

Cement Consultancy Associates



Cement Sector Consultancy
Capability and Experience





Profile

Cement Consultancy Associates Limited (CCA) is a UK-registered multi-disciplinary consultancy and service company providing professional advice and assistance to clients involved in the international cement industry.

The company and its personnel have specific expertise in all aspects of the promotion and management of cement projects. This expertise includes the evaluation and assessment, independent audit, pre-feasibility and bankable feasibility analyses of cement and lime projects on a worldwide basis. In addition, senior CCA consultants have many years' experience and hands-on knowledge of the management and opera-

tion of cement manufacturing plants.

The collective experience of CCA consultants enables the company to offer a comprehensive package of technical and project managed services to its clients. Such clients include multi-national cement companies, financial institutions and banks, multi- and bi-lateral donor agencies, engineering contractors, consulting groups, government agencies and state corporations.

Cement projects have been successfully completed in over 30 countries worldwide in the



past 10 years. The location of projects ranges from the desert environments of North Africa and the Middle East, to the tropical areas of East and West Africa, the distant regions of Asia and the far East, and the arctic terrains of Scandinavia and the Commonwealth of Independent States (CIS).

Services

Cement Consultancy Associates Limited services encompass the following principal aspects of the cement industry:

- Data studies and reviews
- Project evaluations and audits
- Process plant design and planning
- Project financial analyses
- Plant production and efficiency studies
- Maintenance protocols

Additionally, Cement Consultancy Associates possess the qualifications and experience to undertake:

- Integrated multi-disciplinary project feasibility studies
- Project management of rehabilitation, expansion and new cement plants
- Investment and acquisition promotion
- Manpower and technological training assignments
- Expert witness representation

Cement Consultancy Associates and its partners are also able to offer a range of specialist services to the cement industry. These include:

- Contracting services and equipment supply
- Raw material investigations and analytical services
- Alternative fuels and waste management
- Environmental assessment and implementation of management systems

Consultancy services are available to meet the precise needs of clients in all fields of the cement and lime sectors, on a fully international basis.

Organisation

CCA provides a fully integrated and comprehensive suite of services to the cement industry, governments and financial institutions, through the activities of its principal constituent divisions.

The **Consultancy Services Division** provides advice, support and management services to the international cement industry in all aspects relating to the development, manufacturing and marketing of cement and lime products.

The **Technical Services Division** provides specialised services to clients in the technical, procurement, logistics and management of cement and lime project investments.

CCA is also able to advise and assist clients in identifying, sourcing and procuring project financing, commissioning and in the development of all types of cement, and in the troubleshooting of existing cement plant operations.

REFERENCES AND QUALIFICATIONS

CCA consultants have over 35 years of continuous service to the cement industry on all continents.

The Company and its Directors and Consultants are affiliated and long-standing members of the internationally recognised professional institutions. These include:

- Institution of Mechanical Engineers
- Institute of Quarrying
- Institution of Electrical Engineers
- UK Register of Expert Witnesses
- Council of Engineering Institutions (UK)
- Institute of Management

Consultants hold the qualifications of Chartered Engineers and Euro-Engineers.

Global experience

Our consultants have experience of operating in many countries and regions of the world. Consultancy activities have been successfully accomplished in harsh arctic climates, the mountainous areas of Central Asia and South America, the tropical rainforest environments of West and Central Africa

and the Far East, and the arid desert terrains of North Africa and the Middle East.

Operating from United Kingdom headquarters, CCA consultants and their associates have a particular knowledge and experience of many European, African, Middle Eastern, Central Asian and Far Eastern countries, their culture and language. Technical and management personnel have language skills in English and French and a basic knowledge of Arabic and Russian, allowing them to operate effectively in most areas.



Project services

CCA offers a range of professional services to its cement industry clients. These services are available as individual fields of expertise or are frequently tailored to meet precise project requirements.



