

Proven expertise and support.

When you need it, where you need it, how you need it!

**ADVISORY & SUPPORT
'TROUBLESHOOTING & FIXING'**

*Forensic Consulting & Engineering
Remedial Consulting & Engineering
Adjudicators & Mediators | Dispute support
Project Support & Management Consulting
Engineering Management Support
Operational & Engineering/Technical Support*

**STRATEGIC ADVISORY & MANAGEMENT
PROJECT & ENGINEERING DEVELOPMENT**

*Strategic Project, Engineering &
Management Advisory
Project & PPP Development & Advisory
Engineering Management
Systems Engineering
Project Engineering | Project Management*

Multi-disciplinary (including technology-based) infrastructure, systems and projects
Specialist engineering

At **Engenamic**, we provide niched and high-value services to our clients.

Complementing our strategic advisory services and development/development-support services and activities, “troubleshooting & fixing” is a strong focus of our project, engineering, operations and management advisory & support services, which include forensic & remedial consulting and dispute support. Our dispute-related services also include services as mediator or adjudicator.

Using our broad-based and high-level expertise and experience in projects, management and engineering, as well as the particular insights and capabilities gained through our forensic, dispute-related and remedial advisory experience, we provide both proactive and reactive support for our clients’ requirements and challenges.

We enable successful and beneficial management, project, development, and engineering outcomes. We work closely with our clients, through a collaborative approach and outlook, to complement and supplement their capabilities and teams, whilst also offering the benefits of an independent perspective.

And when our role requires impartial independence and objectivity (such as an independent advisor/expert or in an adjudication or mediation role), we absolutely understand and rigorously apply that too – without “fear or favour” and independent of particular party’s interests.

Our services are offered internationally on a worldwide basis.



STRATEGIC ADVISORY & MANAGEMENT | PROJECT & ENGINEERING DEVELOPMENT

We provide project and engineering strategic consulting, advisory, and management services, and development/development-support, to multi-disciplinary and sector-specific projects and engineering activities and operations.

Our services can be provided across the project and engineering life cycle, or can be focussed on specific issues, challenges or problems which may be encountered at particular stages.

Specific experience and expertise is available in respect of conventionally structured projects as well as public-private partnership (PPP) type projects.

Our service offering includes:

STRATEGIC MANAGEMENT, PROJECT & ENGINEERING ADVISORY | PROJECT DEVELOPMENT

Where are we? Where should we be going? How best do we get there?

Our strategic project consulting and project advisory services are focused on helping clients to address these and similar issues as they impact on projects and related infrastructure and systems.

Our services include:

- Project investigation, conceptualisation, strategy and structuring consulting and advisory services.
- Project, engineering and operations due-diligence and due-diligence support, including independent reviews, audits and assessments.
- Feasibility and pre-feasibility studies (or study support in respect of specific aspects).
- Project assessment, including risk assessment (and risk management).
- Project and programme planning and advisory services.
- Supply chain/procurement strategy, planning and advisory services.
- Project development and development support, developing ideas, concepts, strategies and plans into viable and sustainable projects.

This includes technical, planning, commercial, financial and contractual aspects and the integration thereof.

Our services are supported by association with specialist advisers and consultants (such as commercial, legal and technical).

SYSTEMS ENGINEERING & PROJECT ENGINEERING | ENGINEERING MANAGEMENT

Successful infrastructure, systems and other projects and engineering operations rely on an effective, holistic, systematic and structured engineering approach.

Our systems engineering and project engineering expertise and services will help facilitate your project and engineering success.

We provide our services on a multi-disciplinary basis, together with discipline-specific associates.

- Independent review, assessment, monitoring or oversight of the engineering process and/or outcomes (including for example as owner's engineer, as an independent reviewer/assessor, or directly for the client's team).
- Engineering risk assessment and risk management (including coupling this with project related risk assessment & management)
- Development of engineering and engineering management strategies, feasibility studies and conceptual designs, and integration of these into project strategies and plans.
- Engineering of high-level (and detailed) designs and preparation of associated documentation (including specialist technical areas).
- Engineering (including implementation & commissioning) support & oversight, as part of the engineering team or as an independent party.
- General Engineering Management, including management of integration of the Engineering Process with the Project Management process.

ADVISORY & SUPPORT / 'TROUBLESHOOTING & FIXING'

PROJECT SUPPORT AND MANAGEMENT CONSULTING

Our project support and management consulting and advisory services are multifaceted and are aimed at supporting project and operational challenges at all points in the project and business/operational lifecycle and value-chain. This includes operational and technical support challenges.

