



Safer • Smarter • Solutions



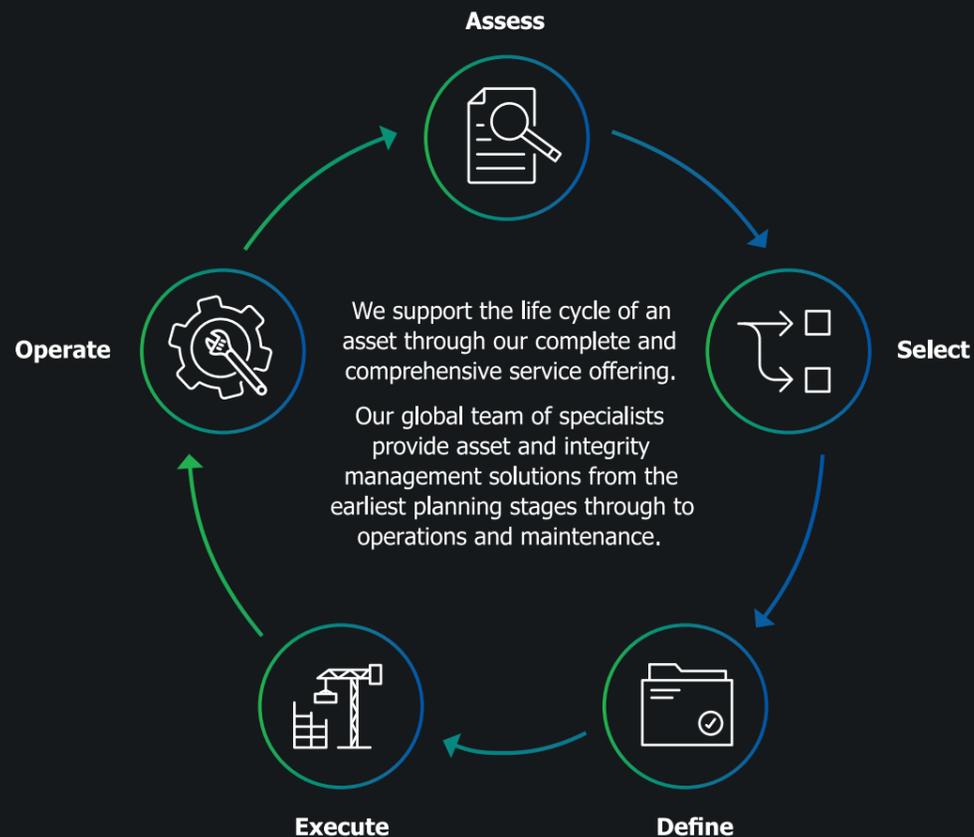
ASSET AND INTEGRITY MANAGEMENT SERVICES

OUR EXPERTISE

At EnerMech, we deliver solutions to complex assets in highly technical and regulated environments.

Our Asset and Integrity Management (AIM) services offer the optimum balance between risk, performance and cost for our clients. These services are complemented by our engineering expertise, allowing asset and integrity management solutions to be developed and incorporated at one or every stage of a development's life cycle.

When working on specialist asset and integrity management solutions and related projects our clients benefit and are supported by our front end technical capability. This approach has led to the delivery of best practice and world-class processes, systems and technology to a broad range of industry sectors.



ABOUT ENERMECH

We are a specialist service company delivering specialist, technical solutions to complex energy and infrastructure projects. Delivering value to our customers by combining experts, IP, technology and asset management, across the entire asset life-cycle.

Our offering is simple yet powerful: nine key service lines delivered with a holistic view; so our customers benefit from fewer contract personnel on site, improved safety, and reduced complexity.

With experts globally, we have the right capabilities and vision to serve the ever-changing needs of our industry with an extensive portfolio of services including Training, Hydraulics, Equipment Rental, Specialist Mechanical, Electrical and Instrumentation, Process, Integrity Management, Pipeline and Subsea, Cranes and Lifting and Valves.

We deliver interconnected specialist services delivered individually or as an integrated package



ASSET & INTEGRITY MANAGEMENT

EnerMech's Asset & Integrity Management team specialises in global operations and maintenance, supported by in-house design and engineering capabilities and tools, to provide a complete set of end-to-end overall asset integrity solutions.

