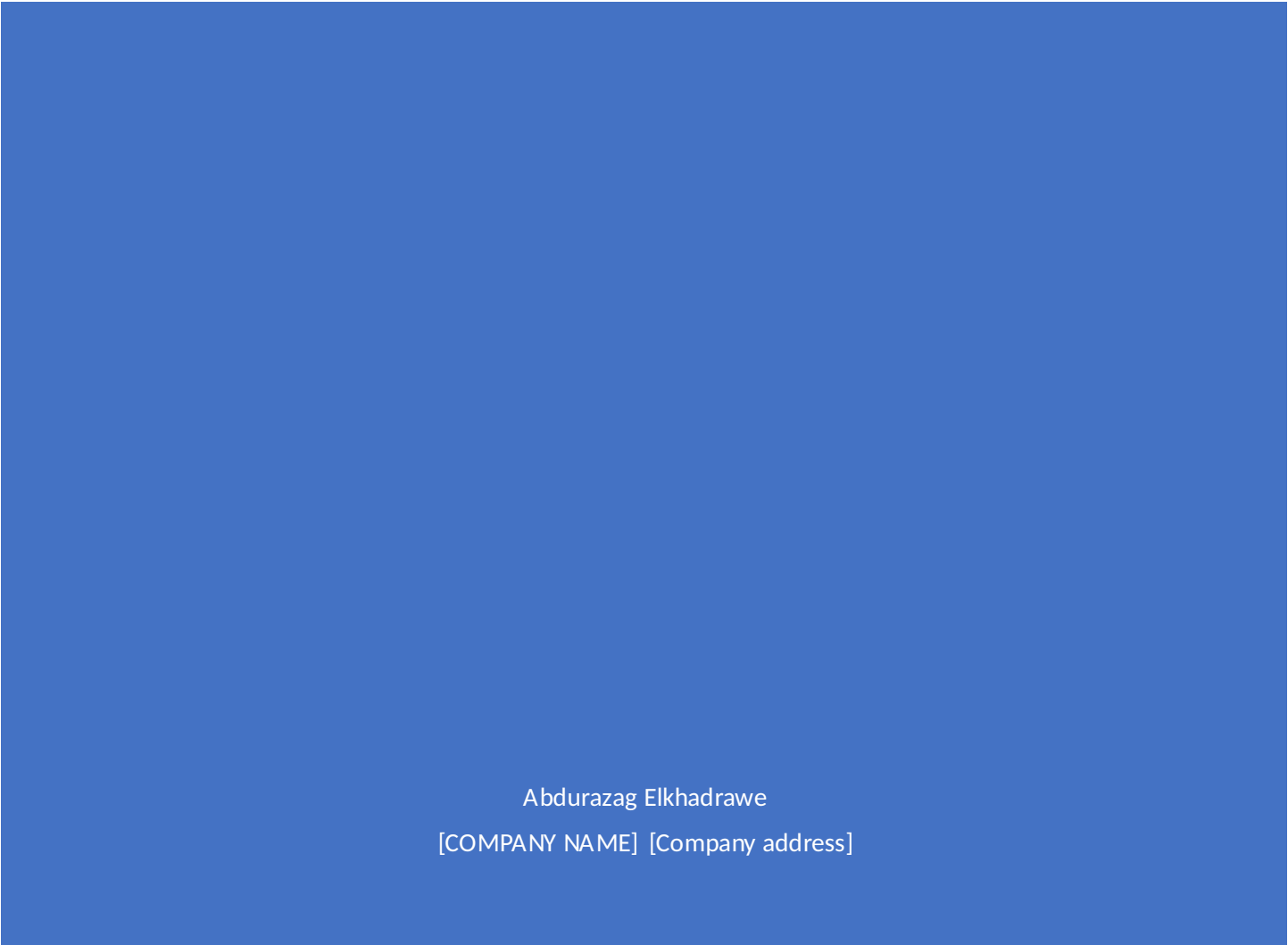




GREAT STANDARD CONSULTING LTDCORPORATE PROFILE 2026



Abdurazag Elkhadrawe
[COMPANY NAME] [Company address]

Engineering Smarter Energy Futures

Delivering Integrated Engineering Solutions for the Energy Transition, Infrastructure Transformation, and Sustainable Industrial Development

Great Standard Consulting Ltd is an engineering-led consulting and project leadership company supporting governments, utilities, infrastructure owners, industrial organisations, investors, developers, and international institutions in planning, delivering, modernising, and optimising complex engineering programmes.

