

Hermosillo complete alternative fuel installation

Holcim Apasco – Mexico



Substitution rate: up to 60% of fossil fuel consumption
in FCB Zero-NO_x Preca

In order to reduce its fossil fuel consumption, Holcim Apasco awarded Fives FCB with a contract for the supply of a complete greenfield cement plant in Mexico.

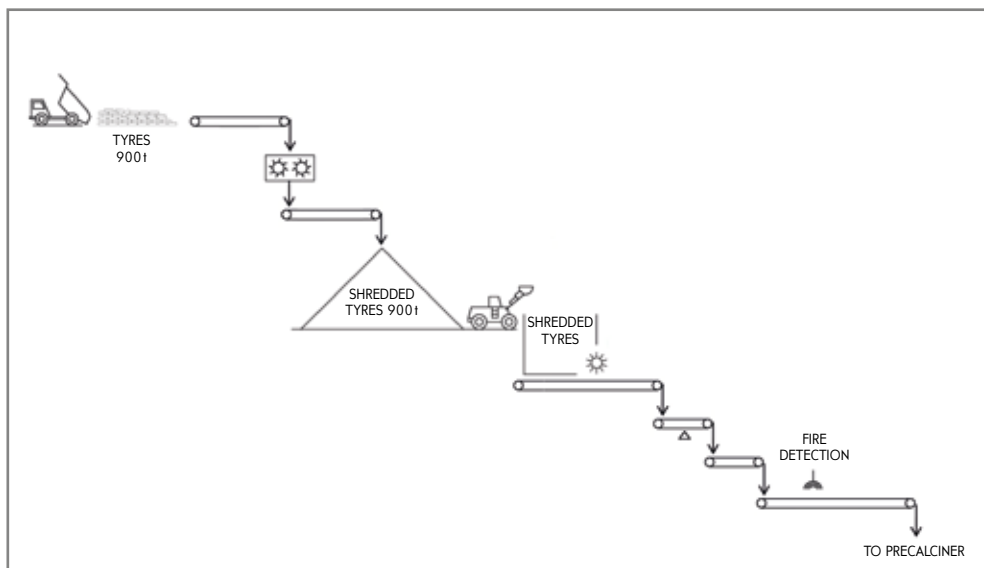
The plant is equipped with a complete alternative fuel installation, featuring the latest technologies developed or integrated by Fives to reduce the whole installation's environmental footprint and to meet the most stringent regulations.

Scope of work

- EP contract for the supply of an integrated alternative fuel workshop including:
 - Detailed engineering for civil works and steel structure works
 - Design and supply of Fives proprietary pyroprocessing equipment
 - Integration of alternative fuel storage, preparation, dosing and handling systems to burner inlet
 - Erection supervision and commissioning



Technical features		
Contract date	December 2007	
Commissioning date	March 2011	
Burning line capacity	3,500 tpd	
Conventional solid fuels	Petcoke and coal	
Alternative fuels	10 to 15cm - width tyre chips and various other alternative solid fuels upon collection	
Alternative fuel storage	Type	External stockpiling - 900t
	Capacity	8 days of clinker production
Alternative fuel preparation	Mobile electrical shredding unit for tyres - 5tph	
Alternative fuel dosing	Weighfeeders	
Alternative fuel transport system to burner	Belt conveyor	
Burning line	FCB Zero-NOx Preca Ø5.6m combined with Pillard RotaFlam® burner equipped with a 400mm diameter duct for alternative solid fuel injection	



TECHNOLOGIES COMBINING QUALITY WITH FLEXIBILITY

- Possibility to adapt the system for burning other types of alternative solid fuels