

REFERENCE LIST CEMENT

INDUSTRY	PLANT SECTION	YEAR	COUNTRY	PLANT	CLIENT	SHORT DESCRIPTION AND AIM OF THE PROJECT
Cement	Preheater	2016	France	Couvrot	Ciments Calcia - Italcementi Group	Supply of 2 pendulum flaps incl. Engineering
Cement	Coal Mill	2016	Egypt	Alexandria	Titan Cement Egypt	Engineering and equipment for coal mill dedusting
Cement	Preheater	2016	Austria	Gartenau	Zementwerk Leube GmbH	Supply of TAD Gate and Pendulum Flap
Cement	Bypass	2015	Poland	Chelm	Cemex polska Sp Z o.o.	Bypass Quench
Cement	Preheater	2015	Italy	Ternate	Lafarge-Holcim	supply & engineering of 4 HEC cyclones
Cement	Preheater	2015	Turkey	Batiçim Izmir	Baticim Cimento	supply of 12 compensators
Cement	Bypass	2015	Slovakia	Rohoznik	Holcim Slovensko a.s.	Bypass Quench incl. Flap
Cement	Bypass	2015	Czech Republic	Prochowice	Cemex Cement, k.s.	Bypass Quench incl. Flap
Cement	Consulting	2015	Austria	Wopfingen	Wopfinger Baustoffindustrie GmbH	Feasibility study
Cement	Preheater	2015	Denmark	Aalborg	Aalborg Portland A/S	CFD Calciner Study
Cement	Consulting	2015	Angola	Messebo	Nova Cimangola II S.A.	EPCM for construction of 5.000 tpd Greenfield Clinker and Cement Plant
Cement	Preheater	2015	Thailand	Kaeng khoi	Siam cement Co. Ltd.	Plant investigation
Cement	Preheater	2015	Turkey	Cimko Çimento Narli (Gaziantep)	Cimko	Supply of 2 units of pendulum flap
Cement	Preheater	2015	Turkey	Batiçim Izmir	Baticim Cimento	PH upgradation to increase the production and to use AF up to 40%
Cement	Preheater	2015	Poland	Lafarge cement	Lafarge cement	Plant Audit
Cement	Raw Mill	2015	Thailand	Khao Wong plant	Siam cement Co. Ltd.	Hurricanes for RM cyclones
Cement	Preheater	2015	Vietnam	Hong Chong	Holcim	Plant investigation
Cement	Coal Mill	2015	Egypt	Beni suef company	Titan	Coal mill hot gas dedusting system

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Cement	Preheater	2015	Turkey	Kars Cimento	Cimentas	PH modification to increase the production
Cement	Preheater	2015	Poland	Cemex polska Sp Z o.o.	Cemex polska Sp Z o.o.	Plant investigation
Cement	Raw Mill	2015	Thailand	Thung song	Siam cement Co. Ltd.	Hurrivanes for RM cyclones
Cement	Raw Mill	2015	Thailand	Ta Luang	Siam cement Co. Ltd.	Hurrivanes for RM cyclones
Cement	Raw Mill	2015	Thailand	Lampang	Siam cement Co. Ltd.	Hurrivanes for RM cyclones
Cement	AF feeding system	2015	Germany	Karsdorf	Lafarge	Basic engg for AF feeding system
Cement	Hurriclone	2015	Germany	CEATEC	CEATEC	Supply of 1 hurriclone
Cement	Coal mill	2015	Macedonia	Cementarnica USJE AD skopje	Titan	Coal mill dedusting system
Cement	Preheater	2015	Egypt	Beni suef company	Titan	Plant investigation & Engg.
Cement	Alternative Fuels	2015	Ethiopia	Dire dawa	National cement	AF storage and feeding system
Cement	Preheater	2015	Italy	Buzzi Unicem s.p.a	Buzzi cement	PH and calciner modification
Cement	Raw Mill	2015	Thailand	Thung song	Siam cement Co. Ltd.	Hurrivanes for RM cyclones
Cement	Preheater	2015	Austria	Mannesdorf	Lafarge	Study and basic engg for the PH modification
Cement	Raw Mill	2015	Thailand	Lampang	Siam cement Co. Ltd.	Hurrivanes for RM cyclones
Cement	Preheater	2015	Thailand	Kaeng khoi	Siam cement Co. Ltd.	Plant investigation
Cement	Preheater	2015	Italy	Ternate	Holcim Italia	Modification of raw mill cyclones
Cement	Preheater	2015	Austria	Leube Zement	Leube GmbH	quenching chamber
Cement	Preheater	2015	France	Liban	Holcim SAL	hot meal chute modification

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Cement	Raw Mill	2015	Thailand	Khao Wong plant	Siam cement Co. Ltd.	Hurrivanes for RM cyclones
Cement	Raw Mill	2014	Thailand	Khao Wong plant	Siam cement Co. Ltd.	Hurrivanes for RM cyclones
Cement	Alternative Fuels	2014	Ethiopia	Mekelle	Messebo Building Materials	fire fighting system & set of wires for ball press
Cement	Consulting	2014	Russia	Belgorodsky	JSC Belgorodsky Cement	EPC services
Cement	Preheater	2014	Italy	Ternate	Holcim Italia	preheater modification
Cement	Consulting	2014	Russia	Ulyanovsk	Ulyanovskcement JSC	EPC services
Cement	Bypass	2014	Egypt	Assiut	Assiut Cement Company	Bypass Equipment, Fresh Air Control Flap
Cement	Consulting	2014	Angola	Cimangola	Nova Cimangola	Project Management Cost Pre-Contract Period for EPCM for new production line
Cement	Consulting	2014	Austria	Wopfing	Wopfinger Baustoffindustrie	Study and experiments on heavy metal reduction
Cement	Preheater	2014	Südafrika	De Hoeck	Pretoria Portland Cement Corp	Pyro Process Audit, Twin Pendulum Flap
Cement	Consulting	2014	Russia		OAo Holcim Russia	Basic Design Study for hot meal inlet
Cement	Consulting	2014	Austria		Bernegger GmbH	Feasibility study
Cement	Consulting	2014	Russia	Oskol	Oskolcement JSC	Evaluation of Engineering, Procurement & Construction (EPC) bids received from the Oskolcement JSC Large Scale Capital Expenditure (CAPEX) project
Cement	Preheater	2014	Turkey	Akçansa Canakkale	Akcansa Cimento	Preheater Optimization K1
Cement	Preheater	2014	Austria	Wietersdorf	Wietersdorf & Peggauer Zement GmbH	ExMercury system
Cement	Preheater	2014	Turkey	Yibitas Yozgat	Yibitas Yozgat Isci Birliđi Insaat Malzemeleri Ticaret ve Sanayi AS	preheater and raw mill exhaust gas plant audit
Cement	Preheater	2014	Austria	Wopfing	Wopfinger Baustoffindustrie	Equipment for cyclone modification
Power	Preheater	2014	Germany		Richard Kablitz & Mitthof GmbH	Hot gas cyclones