Data studies and reviews

- Technical data research and reviews of studies

Project evaluations and audits

- Plant and greenfield property evaluations
- Due diligence investigations
- Independent audit assessments

Process plant designs and planning

- Determination of raw material reserves
- Quarry design and planning
- Selection and optimisation of production process
- Process description and flowsheet generation
- Specification of operating conditions, utilities and service requirements
- Materials and energy balance, conservation and optimisation
- Sizing, specification and selection of major process equipment
- Organisation and manpower schedules

Project financial analyses

- Preliminary and budget cost estimates
- Definitive and target cost estimates
- Capital and operating cost estimates
- Cashflow analysis (DCF), conceptual and feasibility appraisals
- Deterministic sensitivity analysis and probabilistic simulation
- Technical and economic audits and valuations (NPV, IRR, payback, etc)

Project management

- Tender documentation and procedures
- Tender evaluations
- Contract negotiation
- Design audits
- Construction management
- Site supervision
- Start-up and commissioning arrangements
- Training

Plant operation and efficiency studies

- Operational management and specialist engineering services
- Production efficiency studies
- Manpower and procedures rationalisation
- Maintenance protocol

Management

- Review and audit of corporate or plant management and operations
- Senior corporate advisors to cement company or financial institution management on all aspects of the cement industry

Consultancy assignments

Typical assignments undertaken in which combinations or packages of technical services have been tailored to the precise project requirements are described on the next two pages.

INTEGRATED MULTI-DISCIPLINARY PROJECT FEASIBILITY STUDIES

Typically, CCA can be involved in the feasibility assessment of projects from an early stage. This usually includes the research and review of relevant data sources and background information, and the design and execution of a phased approach to the required task. After the completion of each sequential phase of investigation, an evaluation of results versus expectations is undertaken upon which to set new objectives, justify further expenditure, and allow a decision to be made on the continued investigation of any proposed investment.

Raw material studies incorporate information from the resource assessment to establish a material reserve, which forms the basis for a quarry design and plan, and the selection and optimisation of the extraction methods. The plan acts as the basis for the equipment selection and specifications, utility and service requirements, and for the calculation and optimisation of production scheduling and outputs.

Production studies involve establishing a process flow sheet and design characteristics for process plant engineering. These studies aim to determine the specification of the operating conditions, the materials and energy balances and optimisation, manpower, service and utility requirements, and the sizing, selection and specification of all items of major equipment.

The **feasibility analysis** of the project addresses the marketing and economics of the proposed cement plant including product suitability and specification, product handling and transportation, either direct to consumers or to distributors. The demand for the product/s is established at current day rates and projected to that at the estimated time of project start-up and throughout the

project life. The price structures of the products are researched to understand past, current and future predicted trends, so that a justified sales price for the products can be established and used in the financial assessment of the project.

The **hydrology** of the plant site needs to be established to identify the sources of water required for the processing plant facilities and potable supply.

Environmental baseline studies usually start during the early phases of investigations to allow information to be collected over a prolonged period, and culminate in an Environmental Impact Assessment (EIA) study for incorporation into the project feasibility analysis. The fields of environmental activity may include: air quality and pollution, water quality and pollution, dust, ecology, archaeology, landscape assessments and impacts, noise, solid waste disposal, land contamination and reclamation.

All multi-disciplinary elements of the progressive investigation of the project are brought together in the **financial analysis** of the feasibility assessment. This involves the projection of a saleable product revenue stream derived from the plant output production schedule, and price forecasts over the expected life of the project. Project capital and operating (fixed and variable) and administrative costs are estimated for all aspects of the production requirements, in order to produce a series of cashflow forecasts for the operation, based on various production rates and other financial attributes. The cashflow is used to calculate Net Present Value (NPV), Internal Rate of Return (IRR), etc., and forms the basis for sensitivity analysis calculations to quantify the effects of a percentage change in the project variable factors.

PROJECT MANAGEMENT OF NEW PLANTS OR EXPANSION PHASES OF EXISTING PLANTS

CCA consultants have extensive experience of managing projects on behalf of cement industry clients. These projects have varied from the planning, managing and execution of minor works to the management and supervision of all development and construction phases of greenfield projects, and the contract management of production and maintenance activities.

In a typical example, CCA was commissioned to undertake the planning, management and execution of a major greenfield development in a desert area in South Yemen. The company acted as the engineering consultant and project manager for a new privately financed turn-key investment with equipment sourced from China. The main contractor was Chinese and the project was designed for a 'fast track' result, permitting the owner to establish a foothold in the cement market in record time.

The project scope of services provided by CCA started with the feasibility stages of the venture and continued through to the plant installation and start-up.

Phase I comprised the preparatory work involved in establishing a main supply contract with the preferred main contractor and sub-contractors.

