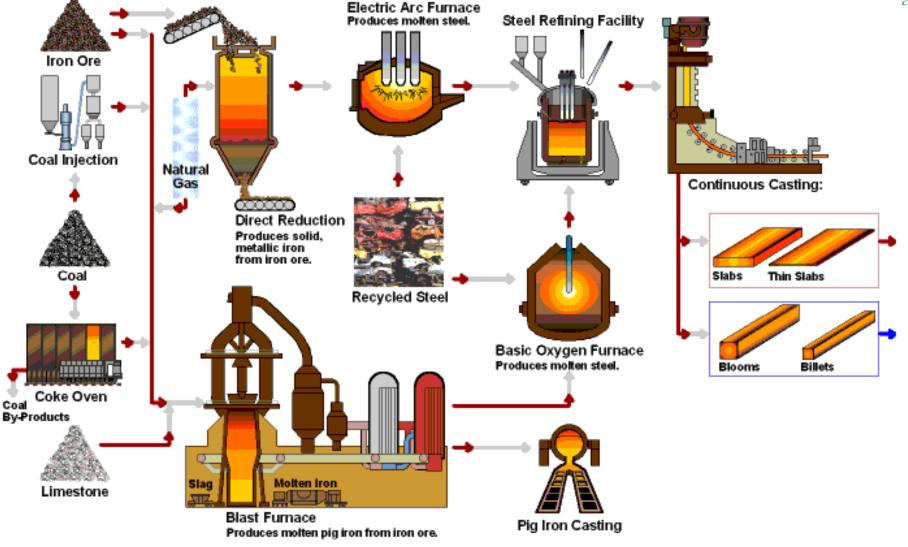
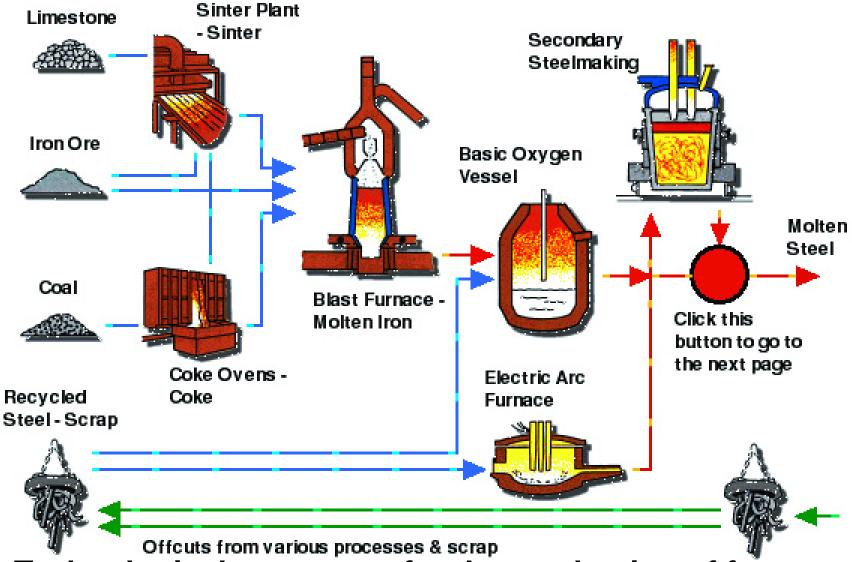