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Cement	Preheater	2014	Italy	Augusta	Buzzi Unicem	Engineering & CFD modelling in cooperation with Aixergee
Cement	Preheater	2014	Romania	Alesd	Holcim Romania	expansion joints and engineering cyclone modification
Cement	Preheater	2014	Ireland	Killaskillen	Lagan Cement Ltd	splash box DN 600
Cement	Bypass	2014	Denmark	Aalborg	Aalborg Portland A/S	Chlorine bypass modification: New water spraying system
Cement	Preheater	2014	Portugal		Cimpor Cimentos	Hurrivane
Cement	Alternative Fuels	2014	Austria	Wietersdorf	Wietersdorf & Peggauer Zement GmbH	Rocket Mill
Cement	Coal Mill	2014	Macedonia	Usje	Titan Usje	investigation for modification of coal mill drying gas dedusting
Cement	Preheater	2014	Austria	Mannersdorf	Lafarge Zementwerke GmbH	Hurrivane and tip tubes
Cement	Preheater	2014	Turkey	Elaziğ	Çimentoş Elaziğ	Preheater Optimization Phase 1 (Top Stage & Second Stage cyclones, riser ducts and meal pipes)
Cement	Preheater	2014	Turkey	Çanakkale	Akçansa Çimento	Plant Assessment for Preheater Optimization
Cement	Preheater	2014	Turkey	Samsun/Ladik	Akçansa Çimento	Plant Assessment for Preheater Optimization
Cement	Preheater	2014	Czech Republic	Hranice	Cement Hranice	Preheater/Calcliner Modification incl. high efficiency calciner with A TEC Post Combustion Chamber (PCC) and Low-NOx Stack Emission
Cement	Bag Filling Station	2013	Ethiopia	Mekelle	Messebo Building Materials	Big bag filling station
Cement	Preheater	2013	Austria	Wopfing	Wopfinger Baustoffindustrie GmbH	Rebuild Kiln inlet chamber
Cement	Study	2013	Russia	Slantsy	Cement LCC	RDF Implementation feasibility study
Cement	Bypass	2013	Poland	Piechcin	Lafarge	Bypass Quench
Cement	Consulting	2013	Azerbaijan	Baku	Norm LLC	Consulting for complete line
Cement	Clinker Cooler	2013	Austria	Wietersdorf	Wietersdorfer & Peggauer	Dedusting Cylclone

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INDUSTRY	PLANT SECTION	YEAR	COUNTRY	PLANT	CLIENT	SHORT DESCRIPTION AND AIM OF THE PROJECT
Cement	Preheater	2013	Belarus	Minsk	NPP Energo Nefte	Pendulum Flaps 3 pcs DN500, 1 pc DN700
Cement	Preheater	2013	Czech Republic	Hranice	Cement Hranice	Rebuild Calciner
Cement	Study	2013	Irak	Bazyan	Mass Iraq	Study Alternative fuel preparation plant
Cement	Preheater	2013	South Africa	Pretoria	Pretoria Portland Cement	Pendulum Flaps DN 450 & DN700
Cement	Consulting	2013	Sambia	Lusaka	Dangote	EPCM for new production line
Cement	Alternative Fuels	2013	Ethiopia	Mekelle	Messebo Building Materials	Alternative Fuel Biomass Firing plant
Cement	Coal Mill	2013	Turkey	Gaziantep	Çimko Çimento	Plant Assessment Coal Mill Dust Reduction
Cement	Fuel Mill	2013	GTM	San Miguel	Progreso	Equipment Opticoal before Fuel Mill
Cement	Bypass	2013	PER	Arequipa	Cem Yura	Bypass
Cement	Preheater	2013	Italy	Ternate	Holcim Italia S.p.A.	Modification Tertiary Air Duct
Cement	Bypass	2013	Italy	Ternate	Holcim Italia S.p.A.	Bypass modification
Cement	Preheater	2013	Italy	Ternate	Holcim Italia S.p.A.	Cyclone stage 2 and meal duct modification
Cement	Preheater	2013	BRA	Sao miguel	ATBR	Preheater Upgrade
Cement	Preheater	2013	MEX	Orizaba	Holcim Apasco	TAD Eng
Cement	Preheater	2013	India	Bhatapara	Ambuja Cement	Preheater Audit
Cement	Preheater	2013	USA	Speed	Essroc	Design of stage 2 splash box
Cement	Preheater	2013	CHL	Caleras	Melon	Installation supervisor
Cement	Raw mill	2013	Thailand	Pukrang	ASIA CEMENT	HURRIVANE for Raw Mill CyClones

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INDUSTRY	PLANT SECTION	YEAR	COUNTRY	PLANT	CLIENT	SHORT DESCRIPTION AND AIM OF THE PROJECT
Cement	Preparation and Burning of Alternative fuels	2013	Philippines	Apo	Cemex Philippines	Engineering new ID fan, RDF feeding system and Combustion Chamber for Preheater
Cement	Preheater	2013	Switzerland	Wildegg	ABB Schweiz AG	Waste heat recovery
Cement	Bypass	2012	Austria	Wopfing	Wopfinger Baustoffindustrie GmbH	Engineering for AL skimmings and mercury
Cement	Preheater	2013	PER	Piura	Loesche Latinoamericana, S.A.U.	HU for raw mill
Cement	Preheater	2012	Philippines	Lugait	Holcim	New top stage cyclones, engineering and supply
Cement	Preparation and Burning of Alternative fuels	2012	Philippines	Solid	Cemex Philippines	RDF feeding system main burner
Cement	Coal Mill	2012	Colombia	San Marcos	San Marcos	Quality supervision of the coal mill refurbishment in USA
Cement	Preheater	2012	Honduras	San Pedro Sula	CEMENTOS DEL NORTE	Alternatives Fuels implementation study
Cement	Preheater	2012	Honduras	San Pedro Sula	CEMENTOS DEL NORTE	Energy use study
Cement	Preheater	2012	Venezuela	Cumarebo	Holcim de Venezuela	Production Bottlenecks Study
Cement	Preheater	2012	Venezuela	San Sebastian	Holcim de Venezuela	Production Bottlenecks Study
Cement	Preheater	2012	Belgium	Lixhe	CBR Heidelbergcement Group	Splash Box DN600
Cement	Preheater	2012	Austria	Wopfing	Wopfinger Baustoffindustrie GmbH	New Calciner Top part (Post Combustion Chamber (PCC))
Cement	Preheater	2012	Italy	Robilante	Buzzi Unicem S.p.A.	Improvement of kiln inlet bypass take off orifice Combustion Chamber Precalciner Area
Cement	Bypass	2012	Austria	Wietersdorf	Wietersdorfer & Peggauer	Detail engineering for mercury bypass
Cement	Raw mill	2012	Germany	Harburg	Märker Zement	HEC for Raw mill
Cement	Bypass	2012	Portugal	Outão	Secil	By-pass system kiln #8 and kiln #9, supply of Equipment and engineering
Cement	Consulting	2012	Angola	Luanda	Nova Cimangola	EPCM for new production line