Phase II covered the project implementation period from the main contract effective date to plant completion and provided for construction

supervision and plant acceptance procedures, including:

Detail engineering:

- Project management, planning, scheduling
- Design checks

Equipment manufacturing control:

- Equipment inspection

Supervision of construction:

- Site management
- Civil, mechanical, electrical erection supervision

Supervision of start-up and commissioning:

- Tests on completion and performance tests

Training arrangements:

- Training

Warranty period:

- Warranty services



MANPOWER AND TECHNOLOGICAL TRAINING ASSIGNMENTS

Manpower development has become an increasing component of all CCA's major contracts, particularly with regard to donor agency projects and government assignments in developing countries. CCA consultants have extensive experience of providing manpower development and technological transfer services to industry professionals and to government representatives involved in the cement industry.

Manpower development programmes usually encompass:

- Direct training courses, seminars and workshops at the recipient organisation
- On-the-job training of practical disciplines
- Short-term secondments and participation programmes in operating cement production facilities
- UK-based training courses

EXPERT WITNESS REPRESENTATION

CCA consultants have extensive expertise in providing expert witness representation on behalf of clients involved in the cement and quarrying industry, as well as governments and their agencies and international donor organisations.

Legal services provided include:

- Technical and expert witness evidence
- Assessment of contractual liability
- Arbitration
- Accident investigation and safety advice
- Compliance and revision of cement industry legislation and safety codes

Support services

CCA maintains professional business relations with other CCA associated and partner companies and several specialised industry service companies, who are able, as needed, to compliment and support the work tasks undertaken by CCA and its clients. These companies include:

VAV ENGINEERING

VAV Engineering, the engineering design office of CCA, is a private Romanian company established by highly qualified engineers with over 20 years experience in the design and execution of production machinery and equipment for cement plants.

The Company's engineers have worked in some of the most important Romanian companies designing or manufacturing equipment and have taken a direct role in the research and design activities, execution, commissioning and operation of many cement plants built in Romania including Medgidia, Tasca, Fieni, Hoghiz, Alesd, Tg. Jiu and Campulung. Overseas assignments in Syria, Pakistan, China, Lebanon, Iraq, Egypt and Iran have been successfully completed.

For these projects the company's engineers were engaged as project managers or specialised design engineers.

VAV specialises in the design of main equipment for the cement manufacturing sector including:

- rotary kilns
- grate coolers
- hammer mills
- dryers
- grinding mills
- bag filters
- crushers
- conveyors.

The company is also active in the design of steel structures.



THE CEMENT REGISTER

The Cement Register supplies managers and supervisory staff on contract to bring know-how to operations and special projects, or to provide additional resources to fill unexpected or prolonged absences. This service draws on an extensive database of senior managers and experienced executives.

Cement Plant Operation and Maintenance Contracts with experienced production and engineering personnel is the expertise of CERCOM.

GRAHAM WALKER ASSOCIATES LTD

GWA Ltd are macro-economic consultants providing high level input to governments and donor agency support programmes through internationally financed agency programmes.

AGGCEM

CCA draws aggregate industry support when required from this company specialising in aggregate, tarmac and concrete products' production and sales throughout the world.

Cement and lime industry experience

CCA consultants and personnel have extensive international experience in the investigation, development, processing and management of a wide range of cement and lime industry activities. A short description of some of these projects is given below.

Yemen – Greenfield cement plant (Union Cement Company)

CCA is the consultant and project manager for this greenfield privately financed turnkey 3,000 tpd cement plant project. The main contractor is Chinese with equipment also sourced mostly from China. CCA's scope of services included feasibility study, plant installation, start-up, commissioning and acceptance trials.

Middle East – Lime plant

CCA were engaged as an independent international consultant to review the market study and business plan prepared for the establishment of a new lime plant. Tasks involved determining the current viability of the proposal and preparing a revised business plan.

Yemen – Yemen Government

CCA is the consulting engineer and project manager for a 2,500 tpd new kiln line and an

800 tpd wet to dry process conversion that involves a new kiln line with a nominal 2,500 tpd clinker capacity.

EU – Confidential client

Consulting engineering, procurement tasks and assistance with permit procedures for the entry of a new company into the cement supply sector. Establishment of a new clinker grinding plant and support services.

Nigeria – Cement company

Preparing project pre-feasibility study for re-activating an old cement works together with the provision of a new fully integrated 0.8m tpa production plant.

CCA is providing consulting engineering services and project management services to local clients and assisting with the arrangements for multi-layer project financing.

