



Kramer Ausenco

CAPABILITY STATEMENT | BRIDGES

South pacific engineering design leaders



Who we are

Kramer Ausenco previously known as Cameron McNamara Kramer Pty Ltd, Kinhill Kramer Pty Ltd and Kramer Group, is the largest independent professional project management, architecture, engineering, survey, quantity surveying, construction management and planning services organisation resident within the Southern Pacific Region. Originally founded in 1978, Kramer Ausenco still remains

as the leading engineering and project management firm in the South-West Pacific. We have offices in the following countries

What we do

- Professional Project Management
- Procurement & Planning
- Civil Engineering
- Structural Engineering
- Building Services Engineering
- Hydraulic Engineering

- Quantity Surveying/ Cost Planning
- Architectural Design Services
- Surveying
- Construction Management
- Studies
- CAD Services.



Our vision

Kramer Ausenco is devoted to the development of excellence in professional engineering and allied sciences, and we are also truly committed to the development of the South Pacific Region. Our successful record attests to our achievements of our corporate goals and the high level of professional service provided to our clients.

Our people

Our achievements are driven by our experienced leaders and highly talented people in our company. The way that we care for, develop and encourage our people is an important part of each of our cultures. Our approach to delivering projects is complementary and this means that we are able to put together the best people to form a tailored project team to deliver any project.

Our values

Our core values below guide the way that we work every day. These core values also represent our commitment to our clients and ensure that we focus on providing the best fit sustainable solution which meets the needs of all stakeholders.



Our values

Safety in all we do	Our people are our strength	Innovative solutions that work	The client is our focus	We are open, honest, collaborative	Respect the community, the environment
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Our system

Experience has shown us that successful projects employ integrated systems which assist the project team to monitor and control every aspect of the work. Kramer Ausenco make use of proven project delivery systems which facilitate our work and provides accurate and reliable reporting to highlight potential issues, before they affect the project's performance. The system dictates that data is entered once, validated and then used across the project. This ensures that the entire project team is working with the latest data, allowing us to make decisions quickly and accurately.

Our Services

Kramer Ausenco service capability covers the complete project lifecycle, from concept development through to detailed design, financing, planning approvals and construction of small and large scale projects. We have the ability to develop specific solutions to cater for any aspect of the development to ensure the needs of all of their stakeholders are met. Our services are broad and cover many different disciplines.

Kramer Ausenco is registered with funding agencies such as the World Bank, the Asian Development Bank, and the United Nations Development

Program, and the European Union, and as such has been engaged on projects funded through these agencies. Other funding agencies the firm has completed assignments for, include the Japan Bank of International Co-operation (formerly Overseas Economic Co-operation Fund of Japan), the Export Import Bank of Japan, the Japan International Co-operation Agency, and the Export Finance and Insurance Corporation of Australia.

Our experience in the South-West Pacific region ensures that we remain the leading engineering and project management firm for the region.

Our services

Aviation	Bridges	Building Services	Commercial, Residential & Industrial	Education	General	Utilities & Infrastructure	Health
Hospitality & Leisure	Law & Justice	Maritime	Public Sector & Urban Development	Resources	Highways & Roads	Water & Sanitation	

Program management specialists

Kramer Ausenco has program management experience for large scale projects throughout the world including many developing countries. Our program management expertise ranges from buildings, civil infrastructure, resources,

energy and process infrastructure. From small studies to large scale EPCM (Engineering, Procurement and Construction Management) and EPC (Engineering, Procurement and Construction) contracts and operations solutions for a range of commodities, we deliver.



BRIDGES

Scope of service

Kramer Ausenco's services to these sectors typically include:

- Feasibility studies and concept planning
- Town Planning and Development approval
- Environmental impact assessments
- Master Planning (site and infrastructure)
- Design and documentation of Architectural and Engineering aspects
- Quantity Surveying/Cost Planning
- Calling of Tenders
- Superintendency of contracts and contract administration
- Appeals and reports
- Local area traffic management
- State-of-the-art systems and technology applications
- Project management
- Commissioning

Kramer Ausenco's range of in-house expertise is comprehensive, while the breadth of its work enables access to a wealth of experience available through its network of strategic alliances.



Planning and conceptual design

Kramer Ausenco's services include all aspects of project planning (including the securing of all levels of authority approvals, town planning and zoning requirements), conceptual design, environmental assessment, cost estimating, and financial and economic evaluation. The organisation is capable of undertaking a wide variety of Commercial and Residential projects.

Kramer Ausenco's planning and conceptual design projects have included:

- Site Master planning, including assessment of existing infrastructure

- Conceptual building design for feasibility assessment
- Budget formulation and control
- Project Risk Assessment and Management

Environmental and social issues

Kramer Ausenco is capable of preparing environmental impact assessments for infrastructure developments. The company is qualified to assess proposed development plans and rehabilitation of existing infrastructure against a range of environmental and social criteria.