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Cement	Consulting	2012	Bahrain	Manama	Cemena Holding	Plant investigation
Cement	Preheater	2012	South Africa	De Hoek	Pretoria Portland Cement	Splash Box DN500
Cement	Preheater	2012	South Africa	Hercules	Pretoria Portland Cement	New pendulum flap and splash box DN500
Cement	Preheater	2012	Switzerland	Untervaz	Holcim Schweiz	replacement of HURRICLONE® on top stage
Cement	Preparation and Burning of Alternative fuels	2012	Germany	Rohrdorf	Südbayerisches Portland-Zementwerk Gebr. Wiesböck & GmbH	Study for tyre feed
Cement	Raw mill	2012	Austria	Gartenau	Leube GmbH	Engineering, Manufacturing and Erection for Modification of Raw Mill 5 to 3-fan-system
Cement	Raw mill	2012	Austria	Wietersdorf	Wietersdorfer & Peggauer	Audit on raw mill
Cement		2012	COL	San Marcos	San Marcos	Commissioning supervision
Cement		2012	COL	San Marcos	San Marcos	Commissioning supervision, additional days
Cement		2012	BRA	Sao miguel	ATBR	PPI Sao Miguel Plant
Cement	Preheater	2012	COL	Rio Claro	Argos	Basic Eng for PH upgrade
Cement		2012	COL	Rio Claro	Argos	Mechanical Supervisor
Cement		2012	COL	Rio Claro	Argos	Mechanical Supervisor, additional days
Cement		2012	COL	Rio Claro	Argos	Advanced Welding Services
Cement		2012	COL	San Marcos	San Marcos	Commissioning supervision
Cement	Preheater	2012	CHL	Caleras	Melon	New Diptube and fixation
Cement		2012	COL	San Marcos	San Marcos	Commissioning services PM
Cement	Calciner	2012	MEX	Orizaba	Holcim Apasco	K2 calciner CFD

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Cement	Preheater	2012	COL	Rio Claro	Argos	PV DN 700 & SB
Cement	Preparation and Burning of Alternative fuels	2011	Philippines	Apo	Cemex Philippines	RDF feeding system main burner
Cement	Preparation and Burning of Alternative fuels	2011	Philippines	Bulacan	Republic Cement	RDF Feeding engineering, equipment & erection
Cement	Preparation and Burning of Alternative fuels	2011	Philippines	Norzagaray	Republic Cement	RDF Feeding engineering, equipment & erection
Cement	Preparation and Burning of Alternative fuels	2011	Philippines	Teresa	Republic Cement	RDF Feeding engineering, equipment & erection
Cement	Preparation and Burning of Alternative fuels	2011	Philippines	Solid	Cemex Philippines	RDF Feeding equipment
Cement	Preparation and Burning of Alternative fuels	2011	Russia	Belgorod	JSC Belgorodsky Cement	Study for upgrading pyro-process including utilization of alternative fuels
Cement	Clinker Cooler	2011	Switzerland	Untervaz	ABB Schweiz AG	Engineering and equipment for hot gas duct for Waste Heat Recovery Clinker cooler
Cement	Preparation and Burning of Alternative fuels	2011	Czech Republic	Horne Srnie	Cemmac A.S.	Study on Alternative Fuel Utilization Systems & Fuel Processing
Cement	Consulting	2011	USA	general	Cemex	Consultancy services for technical arbitration
Cement	Consulting	2011	India	Yerraguntla	CTG Italcementi Group	consulting services for auditing the construction works of a cement production line
Cement	Consulting	2011	Kongo		Nova Cimangola	Due diligence study
Cement	Consulting	2011	Indonesia	Banda Aceh	PT Lafarge Cement Indonesia	Witness for the Performance Guarantee Tests of the Clinker Line, Raw Grinding, Coal Grinding and Cement Grinding department and prepare a witness report about the achieved results of such tests
Cement	Consulting	2011	Nigeria	Ashaka	Ashaka Cement	Claim Audit of Contract Work for Coal mill
Cement	Preheater	2011	Hungary	Kiralyegyhaza	CBMI Constructions Co. Ltd.	Preheater for new production line 2500 tpd
Cement	Preheater	2011	Switzerland	Untervaz	ABB Schweiz AG	Dust transport Supply of rotary valve, compensators, screw conveyors
Cement	Preheater	2011	Slovakia	Rohoznik	Holcim Slovakia	1. The engineering for the dedusting of the kiln before an existing bag house filter. 2. Supply of HEC Cyclone 2000 incl. wear protection 3. Supply of Components
Cement	Preheater	2011	Lebanon	Sibline	Ciment de Sibline S.A.L.	Plant investigation Preheater and hot air ducting Kiln #1