ASSET & INTEGRITY HEALTH CHECK

Audits and reviews provide practical and realistic data support by way of tangible evidence on how assets are performing today, and may perform in the future.

Benchmarking & Analysis

Looking at gaps and improvements in both safety and performance and comparing the results against industry best practices, peers and other market data to determine focus areas of improvement.

Asset & Integrity Health Check

An asset health check is a vital process to provide clients with data on the asset's operational and technical integrity, rank its performance and detect any immediate or future enhancements required.

Asset Integrity Framework

To support clients with the assurance of asset, integrity and safety standards it is critically important to embed technical and operational frameworks, coupled with the required operational processes to assure robust levels of integrity.

Inventory, Materials & Spares Management

Ensures materials and spares are aligned to maintenance and safety criticality to avoid unplanned downtime, reduce costs and optimise spares inventory.

Operational Readiness

Ensures critical activities are planned and executed from the beginning of the asset life cycle through to a steady state of operations and production.

Operations & Maintenance

Improving operations through the delivery of specific training, clearly defined procedures, robust fit for purpose processes that align to clear industry standards.

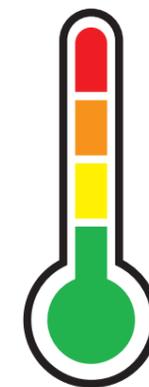
Maintenance & Reliability Optimisation

A systematic suite of activities will improve and enhance safety, equipment reliability and productivity through efficient and cost effective maintenance planning. We deep dive into efficiency and effectiveness of our customer's maintenance programs to develop focused and strategic optimised maintenance strategies.

Process Optimisation & Efficiency

Business and operational processes are adjusted to achieve sustainable optimal performance to deliver reductions in operational capital expenditure and maximise production efficiencies.

EnerMech's Health Check process identifies the condition of an asset (or assets) through our subject matter experts and an extensive range of industry specific questions. Questions range from operations, organisation and people through to plant and production, looking at operational and technical integrity to rank an asset's performance risk according to:



IMMEDIATE ENHANCEMENT REQUIRED

POTENTIAL FOR IMPROVEMENT

EFFECTIVE PRACTICE

BEST PRACTICE

Outputs typically include:

- Practices currently being used, identified and made transparent
- Alignment (where applicable) to international and industry accredited standards, client standards, procedures and guidelines, recognised best practices are optimised
- A reported gap analysis between industry best practice vs. good practice is clearly identified
- Where improvements and enhancements are identified a full set of solutions will be provided
- Measuring against industry average
- KPIs (Key Performance Indicators)
- Gaps and risks identified.

CLIENT BENEFITS



Increased Plant & Asset Availability



Measurable Safety + Integrity



Optimised Expenditure

The asset health check report looks at asset integrity at both operational and technical integrity. An asset can not have assured integrity without the application of both sound operational and technical integrity.

The report includes early warning signs of risks that may impact a client maintaining their license to operate, and is a tool that can be used for strategic decision making offering improved clarity and sound knowledge.



ASSET INTEGRITY FRAMEWORK

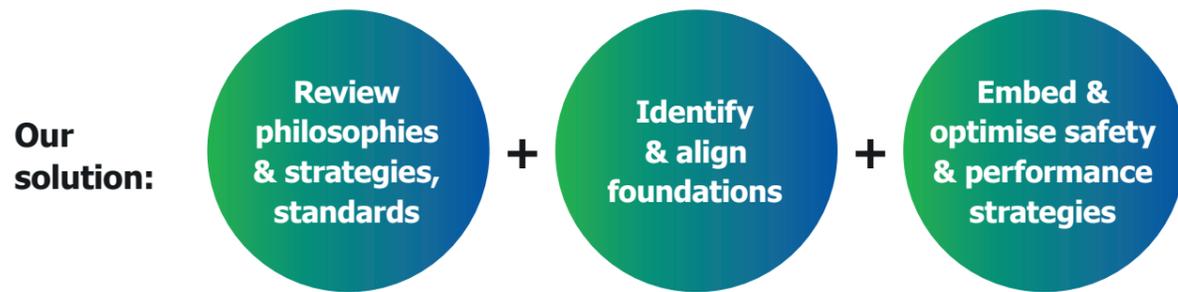
Embedding robust frameworks for both operational and technical integrity delivers improvements in safety, availability and performance of operating assets.