Our professional services include project forensic consulting, assessments & reviews (including due-diligence exercises & support), as well as remedial, dispute and general support & advisory consulting. We are able to assist our clients with:

- Project assessments/reviews, audits and investigations, including project and operational/business due-diligence and project forensic investigations/assessments.
- Project remedial consulting and management (often best addressed or overseen by an objective and independent party).
- Project management and implementation planning and co-ordination (including oversight and support to client's own/internal teams and contractors as appropriate).
- Supply chain management/procurement management.
- Risk assessment and risk management (including project, operational & engineering risks).
- Change management.
- Contract management, contract administration, project administration.
- Proactive project problem and dispute avoidance consulting. Potential disputes can be related to project management, contractual, commercial and technical/engineering issues.
- Support to claims and dispute resolution actions.

DISPUTE AVOIDANCE | DISPUTE RESOLUTION

We/our team members are available for nomination as an independent and objective party as a conciliator, mediator, adjudicator or expert determinator, and on dispute adjudication boards (DABs) or other dispute avoidance and resolution panels.

FORENSIC & REMEDIAL ENGINEERING | ENGINEERING SUPPORT | OPERATIONAL & TECHNICAL SUPPORT

Our forensic engineering, remedial engineering and engineering support services leverage our team members' project and engineering expertise and experience to support your business, project and engineering activities throughout the project and engineering lifecycle. Our services include:

- Technology and engineering assessments, audits and reviews, including design reviews and/or management of and coordination thereof.
- Forensic engineering and remedial engineering, including:
 - * Independent forensic technical/engineering audits, assessments & investigations.
 - * Investigation of operational and/or performance issues and problems, failures, damage and claims.
 - * Investigation of accidents, injuries, and other incidents (such as plant/equipment/infrastructure failures, electrical fires, SHEQ-related incidents/issues, lightning safety & protection).
 - * Engineering support to processes such as due-diligence exercises, project and other reviews, hearings, inquiries and inquests, litigation and dispute resolution.
 - * Project management and/or engineering consulting in respect of remedial or replacement infrastructure, systems and/or other solutions, including specification and design as required.
 - * Independent assessment or review of work done.
- Operational and technical support services, including:
 - * Change management consulting and support.
 - * Training support.
 - * Monitoring and evaluation of systems and infrastructure (including, for example, condition, performance, specifications, maintenance and ongoing technical and operational suitability).
 - * Preparation, review and/or updating of client specifications, standards and procedures (once-off or ongoing monitoring and update services).
- Engineering design & associated documentation (including in specialist technical areas).
- General engineering assessment, problem solving, investigation and advisory consulting.

We provide our project & engineering support services on a multi-disciplinary basis (including specialist technical areas), together with discipline-specific associates, and supported by association with specialist advisers and consultants (such as commercial, legal and technical).



Projects | Engineering
Operations | Management
Advisory | Support | Development

*Your management, project,
engineering & operations advisory,
support & development partners*

Our services are offered
internationally on a worldwide basis

www.engenamic.com



Contact person for enquiries

Ian McKechnie (CEng, IntPE(SA), PrEng)
CEO

For worldwide enquiries,
contact us at our Operations Hub:

We service our clients internationally and nationally from our centralised operations hub in Centurion, Gauteng, South Africa. Our operations hub is conveniently located close to major international airports and other transport routes.

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The Engenamic family includes



OUR PROFESSIONAL TEAM

Our principal professionals are Ian McKechnie (CEO) and Ian Jandrell (CTO).



IAN S McKECHNIE

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FIET, FSAAE, FSAIEE, SMIEEE, AA Arb
*Chief Executive Officer (CEO) - ENGENAMIC
Principal Advisor/Consultant*



DR IAN R JANDRELL

IntPE(SA), PrEng, BSc(Eng), GDE, PhD,
FSAAE, FSAIEE, SMIEEE
*Chief Technical Officer (CTO) - ENGENAMIC
Principal Advisor/Consultant*

The ENGENAMIC leadership team is supported by additional consulting, advisory and support capabilities as required, ensuring that a professional and comprehensive service is offered to our Clients. Through our leadership and team members we add value and insights from international and South African experience and exposure.

We apply our team's collective expertise and local & international experience to support you in addressing and resolving your management, project & engineering challenges.



OUR APPLICATION AREAS/SECTORS

Technology-based projects, systems and infrastructure, including:

- Energy infrastructure, power/electrical systems
- Communications systems & infrastructure
- Information Engineering/Technology & infrastructure
- Electronic systems
- Aviation technology infrastructure

Specialist engineering/application areas, including

- Lightning safety & protection
- Industrial EMC
- High Voltage

Multi-disciplinary infrastructure, systems & projects, including:

- Energy/power sector projects
- General Industrial infrastructure
- Commercial infrastructure
- Resources sector projects & infrastructure
- Petrochemical/oil & gas sector projects and infrastructure
- Development initiatives
- Environmental Impact Assessment (EIA) project management