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Cement	Preheater	2011	Turkey	Kahramanmaras	CIMKO CEMENTO	Delivery of Pendulum flaps DN800
Cement	Preheater	2011	Switzerland	Untervaz	ABB Schweiz AG	Hot gas duct for WHR
Cement	Preheater	2011	Austria	Gartenau	Leube GmbH	Equipment supply Bypass mixing chamber
Cement	Preheater	2011	Italy	Merone	Holcim Italia S.p.A.	Delivery of Pendulum flaps DN600 and Tertiary Air Damper
Cement	Preheater	2011	Belgium	Lixhe	CBR Heidelbergcement Group	Delivery of Pendulum Flaps DN700
Cement	Preheater	2011	Hungary	Kiralyegyhaza	Ceminvest Consulting Contracting Ltd.	Engineering for erection
Cement	Bypass	2011	Poland	Ozarow	Grupa Ozarow S.A.	Basic Engineering and Project Management for Bypass Dust Storage and Dosing System
Cement	Bypass	2011	Romania	Campulung	Holcim Romania	The Owner intends to install a chlorine bypass installation at his existing kiln line, in order to be able to co-process fuel with higher content of chlorine.
Cement	Bypass	2011	Romania	Alesd	Holcim Romania	The Owner intends to install a chlorine bypass installation at his existing kiln line, in order to be able to co-process fuel with higher content of chlorine.
Cement	Bypass	2011	Latvia	Broceni	Cemex Latvia	Study for Chlorine Bypass Improvement
Cement	Preparation and Burning of Alternative fuels	2011	Austria	Wietersdorf	Wietersdorfer & Peggauer	planning works for withdrawal of gas on stage 5 for sewage sludge drying
Cement	Preparation and Burning of Alternative fuels	2011	Brazil	Ijaci	Italcementi	Basic Eng for industrial waste conversion into fuel for cement kiln and calciner
Cement	Raw mill	2011	Austria	Wopfing	Wopfinger Baustoffindustrie GmbH	Engineering for modification of exhaust gas after cement kiln, exhaust gas fan, raw meal, thermal post-combustion and waste heat recovery
Cement	Clinker Cooler	2011	Korea	Okyie	Lafarge Halla Cement	Clinker cooler dedusting before boiler for heat recovery power generator
Cement	Clinker Cooler	2011	Korea	Donghae	Lafarge Halla Cement	Dedusting of clinker cooler hot gas use for waste heat power generator
Cement	Preheater	2011	BRA	Arcos	ATBR	Plant investigation
Cement	Preheater	2011	COL	Ibague	IMSACOL	Preheater 440/750 t/d; Basic Eng
Cement	Clinker Line	2011	ECU	Chimborazo	Pifem	Basic Eng for new clinkering line

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Cement	Clinker line	2011	ECU	Chimborazo	Pifem	Basic Eng for new clinkering line, added Eng
Cement		2011	ECU	Guapan	Industrias Guapan	Plant investigation
Cement	Preheater	2011	MEX	Orizaba	Holcim Apasco	2x PV700
Cement		2011	COL	Rio Claro	Argos	Plant investigation
Cement	Preheater	2011	USA	Speed	Essroc	Splashbox for C3
Cement	Consulting	2010	Egypt	Wadi Degla	Wadi Degla Holding	Consultancy services for a new slagstar production
Cement	Consulting	2010	Angola	Cimangola	Nova Cimangola	Consultancy services for tender evaluation and associated services for a 5000 tpd cement plant
Cement	Consulting	2010	Saudi Arabia	general	Al Safwa Cement Company	A TEC was contracted to perform project audits on the project management performance of the suppliers consortium for a Greenfield cement production facility.
Cement	Preheater	2010	Venezuela	Cumarebo	Holcim de Venezuela	Production Bottlenecks Study
Cement	Preheater	2010	Venezuela	San Sebastian	Holcim de Venezuela	Production Bottlenecks Study
Cement	Preheater	2010	Austria	Gartenau	Leube	Supply compensators
Cement	Preheater	2010	Austria	Gartenau	Leube	Technical evaluation of the plant optimisation as well as viability of tyre combustion.
Cement	Preheater	2010	USA	Stockerton	Hercules Cement	Pendulum flaps
Cement	Preheater	2010	Switzerland	Untervaz	ABB Schweiz AG	Study waste heat recovery at Holcim Untervaz Detail Engineering & Project Management
Cement	Preheater	2010	South Africa	Hercules	Pretoria Portland Cement	process design, basic engineering and technical evaluation of the recommended options for the modernization of the pyro-section with main emphasis on the preheater-calciner section
Cement	Preheater	2010	China	Kiralyegyhaza	CBMI	Burning chamber for Preheater for new production line 2500 tpd
Cement	Preheater	2010	Finland	Parainen	Finnsementi	Increase the production from 2.600 to 3.000 t/d 1. Plant investigation 2. Modification of Preheater Tower Stage 3 and 4 with new meal pipes, pendulum flaps, splash boxes, compensators
Cement	Preheater	2010	Austria	Mannersdorf	Lafarge Permooser GmbH	Study and engineering hot gas expansion joint

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Cement	Preheater	2010	Germany	Wössingen	Lafarge Zement Wössingen GmbH	Commissioning and modification of pendulum flaps
Cement	Preheater	2010	Belgium	Lixhe	CBR Heidelbergcement Group	cyclone to separate dust from a pneumatic transport
Cement	Preheater	2010	India	Chandera	Chandera Cement Works Ltd	A TEC is completing major preheater modification at this plant, including DCD, all five cyclones, all riser ducts, calciner to reduce fuel consumption and pressure drop and firing of 100% petcoke
Cement	Bypass	2010	Poland	Ozarow	Grupa Ozarow S.A.	Scope of the supply refers to the installation of a bypass system designed for a 10% bypass rate. 1. Basic Engineering & Project Management 2. Equipment & Supervision of Erection and Commissioning 3. EPCM
Cement	Bypass	2010	Poland	Chelm	Cemex Polska	Supply of a quench
Cement	Bypass	2010	Poland	Ozarow	Grupa Ozarow S.A.	ATEC Engineering Supply for ByPass System
Cement	Preparation and Burning of Alternative fuels	2010	Philippines	Solid	Cemex Philippines	Engineering for alternative fuel feed to calciner
Cement	Preparation and Burning of Alternative fuels	2010	Egypt	El Soukhna plant	Lafarge Egypt Cement	Supply swing chute for alternative fuels infeed
Cement	Preparation and Burning of Alternative fuels	2010	United Kingdom	Padeswood	Castle Cement	Complete new fuel feed chute (Swing Chute) for alternative fuels infeed to existing calciner
Cement	Preparation and Burning of Alternative fuels	2010	Egypt	El Soukhna plant	Lafarge Egypt Cement	Engineering for alternative fuel utilisation system plastic and paper
Cement	Preparation and Burning of Alternative Fuels	2010	Poland	Ozarow	Grupa Ozarow S.A.	Study for alternative fuel dosing system
Cement	Raw mill	2010	Ecuador	Llama	CBMI (China) for Lafarge Llama	Flash Dryer for pozzolan drying
Cement	Coal Mill	2010	Colombia	San Marcos	San Marcos	Quality supervision of the coal mill refurbishment in USA
Cement	Preheater	2010	Colombia	San Marcos	San Marcos	Process eng and PH basic design 300*600 t/d
Cement	Kiln	2010	Colombia	San Marcos	San Marcos	Quality Assurance for kiln in China
Cement	Coal Mill	2010	USA	Cabot	Armstrong Cem	2x HU for coal mill dedusting
Cement	Preheater	2010	Chile	Caleras	Melon	HV 2450
Cement	Preheater	2010	Chile	Caleras	Melon	Installation services