Environmental impact statements involve project management, marshalling of multi-disciplinary skills and understanding of social, economic and environmental issues. Attesting to our skills in this aspect are the issues in PNG that expand beyond the normal environmental science questions leading into a complex and unique web of cultural and traditional understanding. Kramer Ausenco has had over 35 years experience in dealing with such issues including the establishment of genealogy hierarchy and land and crop compensation settlements.



Design and documentation

Kramer Ausenco's completed projects are testimony to the importance of the work entrusted to the company and form the basis of the design and documentation skills developed among our staff. Kramer Group can provide Commercial and Residential Development expertise in the following disciplines.

Project & Construction Management

This service has been provided since the early 1980's and has been successfully demonstrated on a number of significant projects. The service includes the following:

- Project Planning
- Design Control
- Construction Supervision
- Contract Interpretation
- Tender Preparation and Evaluation
- Materials Ordering and Expediting
- Team Alliances and Liaison
- Financial Reporting
- Cash Flow Control
- Scheduling
- Construction Co-ordination
- Progress Reporting

Kramer Ausenco operate under a Project Management framework developed and used over the years to suit local conditions in the region to ensure successful completion of projects on time and within budget.

Architecture

Site master planning, concept planning, functional relationships, detailed design and construction detailing.

Structural Engineering

Covering both conventional and more specialised forms of construction, we are very conversant with the seismic design requirements and all relevant PNG, Australian and other relevant codes of practice.

Water engineering

Within the Kramer Ausenco and our strategic alliances, our specialist water engineers are acknowledged for their expertise. Our services include survey, investigations, flood mitigation studies, hydraulic studies for infrastructure location and design parameters, feasibility studies, and design and documentation.

Mechanical, electrical and hydraulic services

Our team is experienced in a wide range of Building Services sectors including HVAC, Smoke hazard management, lighting and power reticulation, fire detection and suppression systems, security systems and data and communications systems, electrical and gas hot water generation, fire fighting infrastructure and sanitary drainage.

Survey and geotechnical work

All necessary briefing and interpretive skills are available in-house where professional engineers subcontract the detailed requirements to specialist firms whose capabilities are well known and highly regarded.

Risk management

Within Kramer Ausenco, basic principles drive specific management actions to ensure that the right skill, experience and checking procedures are brought into play at key times in the planning, design and construction processes. The principles are:

Personnel selection

Kramer Ausenco's regional size and presence supported by the Ausenco Group provides an appropriate choice of personnel with the relevant skills for the project.

Management structure

This provides cross-fertilization of ideas, variety and depth of relevant local experience. Kramer Ausenco also has an in-house, computer based management information system which is a powerful and useful tool in the control of projects and resources. This is combined with a state of the art intranet IT System which provides the latest in communications, data transmission and systems control.

Project definition

Fundamental objectives and criteria for success are established with the client from the outset of any project.

Value for money

Kramer Ausenco's practical architecture and engineering approach challenges many preconceived notions and has saved significant costs on projects.

Quality assurance

Kramer Ausenco conducts its affairs in accordance with a set of operating procedures referred to as the Kramer Ausenco Business System. This system has been third party certified to conform to the requirements of AS/NZS ISO 9001.



Western Province- PNG

Professional project management

Kramer Ausenco takes pride in its project management capabilities as they relate to planning, design, construction and commissioning of projects on behalf of clients. The services offered are tailored to suit each specific project and the particular client's requirements. The project management team, under the direction of the Project Director or Project Manager, take responsibility for all aspects of the project phases from planning/permitting phase to fixing the budgets to design/documentation to tender and superintending the contracts.

Subject to project requirements Kramer Ausenco will advise at the outset on the most appropriate management procedures for a particular project.

Kramer Ausenco can provide project management services acting as the client's principal agent. In this capacity, Kramer Ausenco provides and directs all technical services, supervises the conduct of the project in terms of the client's requirements relating to quality, time, cost, cash flow and resource utilization, and presents regular systematic reports on progress.

Alternatively, Kramer Ausenco can provide project management co-ordination services, including assembly of the project team and co-ordination of its activities. Under this arrangement, the client's project manager retains authority for directing the project, but is relieved of the time commitment involved in a full project management role.

In recent years, Kramer Ausenco has provided project management services to industry and governments for projects with cumulative capital value in excess of US\$100 million.



Bridges Projects

Kramer Ausenco has vast amount of experience in the Bridges Sector. In most cases construction, supervision and contract administration have been provided. Work locations have been throughout Papua New Guinea, Fiji, and Vanuatu.

Examples of Kramer Ausenco's Bridges experience are shown below:



OTML ALLIANCE BRIDGES REVIEW

Western Province – PNG

- Kramer Ausenco was commissioned by OTML to carry out structural inspections of seven (7) bridges along the Mine Access Road from Kiunga to Tabubil and up to Mount Fubilan where the mine site is located.
- Kramer Ausenco prepared a bridge integrity report following visual inspections and structural analysis.
- Bridge capacity checks were carried out based on client supplied loadings then recommendations were provided for remedial works accordingly.
- Responsibilities: Structural engineering inspection, analysis and recommendation.

