



Problem:

During scrap melting in EAF the real quantity of melt scrap is unknown. The decision to shift from burner to lance is so independent from the real state of melting process.

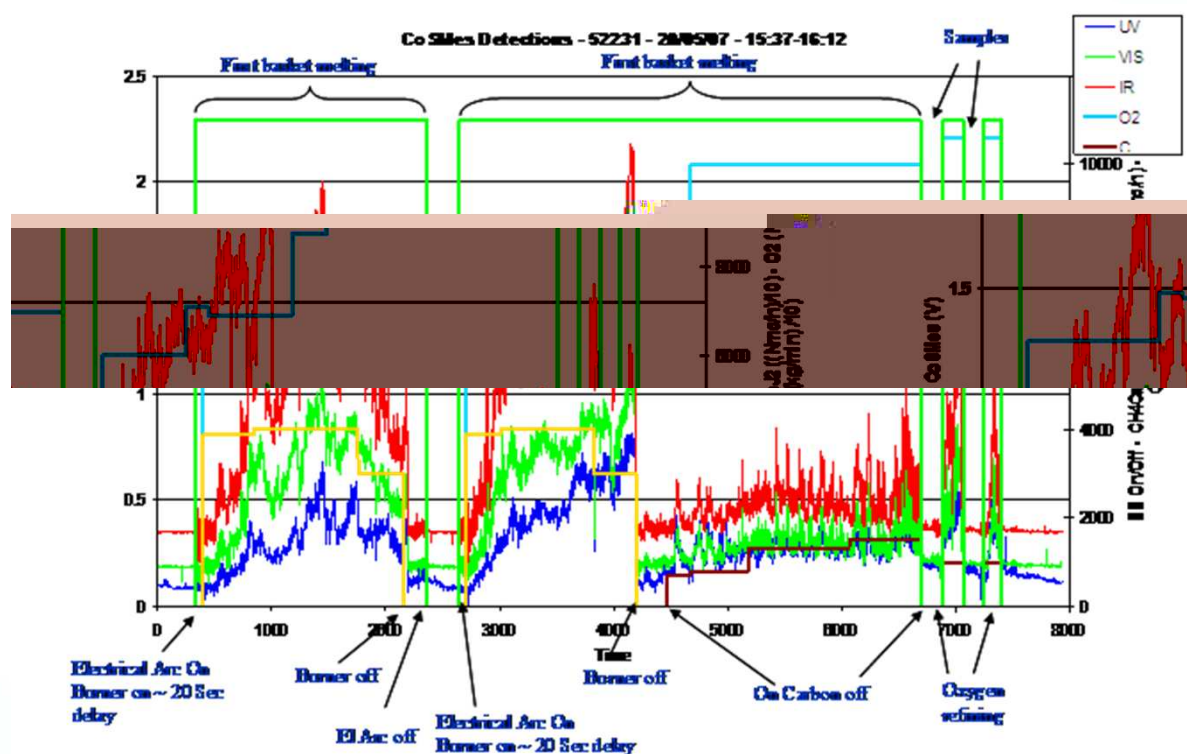
Solution:

CoSMes®, is a Continuous Scrap Melting sensor.

Based on an advanced image sensor, it is able to continuously monitor the status of scrap melting inside the EAF.

CoSMes® precisely individuate the complete melting of scrap, suggesting the more correct moment to shift from burner to lance operation

During flat bath operation it is able to analyse the arc status, in order to optimise carbon/lime injection.



Benefits:

- Proper shift from burner to lance
- Fuel optimisation
 - Optimisation of carbon/lime injection
 - Energy saving

Industrial Arrangement:

Availability around the EAF wall of a specific assembly point.
L1 and L2 EAF process data.



When used with i-CSMelt®, CoSMes® significantly improves the comprehension of EAF behaviour and allows to optimise the process.