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Cement	Preheater	2010	Colombia	San Marcos	San Marcos	Hardware for PH
Cement	Preheater	2010	CAN	Mississauga	Holcim (Canada)	Hurrivane for ST2 x2
Cement	Preheater	2010	CAN	Mississauga	Holcim (Canada)	Diptube for ST2 x2
Cement	Consulting	2009	Nigeria	Ashaka	AshakaCem PLC	The client requests a third party audit on the status of the engineering and supply of the new preheater equipment at the Lafarge Ashaka plant
Cement	Consulting	2009	Germany	Wössingen	Lafarge Zement Wössingen GmbH	EPCM services for new production Line
Cement	Consulting	2009	United Arabian Emirates	Dhafra	Al Dhafra Cement	New cement production facility 5000 t/day clinker production
Cement	Bypass	2009	Germany	Wössingen	Lafarge	Bypass system
Cement	Preheater	2009	Germany	Wössingen	Lafarge Zement Wössingen GmbH	Engineering of preheater and supply of key equipment
Cement	Preheater	2009	Honduras	Piedras Azules	Lafarge Incehsa	Optimization of the preheater. Installation a new downcomer duct for hot gases from preheater to centrifugal fan.
Cement	Preheater	2009	Italy	Grigolin	Grigolin Group	Feasibility Study to verify the feasibility of a 2.200 t/d clinker production facility in line with the height limitation pointed out by the client.
Cement	Preheater	2009	India	Pullyur Cement Factory	Chettinad Cement Corp	Pyro Process Audit
Cement	Preheater	2009	Honduras	San Pedro Sula	CEMENTOS DEL NORTE	Energy use study
Cement	Preheater	2009	Poland	Malogoszcz	Lafarge Cement S.A.	Supply Pendulum flap
Cement	Preheater	2009	Austria	Gartenau	Leube GmbH	Study for optimization potential on site & tire combustion rotary kiln
Cement	Preheater	2009	Egypt	Assiut	Assiut Cement Company	Optimization of the existing preheater by modifying the down comer duct
Cement	Preheater	2009	Austria	Vils	Schretter & CIE	Modification inlet chamber and mealpipe
Cement	Preheater	2009	Italy	Ternate	Holcim Italia S.P.A.	Cyclone stage 1 and calciner duct modification Delivery and erection Engineering tertiary air duct
Cement	Preheater	2009	United Kingdom	Ketton works	Castle Cement LTd	Supply of 2 Pendulum flaps

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INDUSTRY	PLANT SECTION	YEAR	COUNTRY	PLANT	CLIENT	SHORT DESCRIPTION AND AIM OF THE PROJECT
Cement	Preheater	2009	France	Usine de Gargenville	Ciments Calcia	HURRIVANE® and dip tube
Cement	Preheater	2009	Belgium	Lixhe	CBR Heidelbergcement Group	HURRIVANE® and dip tubes
Cement	Preheater	2009	Ecuador	San Juan Chico	Cemento Chimborazo	Engineering for upgrading and modernisation of existing preheater including new top stage assembly, pendulum flaps
Cement	Bypass	2009	Bulgaria	Beli Izvor	Holcim Bulgaria	Supervision Erection, Supervision Commissioning
Cement	Bypass	2009	Croatia	Koromaco	Holcim Hrvatska	Study bypass system with separate dedusting to decrease the circulation of volatile components
Cement	Preparation and Burning of Alternative fuels	2009	Honduras	San Pedro Sula	CEMENTOS DEL NORTE	Alternative Fuels implementation study
Cement	Preparation and Burning of Alternative fuels	2009	Thailand	Saraburi	CEMEX Thailand	Evaluation of utilization of eukalyptus bark and other alternative fuel materials (rice husk, RDF, saw dust)
Cement	Preparation and Burning of Alternative fuels	2009	Turkey	Isikent	Cimentas Izmir	A TEC has been contracted to perform a study for alternative fuel at this plant, including following: - maximum utilisation under present operating conditions for kilns 1+3 - maximum utilisation with preheater section modified - investigation of fuel transport and dosing system
Cement	Raw Mill	2009	Zambia	Ndola	Chilanga Cement	On site equipment quality assurance, erection supervision, commissioning supervision
Cement	Raw Mill	2009	Germany	Müs	Otterbein GmbH & Co KG	Study for optimization of rawmill
Cement	Cement Mill	2009	Indonesia	P 11	Indocement Tunggal Prakarsa	Hot gas duct from clinker cooler filter to cement mill
Cement	Clinker Cooler	2009	Syria		Adra Cement	Clinker cooler dedusting with HURRICLON®
Cement	Clinker Cooler	2009	Ukraine	YUG plant	OJSC YUGCement	A TEC was contracted to supply a HURRICLON® system for dedusting of the clinker cooler exhaust gas
Cement	Consulting	2008	Belarus	general	Belstroycenter	Development of the cement industry of the Republic of Belarus Management of investment projects (3 x 5.000tpd clinker & cement production lines)
Cement	Consulting	2008	Hungary	Kiralygyhaza	LAFARGE Cement Magyarorszag Kft.	EPCM for a new 750.000t/a cement plant
Cement	Consulting	2008	United Arabian Emirates	Dhafra	Al Dhafra Cement	Feasibility study for new cement production facility 5000 t/day clinker production Preliminary services for the installation of a 1 million tons per annum cement grinding plant
Cement	Consulting	2008	Russia	general	Strabag	Evaluation of cement plants in Russia
Cement	Consulting	2008	Russia	general	BaselCement	Due diligence study