HIGHLANDS HIGHWAY BRIDGES INSPECTION

Lae-Mendi – PNG

- Kramer Ausenco was commissioned by EOS Joint Venture to participate / assist / support the PNG LNG Bridge & Road Inspection Project Team that were performing structural inspections and assessment of road geometry of the Highlands Highway of PNG from Lae to Mendi.
- Responsibilities: Civil Engineers

NBPO BRIDGES INSPECTION

West New Britain- PNG

- NBOPL commissioned Kramer Ausenco to inspect and report for upgrade the 2 major existing bridges on the New Britain Highway.
- The two (2) bridge sites were visited, site reports completed, final analysis and documentations completed with the final documents sent to Client on time as expected.
- Responsibilities: Structural Engineering Analysis & Proposal



PUAL RIVER BRIDGE

Vanimo, West Sepik - PNG

- Construction of 86m span bridge to cross the Pual River in the West Sepik Province of Papua New Guinea, serving the Vanimo Forest Products log harvesting operation and will form part of an all-weather road to link West and East Sepik Provinces.
- Responsibilities: Engineering design, hydraulic studies, supervision of geotechnical investigation, topographic survey, cost studies, seismic design, and preparation of tender documents, project management and contract administration of construction.



HIRITANO HIGHWAY (BEREINA TO MALALUA BRIDGES)

Port Moresby - PNG

- Kramer Ausenco was engaged by Nippon Koei to detail design and document 9 bridges as part of the OECF funded Trans Island Highway (Bereina to Malalua Section).
- All bridges were concrete deck/steel girder composite superstructure and piled substructure.
- The design was in full compliance with the PNG Bridges codes with seismic provision
- Responsibilities: Bridge Design Engineers



BOROKO CREEK BRIDGE

Boroko, Port Moresby - PNG

- Construction of a 32.8m span bridge in a curve section across the Boroko Creek on the Main Access Road leading into and out of the Port Moresby (Jackson's) International Airport (Erima End) National Capital district.
- The bridge project was part of the Port Moresby (Jackson's) International Airport Redevelopment Project.
- This bridge also carried all major Eda Ranu Services (Water and Sewerage), and Telekom Services to the Airport area.
- Kramer Ausenco also provided construction supervision of the bridge construction.
- Responsibilities: engineering design, geotechnical investigation, topographic survey, cost studies, seismic design and preparation of technical specification.



WAISOI PROJECT CONCEPT

-Fiji

- The client requested a conceptual bridge crossing proposal and estimate for a temporary river crossing to be used during the early works phase for construction on a new mine.
- Kramer Ausenco recommended a 10 Tonne Capacity Bridge - 30m span reinforced deck steel truss bridge on concrete filled containers as sacrificial forms similar to one in the picture above.
- The superstructure, including deck, would be prefabricated in easily transported sections and lengths.
- The Proposal and estimates were provided to the Client.
- Responsibilities: Structural Engineering Analysis & Proposal



EXXON MOBIL BRIDGE ANALYSIS

Southern Highlands - PNG

- Kramer Ausenco was commissioned by ExxonMobil to analyse 22 bridges for their load carrying capacity.
- We modelled the bridges with structural analysis software and load tested them with virtual truck & trailer loads. As a result of our study we proposed upgrade works that included the installation of additional load bearing members and replacement of corroded elements.
- Responsibilities: Structural Engineering Analysis & Remedial Proposal

Kramer Ausenco's team strength lies in its people.

Frank Kramer

Chief Executive

Kramer Ausenco

Frank Kramer established the first indigenous owned Engineering firm in Papua New Guinea. He has been involved in the Project Management, Project Financing and major loan negotiations for the Government Instrumentalities. His interest in projects financing has lead him into negotiating and or co-arranging finance packages for numerous private and public projects. Notably, Frank was the co-team leader in negotiating in excess of US\$100M on behalf of the PNG Government for Jacksons (Port Moresby) International/Domestic Airport Terminal Upgrading from the then OECF-now JBIC Japan Bank of International Cooperation (1990).

Bruce Nicholson

Chief Operating Officer

Kramer Ausenco

Bruce has more than twenty-five years' experience in project management in particular the management of multidisciplinary infrastructure projects, multidiscipline team compositions and diverse stakeholder groups. He has over the last fifteen years been continuously involved in project work in developing countries viz. Papua New Guinea, Samoa, Vanuatu, Tonga and Solomon Islands. In that time he has managed and administered a range of institutional infrastructure projects for donor agencies such as AusAID, World Bank, EU, ADB and JBIC to FIDIC and Australian General Conditions of Contract. Bruce is a member of the Institution of Engineers PNG and is currently based in PNG.

Jason Goddard

Australia and Pacific Regional Manager

Kramer Ausenco

Jason has a wide range of experience gained since graduating in 1994 in structural design and documentation, project management, supervision and contract administration of projects of all types including institutional, commercial, resort and residential projects. Design Management of multi-discipline engineering and Team Leader roles have been undertaken since 2000 for projects in seismic and cyclone prone regions of Australia and the S.W. pacific region including projects funded by various International Development Partners.

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