Albania – Conversion of wet process to dry process plant (Seament)

Project engineering services for converting and expanding a 600 tpd wet kiln process plant to a 2,000 tpd dry precalciner plant. The scope of services involved pre-feasibility and feasibility studies, project financing arrangements and detail engineering.

Also, a separate raw material and site investigation project was carried out in conjunction with the project engineering activity. Supplementary tasks involved preparing Environmental Assessments and developing an Environmental Management Programme.

Management and project staff recruitment and training programmes were additionally undertaken.

Lebanon – Conversion of white cement plant to grey cement plant (Middle East Cement)

Consulting services to develop the conversion and expansion concept for a change of kiln process from a 500tpd white clinker kiln line to a 1,500tpd grey clinker kiln line with associated changes to raw milling and cement milling arrangements. Tasks involved raw material investigations, quarry and crushing methods, and blending and homogenising investigations integral to the process change. Also included were design and specification of the kiln and mill equipment, project implementation arrangements, economic appraisals, project monitoring and reviewing contractor performance.





Malaysia – Greenfield 1.2m tpa cement plant (Pahang Cement)

Consultancy supplied to the owner of new cement plant built on a greenfield site as a turn-key contract by a consortium of three international contractors.

The engineering phase involved supervising and reviewing engineering design, overseeing strict application of the contract, assessing local fabricators and giving ongoing training to local engineers. The construction, start-up and acceptance phase as chief resident engineer involved monitoring progress and co-ordinating and overseeing contractors' activities.

United Kingdom – Major works expansion: 1.3m tpa conversion project

Consultants co-ordinated the technical aspects of the major works upgrade of a new 1.3m tpa cement plant, retaining wet process preparation for a state-of-the-art kiln process based on the innovative crusher-drier/preheater configuration. The two-stage, single stream preheater incorporates the multi-stage combustion calcining process with pulverised fuel being injected directly into the calciner.

Ireland – 600,000 tpa greenfield cement plant (Lagan Cement)

Technical review and the identification of potential specific risks

in respect of a new 1,800 tpd kiln on-going project on a greenfield site. The scope of services addressed raw materials, planning approval and operational licenses, building contracts and equipment sourcing contracts, specifications, plans and drawings, site and ground conditions, design, construction and commissioning programmes, insurance, key man risks and operational variables.

Angola – Conversion of slurry mill to closed circuit cement mill (Scancem)

The project involved the conversion of an existing slurry mill to a closed circuit cement mill. The project was to add cement-grinding capacity by converting the existing slurry mill to a closed circuit cement mill having a capacity of 120 t/h. The equipment supply for this conversion project included clinker reception from the port stockpile; gypsum transport to the installation from the present gypsum feed arrangements; mill rehabilitation and modifications; and finished product transport to the existing storage silos. A facility to feed the converted mill with clinker from the kiln lines was also required.

Pre-project services provided included assessment of the suitability of converting the existing raw mill into a closed circuit cement mill, including comparing investment costs with an alternative solution of a new grinding mill system. The investment assessment included all costs (civil, mechanical, electrical/instrument/process control, training etc) and also evaluated operational constraints.

Azerbaijan – Industrial privatisation programme (IFC)

Leaders were responsible for developing a feasibility study for a privatised cement company. The project involved assessing plant operations with regard to raw materials, product quality, operating conditions and the physical condition of machinery and equipment. The study covered compliance with standards; rules and regulations concerning environmental protection and occupational safety and health; identification of priority measures for investment; reorganisation; and formulating the development strategy.

United Arab Emirates – Greenfield 1m tpa cement plant (ABC)

Consultants were asked to advise a major international bank on the proposed new plant following a request for financing from the project sponsors. Raw material investigations, general technical specifications, capital costs, the market and production costs were analysed and recommendations were made for changes to the scope of the equipment supply so that the project would meet the investor's criteria. Project agreements and definition of responsibilities between various contractors were established to ensure smooth project execution.

Jamaica – Strategic operational plan (IFC)

Project manager in charge of a study defining the future operational strategy for a cement company in the Western Caribbean, including a capacity expansion phase to increase output to 1m tpa and the design and development of distribution

terminals within the CARICOM region.

Tanzania – Rehabilitation programme for cement sector (Ministry of Industries & Trade)

Project directors in charge of implementing a multi-million five-year rehabilitation and expansion project for the cement sector. Consultants were involved in the overall formulation, the preparation of annual operational and multi-annual indicative programmes, project identification, project execution and evaluation, and on-going monitoring.