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INDUSTRY	PLANT SECTION	YEAR	COUNTRY	PLANT	CLIENT	SHORT DESCRIPTION AND AIM OF THE PROJECT
Cement	Preheater	2008	Germany	Göllheim	Dyckerhoff AG	Study for opportunities to increase clinker productivity and production efficiency from 2.700 to 3.500 t/d on line 2
Cement	Preheater	2008	Indonesia	Holcim PT Semen Cibinong	Holcim Indonesia	Preheater modification (improvement of thermal efficiency), Installation splash box
Cement	Preheater	2008	Canada	Missisauga	Holcim Canada	Engineering for kiln inlet study
Cement	Preheater	2008	India	Karimnagar	Kesoram Industries LTD.	Supply of HV for stage No. 1 for pressure drop reduction
Cement	Preheater	2008	Guatemala	San Miguel	CEMENTOS PROGRESO	A TEC was contracted for the engineering and supply of a HURRIVANE® 1800 including dip tube for kiln 1, second stage cyclone.
Cement	Preheater	2008	Mexico	Orizaba	Holcim Apasco	Study to investigate increase of production at kiln 2, from 1.700 to 2.500 tpd clinker
Cement	Preheater	2008	Spain	Jerez	Holcim Espana	The scope of the work includes the plant investigation and technical evaluation of the existing top stage of the preheater tower with the aim to find possibilities to increase the separation efficiency of the installed Hurriclones®.
Cement	Preheater	2008	Egypt	Beni Suef	Beni Suef Cement	Pendulum Flaps
Cement	Preheater	2008	Bulgaria	Beli Izvor	Holcim Bulgaria	New single hot gas duct from HURRICLON fan to a new booster fan
Cement	Preheater	2008	India	Sidhee Plant	Gujarat Sidhee Cement Ltd	Modification of preheater for firing 100% high-sulfur containing petcoke and reduction of pressure drop of preheater system
Cement	Preheater	2008	Egypt	Assiut	Assiut Cement Company	Pendulum flap
Cement	Preheater	2008	Egypt	Assiut	Assiut Cement Company	Preheater modification kiln 2: Project management, process design, BE, DE, manufacturing, supervision of supply of equipment, supply of key equipment and transport of key equipment and plant investigation.
Cement	Preheater	2008	Egypt	Assiut	Assiut Cement Company	Tertiary air gate
Cement	Preheater	2008	Egypt	Assiut	Assiut Cement Company	Preheater modification kiln 3: Project management, process design, BE, DE, manufacturing, supervision of supply of equipment, supply of key equipment and transport of key equipment and plant investigation.
Cement	Bypass	2008	Bulgaria	Beli Izvor	Holcim Bulgaria	Chlorine bypass installation in order to be able to co-process fuel with higher content of chlorine
Cement	Bypass	2008	Poland	Malagoszcz	Lafarge Cement S.A.	Basic engineering for bypass dust transport system
Cement	Bypass	2008	Austria	Gartenau	Leube GmbH	Bypass - Take off chamber - Kiln 1
Cement	Preparation and Burning of Alternative Fuels	2008	Philippines	CEMEX Solid Cement	CEMEX Philippines	Study for preparation of Municipal Solid Waste (alternative fuel) on the landfill for the maximum utilization as substitute for coal in the CEMEX Solid Cement Plant

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INDUSTRY	PLANT SECTION	YEAR	COUNTRY	PLANT	CLIENT	SHORT DESCRIPTION AND AIM OF THE PROJECT
Cement	Preparation and Burning of Alternative fuels	2008	Bulgaria	Beli Izvor	Holcim Bulgaria	Alternative Fuel Study for lime hydrate production out of bottom cyclone meal chute
Cement	Raw Mill	2008	Turkey	Yozgat	Cimpor	HURRICLON for raw mill department
Cement	Raw Mill	2008	Philippines	Iligan Plant	Iligan Cement Corporation	A TEC has been contracted to install a HURRICLON® between the preheater fan and the hot gas dryer to dedust the hot gas before the raw material dryers. In addition, the company is converting the coal mill hot gas drying system from cooler exit gas to preheater exit gas, together with complete duct routing and HURRICLON® for dedusting of hot gas.
Cement	Cement Mill	2008	New Caledonia	Nouméa	Holcim New Caledonia	Replacement of existing cement mill cyclone through HU to improve efficiency
Cement	Cement Mill	2008	Zambia	Ndola	Chilanga Cement	Plant investigation for upgrade of Cement grinding mill system
Cement	Clinker Cooler	2008	Croatia	K. Sucurac	Dalmacijacement	Tertiary air duct & clinker cooler take off study
Cement	Predestusting Before Coal Mill	2008	Philippines	Iligan Plant	Iligan Cement Corporation	Conversion of coal mill hot drying gas system from cooler exit gas to preheater exit gas, complete tuct routing including special recirculation and HU for dedusting of hot gas
Cement	Predestusting Before Coal Mill	2008	Bulgaria	Beli Izvor	Holcim Bulgaria	Upgrade coal mill system
Cement	Coal Mill	2008	Macedonia	Skopje	Cementarnica Usje A.D.	A TEC has been selected to supply this plant with predestusting before coal mill with OPTICOAL® system and HURRICLON®.
Cement	Coal Mill	2008	Serbia	Kosjeric	Titan Cement Kosjeric	Plant investigation, process design, and technical evaluation of the recommended options for the conversion of the existing HURRICLON predestusting system to a modern state of the art OPTICOAL system
Cement	Coal Mill	2008	Macedonia	Skopje	Cementarnica Usje A.D.	A TEC has been selected to supply this plant with predestusting before coal mill with OPTICOAL® system and HURRICLON®.
Cement	Slag Mill	2008	Canada	Mississauga	St. Lawrence Cement Inc.	A TEC received the contract to supply four HURRICLON® to act as pre-collector between the preheater tower and slag mill in order to maximize dust removal prior to slag grinding.
Cement	Consulting	2007	Belarus	general	INVB	Study upgrade Belarus Cement Industry
Cement	Consulting	2007	Germany	Wössingen	Lafarge Zement Wössingen GmbH	Layout Study and planning works for Lafarge CTEC
Cement	Preheater	2007	Taiwan	Hualien	Taiheiy Engineering Corporation for Asia Cement Corporation	Supply of HVs for stage nr. 1 & 2 for pressure drop reduction installed with major preheater upgrade by Taiheiy Engineering Corporation
Cement	Preheater	2007	Austria	Retznei	Lafarge Perlmöser	Study for the usage of up to 100% alternative fuel and a capacity increase, reduction of Nox and emissions general
Cement	Preheater	2007	Italy	Merone	Holcim Italia S.P.A.	Calciner modification & NOx-reduction
Cement	Preheater	2007	Italy	Ternate	Holcim Italia S.P.A.	Calciner modification & NOx-reduction