PROCESS OPTIMISATION & EFFICIENCY

Delivering assured and improved plant asset availability, while minimising risk and hazards to support optimised production and emissions on a risk assessed basis, measured by robust process simulations.

Typical services offered:

- Design, technical, operational frameworks
- Development of health and safety cases
- Risk and Bowtie analysis
- Maintenance strategies aligned to performance standards
- Review and re-work of associated corporate standards
- Assurance embedded through structured audits and review
- KPIs (Key Performance Indicators) review
- Real time reliability and bad actor solutions
- Equipment criticality and asset verification
- Maintenance builds and asset register
- Criticality identification and Safety Critical Equipment (SCE).



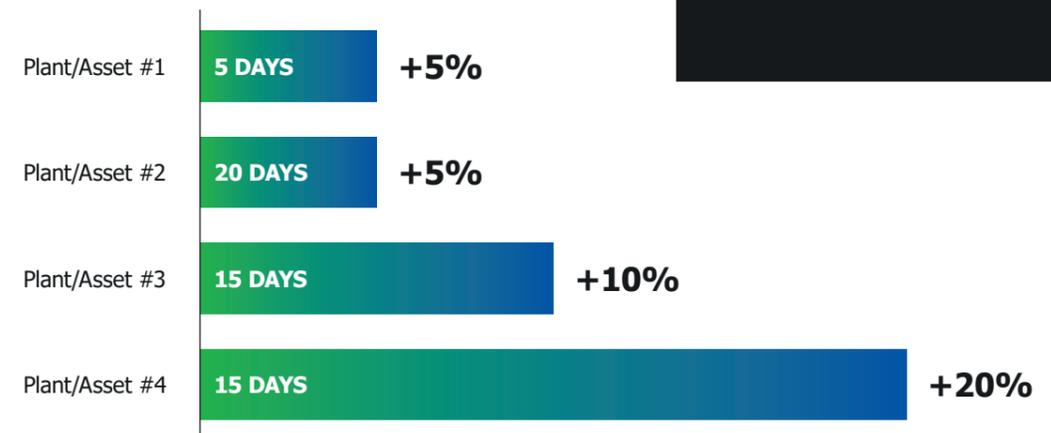
Services include:

- Improved plant start-up/shutdown efficiency
- Improved trip event reduction
- Improved quality procedures and processes
- Energy management strategies
- Reducing day-to-day operator faults
- Simulated testing
- Role play training and drills
- Enhanced emergency response and preparedness.



Our strategic clients realise opportunity between **5% to 20% increase in production & performance**

Typically improved productivity example



Proven performance standards embedded in client facilities globally.

BENCHMARKING & ANALYSIS

Optimised performance in production and manufacturing facilities is a critical factor to achieve a competitive advantage in any industry sectors.

Attaining and maintaining higher levels of operational effectiveness and production is now a primary focus for all global businesses.

Benchmarking and auditing identifies best in class performers in terms of operations and maintenance, and conducts improvement analysis using accurate best in class industry benchmarked peer data to:

- Quantify and understand strengths and weaknesses relative to industry peers
- Gain insight into competitive position
- Analyse costs and operating practices to improve efficiencies
- Evaluate existing capital and resources to reallocate to other assets
- Evaluate company (or asset) performance.

We provide a complete range of benchmarking services to a broad range of industries, globally. These benchmarking programs and tools are developed on a client-by-client basis to compare performance and costs, not only internally but against industry competitors or within their own global organisation (intra-company).

Key corporate business and functional areas performance are improved through analytical services and capabilities to provide clients with detailed insights into specific areas through:

- Benchmark Data Surveys
- Benchmark Data Gathering Analysis Surveys
- Modelling Surveys (people, operational, maintenance, organisational, projects, layout, plot etc.)
- Performance and Efficiency Improvement Workshops
- Business Model Evaluations and Surveys.



