iCSMelt®

Problem:

The definition of Optimal Operative Practices (OOP) for EAF process requests to take into account the variability on production strategies, EAF configurations, and scrap characteristics.

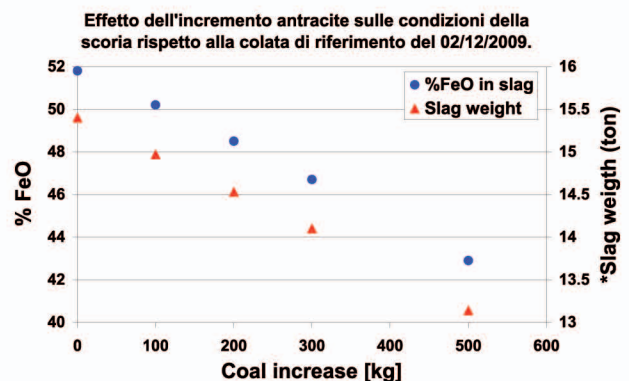


Solutions:

- iCSMelt® is the coupling of a process simulator, performing a pseudodynamic mass and energy balance, with an optimization module. This solution allows to find the optimal operative practices in terms of the target functions selected (Power On, Consumptions, Costs, Yield)

Benefits:

- to help heat analysis giving a global view of the process status.
- to evaluate effects on the process of operative practices modifications.
 - reduction of sources consumption and power on time
 - yield increase
 - reduction of global cost or total energy consumption.

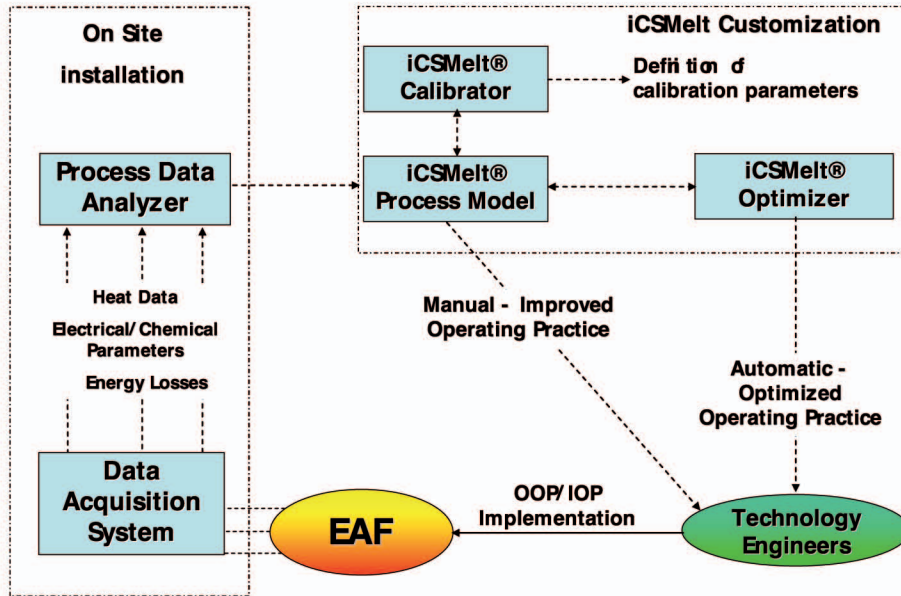




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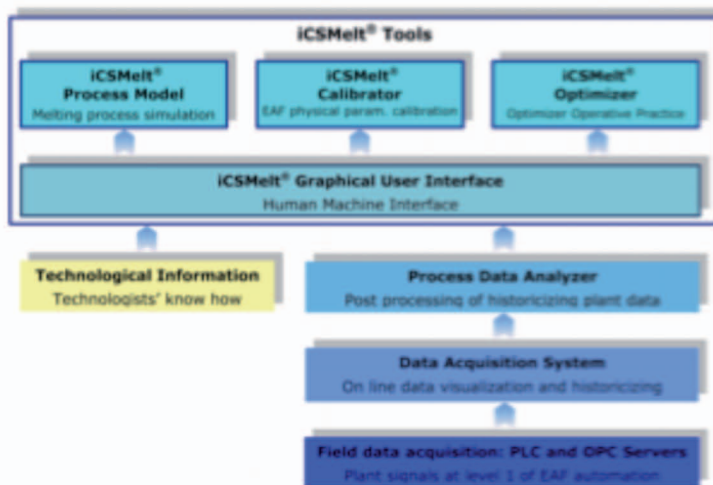
Industrial Arrangement:

- iCSMelt® is used for process analysis through the “iCSMelt® Process Model” or for optimization of the Standard Operating Practices (SOP) with “iCSMelt® Optimizer”.
- tool calibration in the range of the working conditions to be simulated is necessary.
- CSM support is available for tool calibration or tool use for the specific application.



- Off line installation or coupling with EAF L2 through Data Acquisition System can be performed to help the tool calibration.

- Coupling with the tool “FlexRecEAF” can be performed to complete simulation with evaluation of off gas conditions along off gas duct and estimate possible Energy Recovery.



contact:
 Centro Sviluppo Materiali SpA
www.c-s-m.it
marketing.steel@c-s-m.it