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INDUSTRY	PLANT SECTION	YEAR	COUNTRY	PLANT	CLIENT	SHORT DESCRIPTION AND AIM OF THE PROJECT
Cement	Preheater	2007	France	Montalieu	Ciments Vicat	HURRIVANE® for preheater
Cement	Preheater	2007	Finland	Parainen	Finnsementi	Preheater study for increase of existing clinker production from 2.600 t/d to 3.000 t/d
Cement	Preheater	2007	Spain	Yeles	Holcim Espana	Preheater line #1 replacement parts
Cement	Preheater	2007	Austria	Wopfing	Wopfinger Baustoffindustrie GmbH	Production and erection - calciner modification
Cement	Preheater	2007	Austria	Gartenau	Leube GmbH	Engineering new preheater kiln 1
Cement	Preheater	2007	Italy	Piacenza	Industria Cementi Giovanni Rossi S.p.A.	Calciner modification into low NOx system
Cement	Preheater	2007	Italy	Augusta Plant	Buzzi Unicem S.p.A.	Study for NOx-reduction
Cement	Preheater	2007	Poland	Kujawi	Lafarge Cement S.A.	Pendulum flap Engineering for meal pipe
Cement	Preheater	2007	England	Rugby	CEMEX UK	Upgrade preheater step 1 + study step 2
Cement	Preheater	2007	Germany	Rohrdorf	Südbayerisches Portland-Zementwerk Gebr. Wiesböck & GmbH	Kiln modification
Cement	Preheater	2007	Egypt	Beni Suef	Beni Suef Cement	Preheater & calciner modification
Cement	Preheater	2007	Jordan	Rashadiyah	Jordan Cement Factories Company	Pendulum flap, Engineering for meal pipe
Cement	Preheater	2007	Jordan	Rashadiyah	Jordan Cement Factories Company	Preheater & calciner modification
Cement	Preheater	2007	Mexico	Orizaba	Holcim Apasco	Increasing the alternative fuel utilization in the new calciner and destruction of the Hydrocarbons, TSR from 5% to 30%
Cement	Preheater	2007	Poland	Malagoszcz	LAFARGE CEMENT S.A.	Pendulum flap, Engineering for meal pipe
Cement	Preheater	2007	Austria	Kirchdorf	Kirchdorfer Zementwerk	Pendulum flap
Cement	Preheater	2007	Austria	Vils	SCHRETTNER & CIE	Preheater upgrading
Cement	Preheater	2007	Romania	Uzina Medgidia	Lafarge Ciment	New meal diverter below next to last cyclone stage

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INDUSTRY	PLANT SECTION	YEAR	COUNTRY	PLANT	CLIENT	SHORT DESCRIPTION AND AIM OF THE PROJECT
Cement	Preheater	2007	Italien	Fanna	CEMENTIZILLO S.p.a.	Supply of compensators and engineering for splash box incl. Meal Pipe
Cement	Preheater	2007	Italy	Fanna	Cementizillo S.p.A.	Study for the increase of the capacity of pyro section (raw meal feed – preheater – calciner – kiln – cooler – exhaust gas handling) up to 2.700 tpd under consideration of new raw material composition
Cement	Preheater	2007	Mexico	Vito	LAFARGE	Replacement of the top stage cyclones and the required modification of the ducts and meal pipes
Cement	Preheater	2007	Austria	Mannersdorf	Lafarge Permooser GmbH	Study for modification of meal feeding to 5-stage precalcinator
Cement	Preheater	2007	China	Dingxiae	GUIZHOU DINGXIAE SHUI ON CEMENT LTD	Modification of calciner, lower preheater and cyclone, installation of sulfur meal curtain to make it possible to apply low-quality high-sulfur coal and anthracites fuel and reduction of pressure drop
Cement	Preheater	2007	Slovakia	Ladce	POVAZSKA CEMENTAREN	Feasibility study "Improved combustion of alternative fuels in calciner with reduced emissions"
Cement	Preheater	2007	India	Chandaria	Chandaria Cement Works Ltd	Preheater upgrade: cyclone modification, new HU, new burner chamber delivery key parts: pendulum flaps, TLD gates
Cement	Preheater	2007	England	Rugby	CEMEX UK	Plant investigation & modelling study for the improvement and proper functioning of the pre-calciner
Cement	Bypass	2007	Austria	Wopfing	Wopfinger Baustoffindustrie GmbH	Calciner modification and bypass installation for increasing to 1.300
Cement	Bypass	2007	Austria	Gartenau	Leube GmbH	Chlorine bypass system
Cement	Bypass	2007	Poland	Malagoszcz	LAFARGE CEMENT S.A.	Reduction of chlorine content in hot meal REDUCLOR bypass system from A TEC
Cement	Bypass	2007	Poland	Chelm	Cemex Polska	Modification chlorine bypass
Cement	Bypass	2007	Czech Republic	Prachovice	Holcim (Cesko) a.s.	Chlorine bypass system
Cement	Bypass	2007	Belgium	Lixhe - Vise	CBR Heidelbergcement Group	Supply of Hurrivane® and dip tube
Cement	Clinker Cooler	2007	USA	Lebec	NATIONAL CEMENT	Study for clinker cooler dedusting
Cement	Clinker Cooler	2007	Republica Dominicana	Paolo Amarillo	Cementos Cibao	Hurricon® for clinker cooler dedusting
Cement	Clinker Cooler	2007	Ukraine	Zdolbuniv	Volin Cement	Clinker cooler dedusting
Cement	Preheater	2006	Japan	Naha, Okinawa	TAIHEIYO ENGINEERING CORPORATION for RYUKYU CEMENT LTD	Reduction of pressure drop of top stage cyclone by retaining existing separation efficiency