Reduce expenditure & improve efficiency



Identify improvement opportunities



Assess & compare productivity



Forecast impact of change to prepare for growth

INVENTORY, MATERIALS & SPARE PARTS MANAGEMENT

Incorrect, inappropriate or non fit for purpose materials, spares or supply chain processes cause downtime of production and safety critical equipment. This results in expensive delays to day-to-day operations, and significantly increases the risk of catastrophic failures.

We provide our customers with a comprehensive service to improve the efficiency of supply chain, materials and spares availability for maintenance and operational contingency. These services range from specific supply chain processes, spares philosophy, criticality studies, bills of materials (BoMs) preparation for equipment and maintenance, original equipment vendor identification, inventory management, preservation management and fit for service assurance and other supply chain optimisation.

POTENTIAL BENEFITS



15% to 40%

Reduction in inventory holdings



10% to 20%

Reduction in replenishment cost



30% to 50%

Reduction in stock out risk



95%

Inventory accuracy



Availability of correct materials, spares & inventory decreases risk of unplanned expenditure

1 Identify and verify Safety and Production critical equipment in the asset management register for completeness to ensure current materials, spares and inventory are assigned

2 Assess materials and spares philosophy and strategies to enhance production and performance

3 Review materials and spares criticality by type, lead time and suppliers

4 Develop and assign equipment BoMs (Bills of Materials) so current materials are catalogued

5 Materials and spares management inventory optimisation

6 Shelf life and preservation management

MAINTENANCE & RELIABILITY OPTIMISATION

EnerMech provides best-in-class optimal, efficient maintenance strategies and solutions ensuring compliance to standards and legislation for overall improved business efficiencies.

OPERATIONS & MAINTENANCE EXECUTION SERVICES

Operations and maintenance are becoming increasingly critical services as businesses seek to protect capital investments and generate optimum efficiency and safety.

We provide specialist services that significantly improve the quality of performance and effectiveness of a client's operations and maintenance processes. Our services are individually tailored and customized to align with the client's practices, whilst always ensuring that we apply best-in-class industry standards which, when implemented and executed correctly, result in significant savings.

Services include:

- Access to world class and robust maintenance archive database to establish minimum standards
- Planned maintenance definition, cleansing and optimization
- Detailed systematic deep-dive analysis of maintenance data within a client's Computerised Maintenance Management Systems (CMMS)
- Asset register CMMS clean up and enhancement for maintenance planning and execution purposes
- Focused identification of equipment bad actors with tailored solutions
- Review and development of key maintenance philosophy, strategies and procedures in aligned with defined standards
- Energy efficiency audits to reduce consumption costs
- Performance standards and assurance tasks review and alignment
- Safety and production critical element reviews
- Development of maintenance strategies using robust industry and EnerMech's maintenance library
- Analysis and benchmarking of historical maintenance efficiencies.

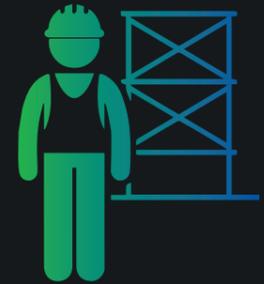
Our multi-discipline operations and maintenance execution and support services deliver safe, more predictable and efficient operation for our clients.

Working collaboratively, we seek to understand our client's business goals, strategic objectives and work in complete transparency when executing long-term operations and maintenance contracts.

This is underpinned by our global and experienced Asset and Integrity Management team who delivers optimal safety, plant productivity, efficient tool time and both operational and maintenance optimisation.

This is achieved through full integration and compliance within our client's systems, procedures and processes to develop and execute maintenance work.

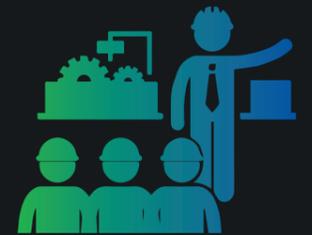
Assuring the integrity of our clients' facilities with highly skilled competency and tested teams, coupled with a strong process safety framework and culture is paramount.



Operations General Support & Services



Operations & Maintenance Execution Services



Tailored Asset & Integrity Management based Maintenance



Typical example of maintenance efficiency savings delivered

OPERATIONAL READINESS

Operational readiness is an integral part of EnerMech's Asset and Integrity Management offering, that ensures critical activities are planned and executed from the beginning of the asset life cycle through to a steady state of operations and production.

