

## Reference List – Cement Industry Selected Projects

Our most relevant projects have been selected and are presented in the following slides.

For more information please contact us at  
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## Reference List – Selected Projects Cement Industry



### Arawak Cement Company, St. Lucy, Barbados

On-site process assistance including in the raw grinding shop, pyroline and cement mill . Resolved preheater feed shelf buildup situation; provided maintenance guidance in the clinker cooler; modified preheater cyclone inlet duct during summer shutdown.



### Argos, various locations

CAPEX studies: for two new lime plants and for conversion of a cement line to lime production. Technical Feasibility Study for sizing cement production line; maintenance and reliability studies for two plants in the U.S.; conceptual, feasibility studies and basic engineering for a new line.



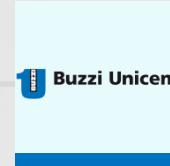
### Ash Grove Cement, various locations

Feasibility studies and preparation of bid documents for: major process equipment for new 1,000,00 tpy clinker line and 6800 HP finish mill installation. Mods of raw material silo hoppers, vibrating screen, etc.



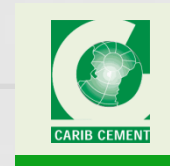
### Birlık Cimento A.S., Denizli Turkey

Feasibility study for a Greenfield plant including market study, evaluation of raw materials, bid specifications for major process equipment and capital cost estimates.



### Buzzi Unicem, various locations

On-site process assistance: kiln performance issues, deficiencies in the firing system. Process audit of the clinker cooler. Investigated cement mill venting performance and conducted internal inspections of classifiers.



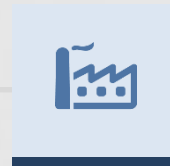
### Caribbean Cement Co. Ltd, Kingston, Jamaica

Conceptual process design and layout, bid docs for major process equipment, detail electrical, structural & mech engineering for a new 2850 mtpd clinker production line. On-site Process Assistance. Feasibility Study for Plant Expansion. Complete plant audit.



### Capitol Cement, Martinsburg, West Virginia

Feasibility Study for the modernization of the plant.



### Cementos Bolivianos S.R.L., Bolivia

Design Criteria for a new cement plant in Sayari, Bolivia.



### Cementos Progreso, San Miguel, Guatemala

Feasibility Study for a Greenfield 1.5 million MTY cement plant. Conceptual and Feasibility Studies for the installation of a Waste Heat Recovery system. Valuation of San Miguel Plant.



### Cemex, various locations

Feasibility Study for plant expansion/preliminary Capital Cost Estimate. Complete process design from conceptual through final. Conceptual Engineering for waste fuel receiving storage, processing and shipping operations: truck and unloading facilities, grinders, duplex strainers, etc.



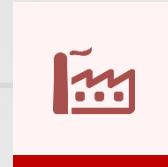
### City Cement, Riyadh, Saudi Arabia

Conceptual overview of new production line capacity.



### Confidential Client, South Africa

Conceptual Feasibility and Bankable Feasibility Studies for a Greenfield cement plant in the Democratic Republic of Congo.



### Col. I.O. Nixonah, Nigeria

Engineering for a 500 MT cement clinker grinding and bagging facilities.



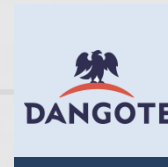
### Continental Cement, Missouri, USA

3500 tpd plant expansion – new kiln line and finish mill. Valuation of facility for purchase by new owner. Feasibility Study of joint venture with Chemical Lime. Feasibility Study of new kiln line. Maintenance and Reliability audits. Utilization of Solid Waste Derived Fuels Study.



### CTG Italcementi (Essroc), West Virginia

5000 MTD plant expansion: mechanical and civil/structural engineering for pyro line with dual string preheater tower, raw mill circuit, blending silo, dual cement vertical mills, all process ductwork, all dedusting ducts, chute work and plant utilities.



### Dangote, Nigeria

New Cement lines: review of EPC contractor's engineering for several cement plants in Africa.