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INDUSTRY	PLANT SECTION	YEAR	COUNTRY	PLANT	CLIENT	SHORT DESCRIPTION AND AIM OF THE PROJECT
Cement	Preheater	2006	India	Satna	BIRLA CORPORATION SATNA CEMENT WORKS LTD	Modification of preheater cyclones 2, 4 & 5 and riser tacts C5/C4, C4/C3 & C3/C2 + A TEC Splash box to reduce pressure drop and prepare preheater for later major modification
Cement	Preheater	2006	Malaysia	Negeri Sembilan Bahau	CIMA NEGERI SEMBILAN SDN BHD	Installation of special design splash box for improvement of mill distribution in riser tact
Cement	Preheater	2006	Poland	Kujawi	LAFARGE	Engineering for meal curtain and bypass take-off; delivery of the A TEC meal diverter gate
Cement	Preheater	2006	Austria	Mannersdorf	Lafarge Permooser GmbH	Pendulum flaps and meal diverter gate
Cement	Preheater	2006	Austria	Kirchdorf	KIRCHDORFER	Tertiary air duct engineering and optimization of the preheater for NO _x reduction
Cement	Preheater	2006	Pakistan	Karachi	DEWAN CEMENT	Preheater modification
Cement	Preheater	2006	Egypt	Assiut	ASSIUT CEMENT COMPANY	Preheater modification
Cement	Preheater	2006	Austria	Wietersdorf	WIETERSDORFER & PEGGAUER	Conversion of existing LEPOL kiln to a preheater tower with precalciner system Increase of production efficiency between 1400 and 1600 t up to 2200 t (A TEC Splash Box, A TEC AIRSTOP Kiln Seal 3.8 m diameter)
Cement	Preheater	2006	Italy	Cagnano Amiterno	SACCI	Preheater study
Cement	Preheater	2006	Italy	Rassina	COLACEM	Capacity increase of clinker production from 2750 t/d up to 3150 t/d Calciner III, IV
Cement	Preheater	2006	Mexico	Apaxco	CEMENTOS APASCO	Increase of separation efficiency and production,
Cement	Preheater	2006	Mexico	Apaxco	CEMENTOS APASCO	Reduction of specific heat consumption & preheater exhaus gas temp. and increase of separation efficiency and production,
Cement	Preheater	2006	Ecuador	Otavalo	SELVA ALEGRE	New dip tube + HURRICLON® at top stage and stage 2 (production increase: + 72 t/d)
Cement	Bypass	2006	Slovakia	Rohoznik	HOLCIM SLOVENSKA	Chlorine bypass system
Cement	Bypass	2006	Poland	Kujawi	LAFARGE	Chlorine bypass system
Cement	Bypass	2006	Czech Republik	Prachovice	HOLCIM	Bypass study
Cement	Bypass	2006	Austria	Wietersdorf	WIETERSDORFER & PEGGAUER	Delivery of quenching chamber
Cement	Preparation and Burning of Alternative fuels	2006	Spain	Alicante	Cemex Espania	Study preheater & calciner upgrade + alternative fuel

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INDUSTRY	PLANT SECTION	YEAR	COUNTRY	PLANT	CLIENT	SHORT DESCRIPTION AND AIM OF THE PROJECT
Cement	Preparation and burning of alternative fuels	2006	Austria	Wietersdorf	WIETERSDORFER & PEGGAUER	Alternative Fuel: Research project for mechanical garbage separation
Cement	Raw Mill	2006	Zambia	Ndola	CHILANGA CEMENT	Optimization of raw mill system
Cement	Raw Mill	2006	Scotland	Dunbar	LAFARGE CEMENT UK	Turn key dust abatement and process optimization project
Cement	Raw Mill	2006	Pakistan	Karachi	DEWAN CEMENT	Capacity increase
Cement	Cement Mill	2006	Turkey	Darica	LAFARGE ASLAN CIMENTO	HURRICLON® mill circuit
Cement	Clinker Cooler	2006	Cuba	Cienfugos	Cienfugos Cement	Clinker cooler dedusting
Cement	Clinker Cooler	2006	Kazakhstan	Shymkent	SHYMKENTCEMENT	HURRICLON® for clinker cooler dedusting for 4 kiln lines incl. engineering for ducting and equipment
Cement	Clinker Cooler	2006	Korea	Okyie	LAFARGE HALLA CEMENT CORPORATION	Replacement of rather low efficient maintenance-intensive Noric Multicyclones before power generation boiler with HU for maintenance-free operation and improvement of efficiency
Cement	Clinker Cooler	2006	Pakistan	Hattar	DEWAN CEMENT	HURRICLON® for clinker cooler dedusting
Cement	Clinker Cooler	2006	France	Frangey	LAFARGE CIMENTS	HURRICLON® for clinker cooler dedusting
Cement	Clinker Cooler	2006	France	Bussac	CIMENTS CALCIA	4 pc. HURRICLON® for clinker cooler dedusting
Cement	Predestuffing Before Coal Mill	2006	Philippines	Teresa	FR CEMENT CORP	Conversion of coal mill hot drying gas system from cooler exit gas to preheater exit gas, complete tuct routing including special recirculation and HU for dedusting of hot gas
Cement	Predestuffing Before Coal Mill	2006	Philippines	Bulacan	REPUBLIC CEMENT	Conversion of coal mill hot drying gas system from cooler exit gas to preheater exit gas, complete tuct routing including special recirculation and HU for dedusting of hot gas
Cement	Predestuffing Before Coal Mill	2006	Philippines	Mapulop	FORTUNE CEMENT CORPORATION	Conversion of coal mill hot drying gas system from cooler exit gas to preheater exit gas, complete tuct routing including special recirculation and HU for dedusting of hot gas
Cement	Slag Drying Plant	2006	Austria	Mannersdorf	Lafarge Perlmoozer GmbH	Turn Key Installation of a Slag Drying Plant with a fluidizing bad dryer
Cement	Slurry Drying Plant	2006	France	La Cadière d'Azur	SETIMEP	2 pc. HURRICLON®
Cement	Chromat Reduction System	2006	Slovenia	Trbovlje	LAFARGE CEMENT DD	Reduction of Chromium VI+ in cement
Cement	Preheater	2006	USA	Exshaw	Lafarge	HV for Top stage Zyklone

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INDUSTRY	PLANT SECTION	YEAR	COUNTRY	PLANT	CLIENT	SHORT DESCRIPTION AND AIM OF THE PROJECT
Cement	Preheater	2006	CUB	Guabairo	Cementos Cienfuegos	8 HV + eng. für 4 HU 1600 ST
Cement	Consulting	2005	Pakistan	Hattar	DEWAN HATTAR CEMENT LTD (former SAADI CEMENT LTD)	Plant study of production Line Nr. 1 to locate efficiency deficiencies of pyro system, raw mill, coal mill, cement mill circuits, raw materials and fuels and recommendations for improvements