Operational readiness is a systematic approach to integrate organisational capabilities with project delivery. This process ensures an asset is ready to safely start-up its operations on time and perform in accordance with its best of design in a safe, efficient and sustainable capacity that meets operational and name plate production.

This is achieved through ensuring:

- Physical assets are ready: Equipment and processes starting within an operational context will deliver optimal performance
- People are ready: People are on-board, trained and equipped
- Processes are ready: Seamless integration into existing business processes
- Information systems are ready: Critical business information is available from the first day of operation.

Why is it important for projects to undertake Operational Readiness?

The ability of the Operations team to start-up and ramp-up once a project is handed over is a critical factor in achieving the business case benefits. Any delays achieving an efficient start-up and ramp-up leads to lost output and achieving a planned return on investment.

Studies show the majority of major projects will experience cost overruns and project delays. This causes a significant impact to production when the project is handed over to the operator.

Operational readiness ensures risks are identified and mitigated early, in addition to minimising the gap between expected and actual performance.

Estimated post start-up delays and losses are typically attributed to the following areas:

↓ **30%**
Operational

↓ **40%**
Project

↓ **10%**
Technology

↓ **5%**
Environment

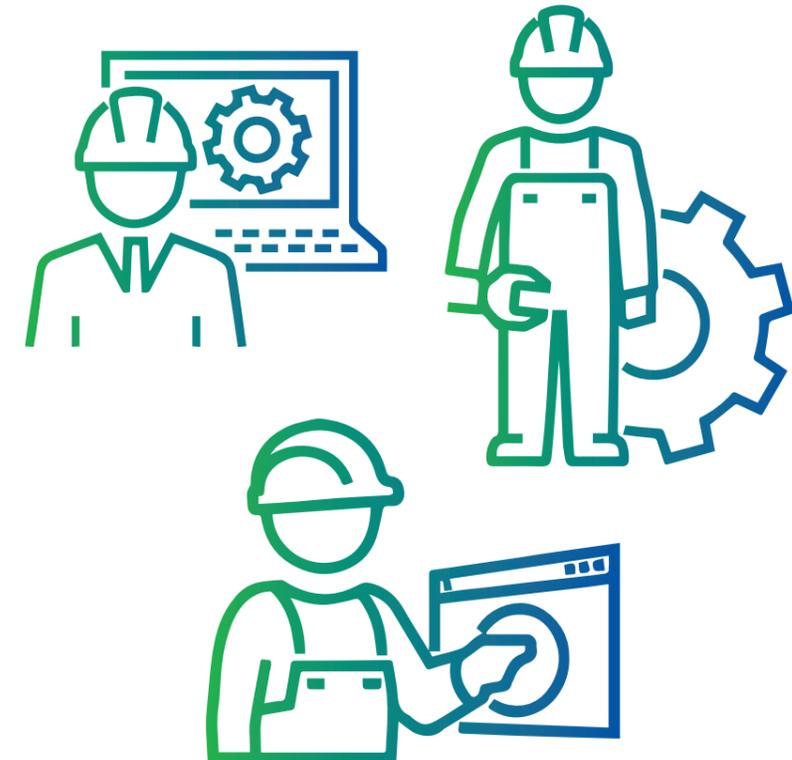
OPERATIONS & MAINTENANCE SUPPORT SERVICES

We deliver world class operations and maintenance support services safely across many industry sectors, globally.

Our client operations are supported in a safe and reliable manner through a range of traditional support services. These services align to our customer needs through functionality, operational cost reduction and a team ethos to deliver efficiency improvements.

Typical examples include:

- Implementation of world class maintenance regimes and best practices
- Improved plant up-time (industrial services, maintenance, engineering inspections, spares and vendor support)
- Focused technical competency and training
- Operational performance (linked to agreed and defined operational KPIs)
- Continuous best practice education and management of drivers for safety, operations and maintenance
- Optimised and maximised tool time/wrench time efficiency
- Management and standardisation of operational and maintenance complex contract agreements, supply interfaces and third-parties.
- Cranes and Lifting , TAR (Turnaround Services) , Flange Management, Valve Manufacturing, Hydraulics and Integrity Inspection Services



OPERATIONAL EXCELLENCE

We strategically work with clients to understand their performance needs in a fully integrated and transparent manner to achieve operational excellence.

