

Alekseevskiy, Sengileevskiy and Staroalekseevskiy plants

JSC Mordovcement – Russia



Substitution rate: up to 40% of fossil fuel consumption

In order to reduce its fossil fuel consumption, JSC Mordovcement, a major Russian cement producer, has entrusted Fives FCB with a contract for the design and supply of 4 complete wooden chip handling and dosing systems for its 3 sites.

The systems supplied by Fives feed 7 rotary kilns.

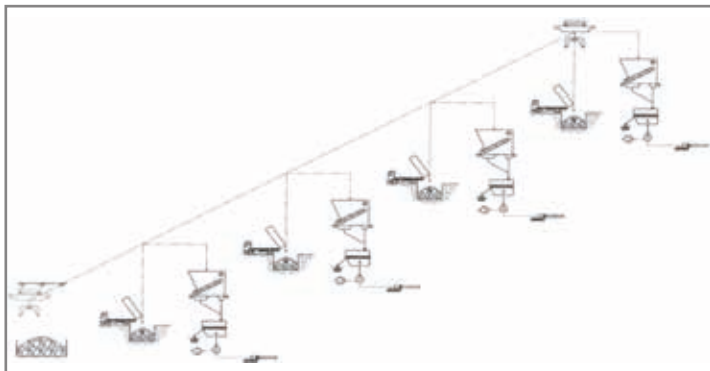
JSC Mordovcement is the first cement company in Russia to use wooden chips as alternative fuels, in order to comply with the company's program to reduce costs and ecological footprint.

Scope of work

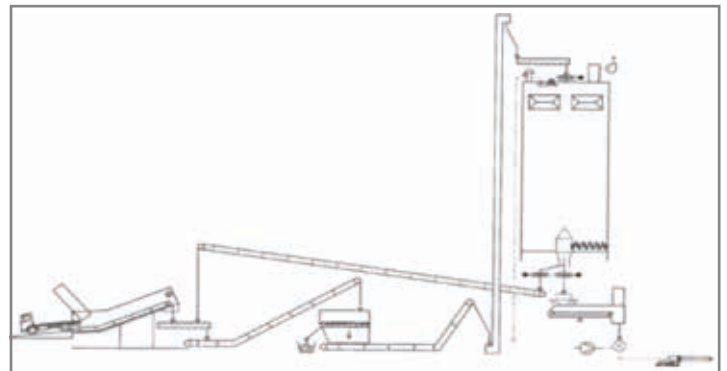
- EP contract for the upgrade of 3 sites of JSC Mordovcement:
 - Basic and detailed studies for the design of the complete wooden chip handling and dosing systems
 - Supply of the mechanical and electrical/automation equipment
 - Basic studies for civil engineering and steel structure works
 - Integration design of the new systems in the existing plants
 - Erection and commissioning supervision, training



Technical features			
Contract date		July 2011	
Commissioning dates		2013	2013 and 2014
Number of burning lines fed		4	3
Type of process		Wet process	Semi-dry and dry processes
Clinker line capacity		4 x 1,700 tpd	1 x 2,300 tpd - 1 x 6,000 tpd - 1 x 3,000 tpd
Main fuel		Gas	Gas
Alternative fuel		Wooden chips (< 25 mm) from the furniture industry, residues from forest-based cuttings, railway cross-ties, down-graded pallets, ...	
Alternative fuel storage	Type	Hoppers	Silos
	Capacity	8 hours of clinker production	8 hours and 24 hours of clinker production
Alternative fuel handling		Automatic controlled grab crane	Automatic extraction and recirculating systems
Alternative fuel dosing		Weighfeeders	
Alternative fuel transport system to burner		Pneumatic	
Burner		4 Pillard NovaFlam® burners	3 Pillard NovaFlam® burners



Wet line burner feeding



Semi-dry and dry line burner feeding

TECHNOLOGIES COMBINING PRODUCTIVITY AND QUALITY WITH FLEXIBILITY

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



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