



recoflex™

Problem:

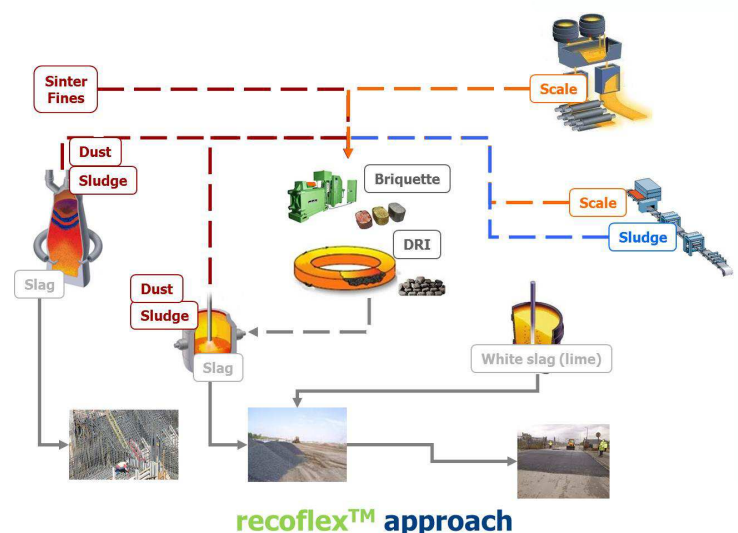
Sustainability of steel production is under focus not only from the point of view of GHG. Energy intensity, waste treatment and disposal, emissions reduction and treatments, together with increasing raw materials costs, all have a significant impact on the balance sheet.

Solution:

recoflex™ is the CSM's proposal targeting the minimisation of the Total Cost of Production, thanks to its ability to equilibrate operating practices, energy, raw materials and other available external and internal resources, such as wastes and by-products.

After a deep on site survey, a cash-flow driven feasibility study is supplied, in order to let Customers their own scale up timing.

Process optimisation and on-site assistance are included in the package for a guaranteed implementation, result evaluation and a rapid return of investment.



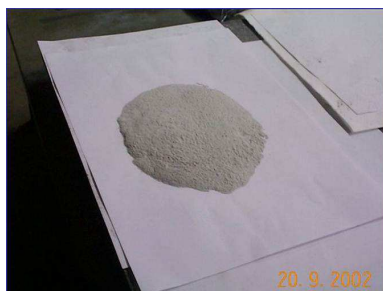
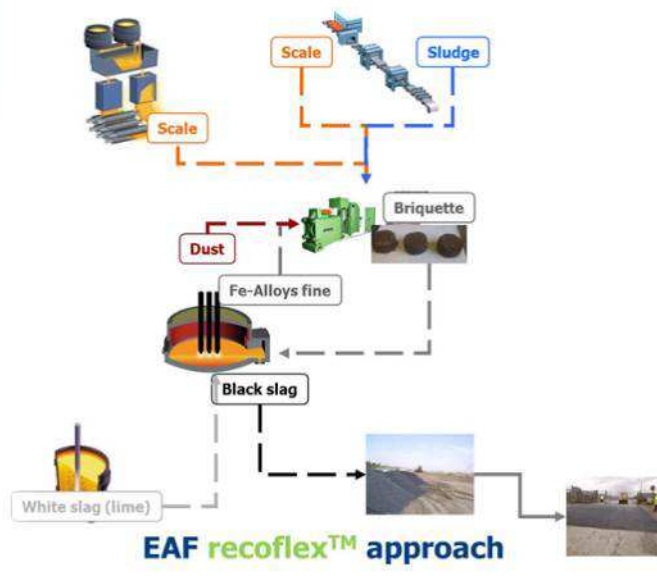
Benefits:

- Roadmap of internal waste and by-products full recycling
- Reduction of raw materials purchase costs
- Optimisation of plant productivity and yield
- Flexible operations
- Reduction of environmental footprint

Typical problem approached

recoflex™ helps steel producers reducing costs or producing revenues from:

- Sinter and Fe-alloy fines
- Dusts from BF/EAF/BOF
- Scale from continuous casting process and hot rolling mills
- Sludges
- Slag from BF/EAF/BOF/LF
- Refractory
- Off-gas treatment



Slag without treatment, 5h after cooling



Slag with treatment, 160h after cooling

recoflex™ takes advantage of other existing modules, such as *i-CSMelt*®, *IORTool*, *offgasDesign*, *ladleHeat*, *residual* and *combustion*, in order to reduce process costs at the first steps of the its implementation.

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