United Kingdom – Transportation study (Private Company)

Consultants to a multinational corporation to identify developments in the UK transport sector for raw materials and market opportunities in road and rail transport arrangements. A rail-based logistics solution was developed for introducing new raw materials from distant sources.

Indonesia – Raw material investigation

Consultants to an Investment Bank to review geological field-work and interpret the chemical analysis of material samples, and to make a recommendation for cement manufacturing.

Uganda – Modernisation of the cement industry (EIB)

Team leader of a study to examine the structure and performance of the cement industry and to prepare a programme for management and technical assistance.

United Kingdom – Study of staffing levels and remuneration schemes (Private Company)

Team leader reviewing working practices of plant, transport and administrative personnel at seven cement works, and introducing changes to establish a stable income plan for all employees.

Angola – Management development plan, cement company (ADB)

Team leaders in charge of a team preparing a management plan and a management contract for technical assistance. The project involved identifying strengths and weaknesses in the existing organisational structure, production planning and control procedures, manpower development and sales and marketing facilities, preparing a short- and medium-term development plan and negotiating a management contract.

Tanzania – Cement industry rationalisation (Ministry of Industries & Trade)

Project co-ordinator responsible for a multi-disciplinary planning team preparing an economic recovery and integration programme for the cement and other non-metallic minerals sector. The study involved sector analyses, project evaluation and the formulation of a five-year investment programme based on donor's contributions.

United States – Logistics study for refractory manufacturer (Private Company)

Consultants to determine the logistics applicable for developing a new limestone deposit and to specify and cost handling and transport equipment requirements depending on the process technology adopted.

Philippines – Rehabilitation programme, cement plant (Development Bank)

Project manager in charge of assessing and specifying machinery and equipment for rehabilitation and expansion, cost/benefit analysis of wet and dry process systems, and negotiating for project funding.

Ireland – Reclassification of industrial minerals programme (Private Company)

Adviser to a limestone quarrying company on the impact that changes in the Government's scheduled mineral classifications would have on its environmental compliance and monitoring.



Coal and kiln firing

CCA can provide an integrated coal consulting service to the international cement industry, covering the evaluation, design and implementation of coal, pet coke and lignite kiln firing projects.

The combination of technical, financial and management capability (including experienced 'hands-on' production management of coal firing operations) enables CCA to provide clients with a complete service from initial evaluation through to detailed feasibility level, including professional advice and troubleshooting for the installation and operation of coal firing plants, and management services.

The services provided by CCA and its associates include:

- Selection of coal preparation requirements
- Coal preparation facility engineering
- Auxiliary facility and equipment engineering
- Location of all facilities
- Preparation of feasibility studies and bankable documents for financing
- Coal economics and marketing studies
- Preparation of permitting documents
- Design and preparation of operational and maintenance procedures
- Recruitment and training
- Project management

CCA consultants have been involved in a large number of diverse coal and kiln firing assignments. Selected projects in which CCA consultants have been directly involved, where the impact of coal/pet-coke usage on the manufacturing process and on the environment is a factor, are described below:

Yemen – Yemen Government

CCA is supplying consulting services for executing complete multiple burning systems in three cement plants. The scope of services includes studying the feasibility of using imported coal to replace existing HFO as a primary fuel, and using solid and liquid wastes as a secondary fuel. Complete consultancy services follow, for implementing a coal import facility, two coal drying, milling and firing systems on two existing plants plus waste handling and burning systems at three plants.

Jamaica – Caribbean Cement

An environmental audit was carried out at this cement works under the supervision of the Consultant in response to a request from the IFC. The audit was performed under a procedure based on terms of reference from the IFC and covered kilns fired by oil, coal and petcoke. The project involved a baseline study, mitigation measures, an

action plan and formulating a comprehensive environmental management plan.

Philippines – PCIA

Our consultants were engaged in the government's oil to coal conversion project for the simultaneous coal/petcoke firing conversion of seven cement companies throughout this Asean archipelago. The extensive and ground-breaking project embraced the specification and implementation of indirect and semi-indirect coal drying and firing plants for both wet and dry process kilns.

Ireland – Lagan Cement

A technical review was performed for the banking institutions who were part funding the construction and installation of a 600,000 tpa cement plant. The review procedure specifically addressed the potential risks in respect of the environment and the emissions to air derived from kiln firing practices.