### Dragon Products, Inc., Thomaston, Maine

Conversion of 1500 tpd wet process to 2100/2500 tpd 4-stage preheater/calcliner: new equipment and conceptual and final design including value engineering, procurement and construction management.



### Giant Cement, Harleyville, South Carolina

Capital Cost Estimate for plant expansion.



### Grupo Gloria S.A., Arequipa and Puno, Perú

Feasibility study to upgrade Yura's Arequipa plant from 650,000 to 1,000,000 mtpy. Process study to convert Yura's rotary cement kiln to a lime kiln. Conceptual Study to convert two of Cementos Sur's vertical clinker kilns to lime production, including process, mechanical and CapEx estimates.



### GSO Capital Partners, London, England

Full Report on the overview of the operating conditions of three cement plants and other assets in the U.S.A. First pass Due Diligence of the assets of several cement plants in Europe and valuation of cement plants.



### H2H Associates, New York

Cement process and mining consulting for an Argos cement plant project in the United States.



### Illinois Cement, LaSalle, Illinois

Clinker production increase from 1800 stpd to 3000 stpd.



### Kuwait Cement, Safat, Kuwait

Complete civil/structural engineering from ship unloader to finish mills; project management; site construction management; procurement assistance; mechanical and electrical review of vendor drawings and documents. Valuation of the Shuaiba Plant.



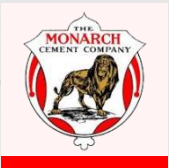
### Lafarge North America Inc., Calera, AL

Study to partition the Blue Circle lime facility from the cement operation.



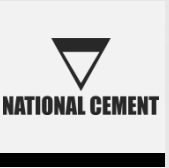
### Loma Negra, Olavarria, Argentina

Balance of plant preliminary engineering including preparation of bid packages. Balance of plant final engineering for complete plant: mechanical / electrical engineering for support facilities; two overland conveyors; turnkey supply 75,000 mt dome.



### Monarch Cement, Humboldt, Kansas

Process, Conceptual and Final Engineering, Construction Observation, start-up and commissioning. Assistance for upgrade and doubling of capacity of an existing 2-kiln system.



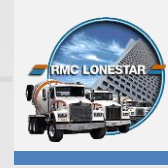
### National Cement, Ragland, Alabama

Conceptual engineering and capital cost estimate for three capacity alternatives associated with a new kiln line.



### Puerto Rican Cement, Ponce, Puerto Rico

Preliminary Study for lime plant and packhouse.



### RMC Lonestar, USA

Valuation of Royal Cement



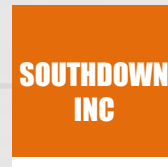
### Qatari Investors, Qatar

Root cause analysis investigation into the failure of cement gear boxes at the AlKhalij Plant.



### Raysut Cement Co., Sultanate of Oman

Complete civil/structural engineering for a new kiln line from the primary crusher to cement loadout: supplied basic engineering and coordination among vendors.



### Southdown, Victorville, California

Cement Plant Valuation.



### St. Lawrence Cement, Catskill, New York

Evaluation study to upgrade the plant with two-stage preheater and power plant.



### Siam Cement Co., Thailand

Detailed civil/structural engineering & procurement assistance for 3 two-string preheater towers and associated works, including stacks and process ductwork.



### Tanga Cement Company, Tanzania

Engineering for a coal firing system.



TRINIDAD CEMENT LIMITED

### Trinidad Cement Ltd., Claxton Bay, Trinidad

Feasibility Study for a new 1200 mtpd clinker production line. Feasibility Study for a new finish cement grinding plant. Conceptual and Final Engineering to upgrade the Mayo Quarry. Complete technical audit of the Claxton Bay Plant.



### Universal Cement (OZINGA), Chicago, Illinois

Review of Concept and Cost Estimates for a new cement plant.



### Yanbu Cement, Saudi Arabia

Electrical instrumentation and automation bid review and supplier selection for a new kiln line.