Maste recovery

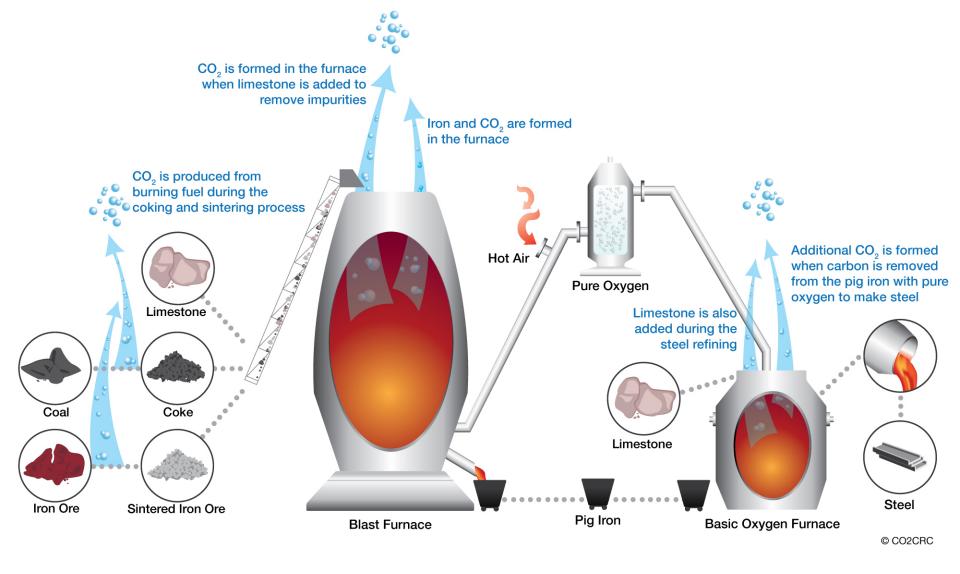
ferrous metals



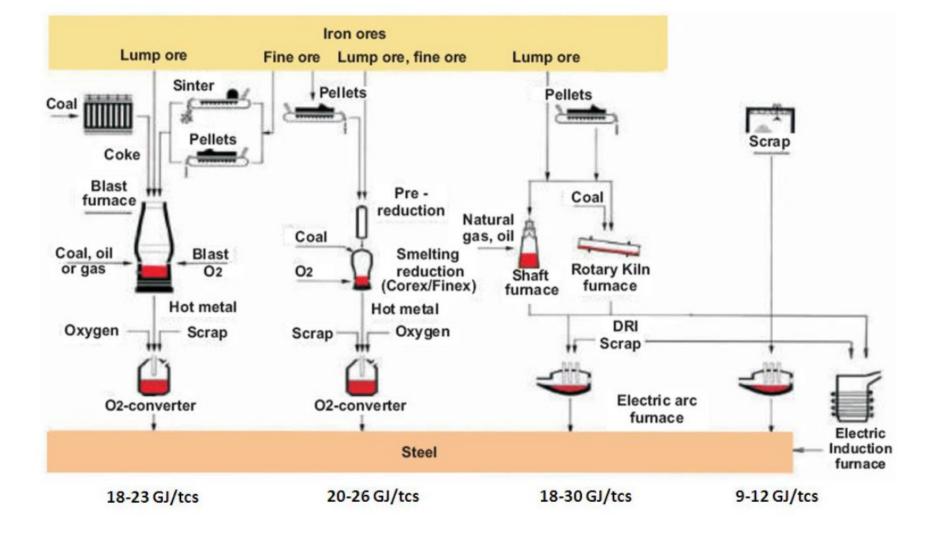
Scheme for the production of ferrous metal



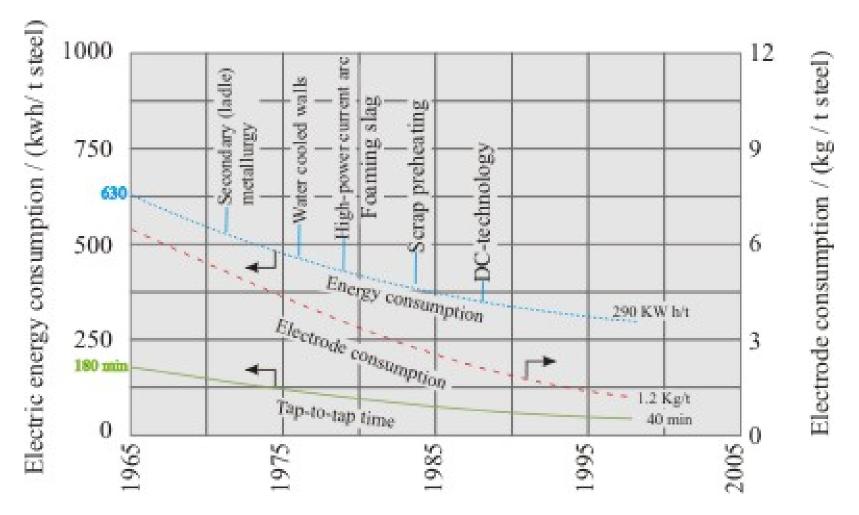
Technological processes for the production of ferrous metal in "Kremikovtzi" JSC