Malaysia – Tasek Cement

An investigation into the problems of an inert gas indirect coal firing installation and recommendations for modifications to overcome the problems.

United Kingdom – Rugby Cement

An extensive technical audit and manufacturing process review of five cement works was undertaken to examine its production base.

Australia – Cockburn Lime

Turnkey project for the conversion of existing raw material ball mill for coal firing of preheater lime kiln.

Lebanon – Middle East Cement

Consultancy services for vertical coal mill and kiln burner supply and operation.

Norway – Norcem Cement

Specification and supply of coal unloader and transport systems.

Alternative fuels



The use of alternative waste fuels in cement kilns as part of a total fuels strategy will have significant financial benefit for cement plant operators. The transition to the use of alternative fuels, however, needs careful consideration, analysis, management and technical support to implement the various stages required to realise the full potential of this valuable fuel source in the 21st century. Cement Consultancy Associates has the expertise to provide a range of professional and technical services to assist operators in the smooth transition of an alternative fuels policy into the day-to-day operation of a cement plant.

CCA can assist owners and plant operators in total waste fuels management and by the development of an alternative fuels strategy in the following ways:

Total waste fuels management

- Sourcing of waste streams suitable for fuels
- Processing of wastes into fuels
- Quality assurance
- Waste fuels implementation and plant operation
- On-going support and training

Development of an alternative fuels strategy

- Survey and analysis of waste streams
- Process analysis and kiln performance modelling
- Specifications for waste fuels
- Feasibility studies and cost-benefit analysis
- Environmental studies and impact assessments
- Quality control procedures
- Design of fuel reception, storage, blending and dosing systems
- Specifications for the process, equipment, control system philosophy
- Operational trials of waste fuels
- Operational procedures and safety training
- Liaison with local communities and national authorities

Project management

- Overall management of waste fuels projects
- Project engineering
- Procurement management
- Site supervision

CCA consultants have international experience in the investigation, development, processing and management of alternative fuels. They have:

- Developed strategies for fuel cost reduction using waste fuels
- Designed, constructed and commissioned all types of waste fuel installations
- Converted cement plants from 100% fossil fuel to over 80% waste fuel
- Developed strategies for CO₂ trading
- Experience in procurement of traditional fuels and waste fuels
- Developed and managed waste treatment plants to supply waste fuels.



Alternative fuels experience continued...

CCA consultants' alternative fuels experience encompasses:

- Strategy
- Political, regulatory and community
- Coal purchasing and utilisation
- Waste derived fuels purchasing and utilisation
- Engineering

The following is a brief list of some completed projects:

United Kingdom – Cemfuel Production

Establishment of liquid hazardous waste production company on five separate plant sites.

Scandinavia – Kiln Fuel Company

Establishment of waste fuel production company and fossil fuel trading company.

United Kingdom – Castle Cement

Development of kiln fuel and carbon trading strategies and implementation.

United Kingdom – Confidential

Vertical coal mill department, liquid hazardous waste fuel, paper and plastic waste fuel, and burner.

United Kingdom – Castle Cement

Implementation on wet, preheater and precalciner kilns of hazardous liquid waste firing.

United Kingdom – Profuel production

Development of paper, plastics, timber and textile preparation plant for use in kiln firing applications. Application of this fuel on various plants.

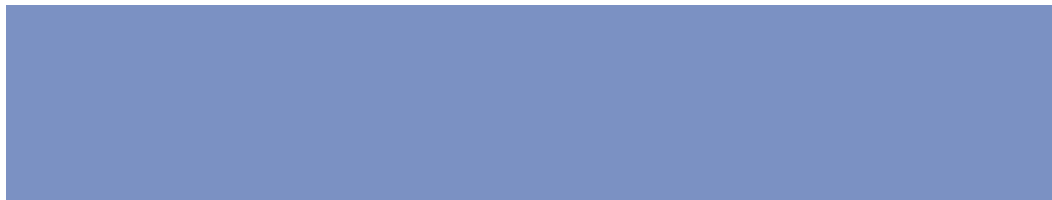
EU – Alternative fuel studies

Investigation into meat and bone meal storage and kiln firing application.

United Kingdom – solid waste derived fuels

Implementation of meat and bone meal, and chipped and whole tyres on various dry process plants.







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