Achieving operational excellence will support optimised production through the elimination of loss and waste to lower operational risk, reduce operating costs and increase revenues. This is achieved through a safe and systematic management of business and operational processes and investment in developing the right culture.

Operational Process Management Framework

Process performance is enhanced through the reduction of duplication or overlap, redundancy and conflict, as well as identifying the associated risks, appropriate mitigation, change management and continuous improvement requirements.

Workplace Culture

A workplace culture focusing on safety, competency, problem-solving and teamwork creates positive motivation, empowerment, robust leadership and a structured approach leading to improvements in workplace activities through appropriate behaviours.



OPERATIONS OPTIMISATION

Operational optimisation is an ongoing process to identify and systematise business processes and controls using technology and best practice methodologies to streamline costs and increase productivity.

Operations optimisation is the structured discipline of reviewing processes to enhance specified sets of parameters and data without infringing on key safety operational constraints.

When optimising a process, the goal is to maximise one or more of the process specifications while keeping all others within their given operational constraints.

Fundamentally, there are four key optimisation parameters that can be adjusted to effect optimal operational production performance.



PROJECT SERVICES

Our project services cover the life-cycle of a project, from initial concept, feasibility and design through to construction and operations & maintenance.

DELIVERING VALUE ACROSS MULTIPLE END MARKETS

We celebrate our ability to deliver our specialist services across a broad spectrum of industrial sectors. Whilst maximizing our core Oil and Gas foundations, we continue to focus on growth areas across the LNG, Nuclear, Clean Energy and Hi-Tech markets.

Our consulting services combine in-house expertise with state-of-the-art systems to provide cost-effective, practical and sustainable project outcomes for our clients.

Operations & Maintenance Engineering

Our multi-discipline operations and maintenance execution and support services deliver safe, predictable and efficient operations for clients operating across a broad range of industries.

- Performance standards
- Performance testing verifications
- Commence/start-up support
- Equipment reliability envelopes
- Flawless start-up
- Operations execution support
- OEM support
- Integrity Management Inspections Services
- TAR / Shutdown Services
- Flange Management
- Hydraulics & Pressure Services
- Cranes & Lifting Services

Conceptual Development

Our multidisciplinary team of professionals provide advice, and assess each project to gain an in-depth understanding of the project objectives and establish the overall project scope.

- Strategy development
- Concept assessment
- Privatisation studies
- Due diligence studies

Construction/Commissioning Support

EnerMech maintains projects on schedule, reduce technical risks, meet budget requirements and ensure compliance with relevant regulations, quality standards, construction permits and insurance guidelines to ensure each project is completed successfully.

- Tender and contract management
- Construction supervision
- Project management
- Program management
- Operational readiness
- Commissioning
- Maintainability
- Mechanical, Electrical and Instrumentation Project Services

Project Assurance Services

We work with our clients and their contractors to offer independent value assurance stage gate checks, reviews, and benchmarking to avoid significant changes during the construction stage.

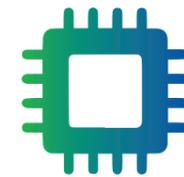
- Detailed Design process reviews
- FEED process reviews.
- Model review process
- Maintainability/operability reviews



LNG



OIL & GAS



HI-TEC



NUCLEAR



RENEWABLES



MARINE



INFRASTRUCTURE



MINING



INDUSTRIAL



OUR GLOBAL FOOTPRINT

EnerMech is one of the world's leading providers of specialist, technical solutions, with experts working across 28 countries. We work collaboratively to deliver innovative, flexible and smart solutions that meet the challenges of the global energy and infrastructure industries.

TRUSTED BY OUR CLIENTS

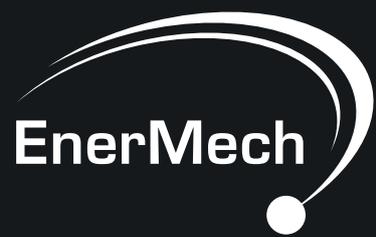
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48+
locations globally

28
Countries

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Employees



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