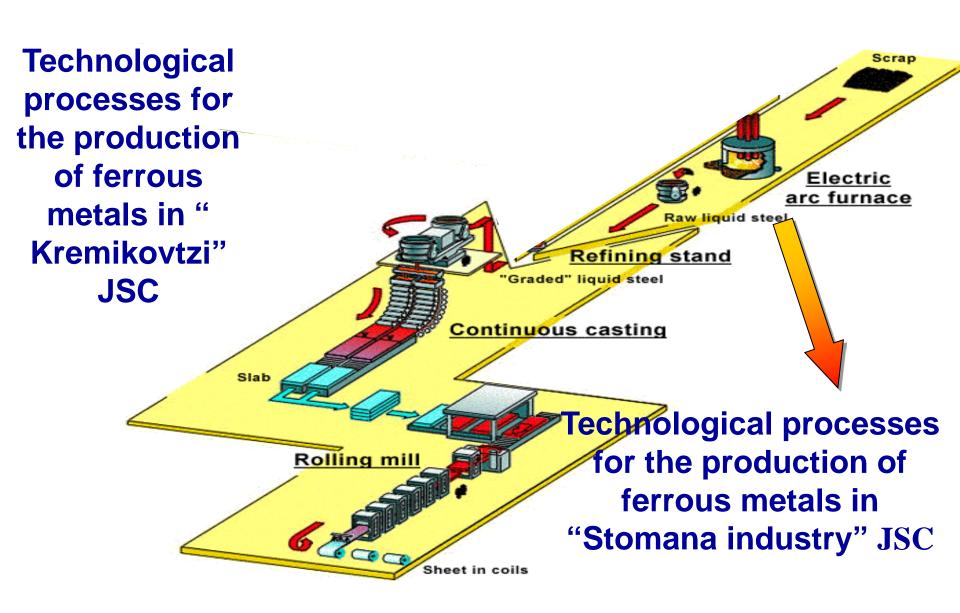
Emission sources in different traditional extractive technological processes for the production of ferrous metals.



Energy costs for implementation of different traditional extractive technological processes for the production of ferrous metals



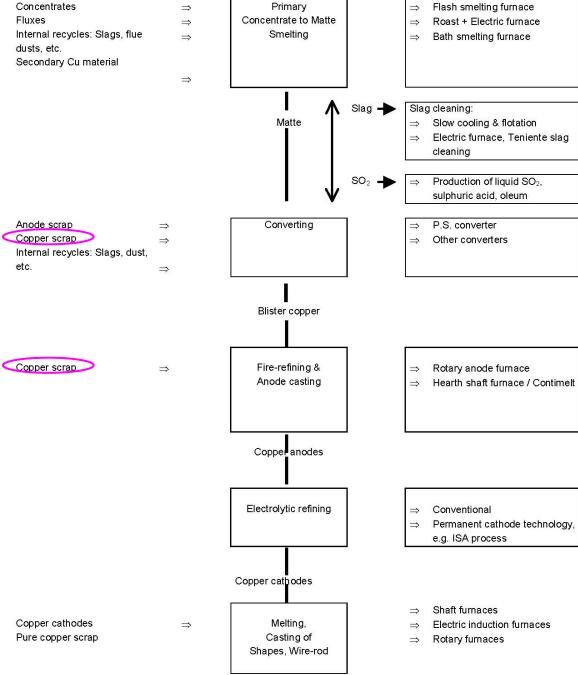
Costs for the production of ferrous metals in electric furnaces



Vaste recovery

non-ferrous metals





- LOADER
 Reduced handling increases productivity.
- MELTING FURNACE Automatic controls and multiple-fuel capability reduce energy costs. Easy-to-use operator interface cuts training time.
- O HOLDING FURNACE A simple, robust design delivers high reliability.
- ◆ CASTING MACHINE Easy set-up, maintenance and operation increases productivity.
- 6 AUTOMATIC ROTARY SHEAR
 Heavy-duty design gives long life and reliable operation.
- 6 BAR PREPARATION MACHINE
 This station features long-life cutting tools, plus
 easy adjustment for close control and accurate
 bar straightening.

MORGAN NO-TWIST® ROLLING MILL
The mill delivers high tonnage and high
uptime. It produces excellent rod tolerances and

superior surface quality.

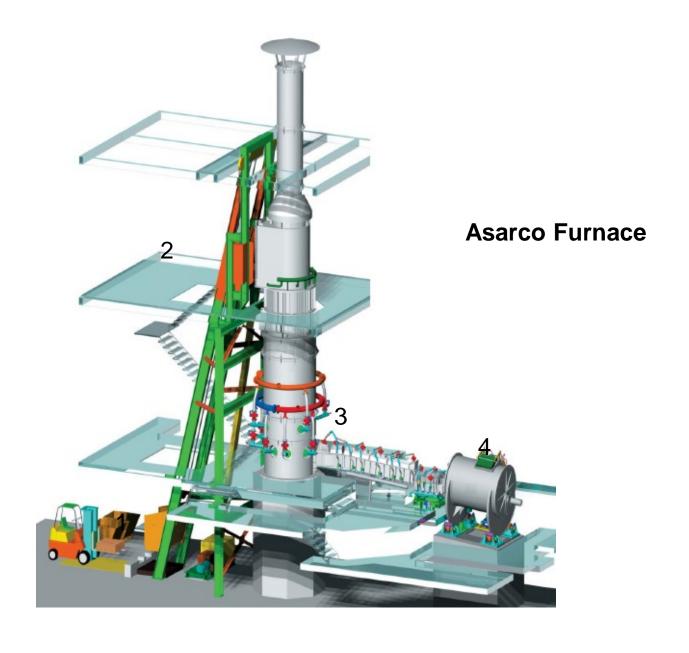
- 8 CLEANING AND COATING SYSTEM
 A non-acid cleaning and coating system reduces
 the cost of removing surface oxidation.
- OILER

 A Morgan coiler produces orbital- and spiral-wound coils up to 10 tons.
- © COIL-HANDLING LINE

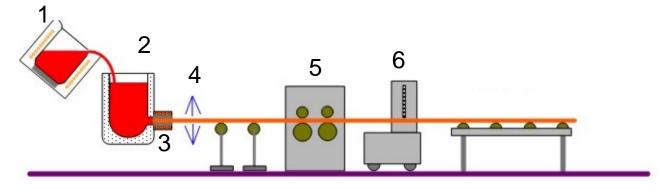
 Southwire offers numerous options for efficient coil removal and automatic coil packaging.
 - 1. Loading the furnace?
 - 2. Asarco melting furnace;
 - 3. Mixer;
 - 4. Slag raking machine;
 - 5. Disc scissors;
 - 6. Preparation;
 - 7. Plastic deformation;
 - 8. Cleaning process;
 - 9. Bending;

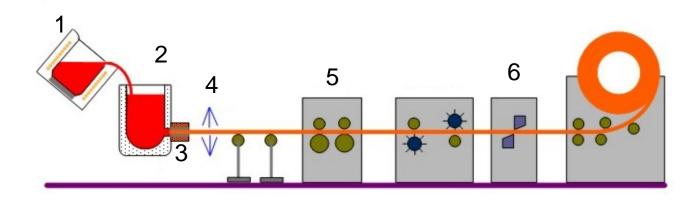
8

10. Packaging.

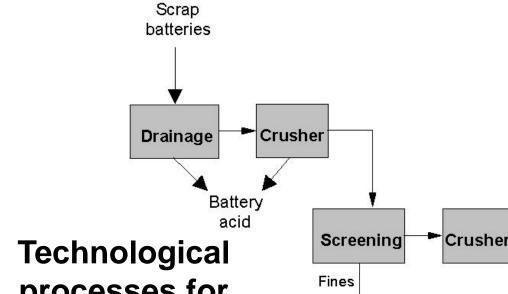


Technological processes for waste recovery of ferrous and non-ferrous metals by using induction furnaces





Component	[wt%]
Lead (alloy)	25 – 30
Electrode paste	35 – 45
Sulphuric acid	10 - 15
Polypropylene	5 - 8
Other plastics	4 - 7
Ebonite	1 - 3
Others	< 0.5
materials	



Electrode paste

processes for recycling lead-acid accumulators in "KCM"AD and "EL BAT" JSC