Our work integrates engineering excellence, strategic advisory, project leadership, digital transformation, sustainability, and organisational capability development across the full project lifecycle.

Our Core Markets

Energy • Infrastructure • Industry • Digital Transformation

Our International Outlook

United Kingdom • Germany • Europe • Middle East • Africa • International Operations

Corporate Tagline

Engineering Smarter Energy Futures

Website

www.gscts.com

PAGE 2. COMPANY AT A GLANCE

Engineering Excellence for a Changing World

Great Standard Consulting Ltd, known as GSC, is an engineering-led consulting, strategic advisory, and project leadership company headquartered in the United Kingdom, with an operational presence in Germany and an international outlook.

We support governments, public authorities, utilities, infrastructure owners, industrial organisations, investors, developers, EPC contractors, technology providers, and international development institutions in planning and delivering complex engineering and infrastructure programmes.

Our multidisciplinary capabilities span energy systems, renewable energy, smart grids, battery energy storage, green hydrogen, industrial energy efficiency, digital transformation, artificial intelligence, infrastructure modernisation, project management, and organisational capability development.

GSC was established to address a growing challenge facing organisations worldwide: the increasing complexity of engineering and infrastructure investment.

Projects today must respond simultaneously to technical requirements, commercial constraints, digital transformation, sustainability objectives, regulatory expectations, operational resilience, and rapidly evolving technologies.

For this reason, our approach extends beyond traditional engineering consultancy.

We integrate:

- Engineering expertise
- Strategic planning
- Project and programme leadership
- Digital innovation
- Sustainability
- Risk management
- Organisational development
- Knowledge transfer

This integrated model enables us to support clients across the complete project lifecycle—from the earliest stages of strategic vision and feasibility through engineering, procurement, implementation, commissioning, operational optimisation, and continuous improvement.

Our objective is to help clients make informed decisions, reduce project risk, improve operational performance, strengthen organisational capability, and create sustainable long-term value.

Company Snapshot

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Corporate Information	Details
Company Name	Great Standard Consulting Ltd
Trading Name	GSC
Company Number	16520595
Legal Structure	Private Limited Company
Registered Office	London, United Kingdom
Operational Presence	Bonn, Germany
Business Model	Engineering Consultancy, Strategic Advisory and Project Leadership
Corporate Tagline	Engineering Smarter Energy Futures
Primary Markets	United Kingdom, Europe, Middle East and Africa
International Delivery	On-site, hybrid and remote consulting
Website	www.gscts.com
General Enquiries	contact@gscts.com
Business Development	sales@gscts.com
Training Enquiries	training@gscts.com

Our Core Capabilities

Engineering Excellence

Delivering technically robust, practical, safe, reliable, and sustainable engineering solutions.

Strategic Advisory

Helping leaders evaluate opportunities, make informed investment decisions, develop strategies, and manage complex transformation programmes.

Project Leadership

Providing project management, programme governance, PMO services, project controls, risk management, and delivery assurance.

Digital Transformation

Applying artificial intelligence, digital twins, advanced analytics, automation, intelligent monitoring, and data-driven decision-making.

Sustainability and Decarbonisation

Supporting renewable energy, industrial decarbonisation, energy efficiency, ESG objectives, and resilient infrastructure development.

Capacity Building

Developing organisational capability through executive education, professional training, knowledge transfer, mentoring, and institutional strengthening.

Core Service Areas

- Engineering Consulting
- Strategic Advisory
- Project Management and PMO
- Renewable Energy
- Smart Grids and Grid Modernisation
- Battery Energy Storage Systems
- Green Hydrogen and Power-to-X
- Industrial Energy Efficiency
- Infrastructure Modernisation
- Digital Transformation
- Artificial Intelligence
- Research and Innovation
- Sustainability and ESG Advisory
- Training and Executive Education
- Organisational Capacity Building

Who We Support

GSC works with organisations across the public and private sectors, including:

- Governments and ministries
- Public authorities and regulators
- Electricity, water, and energy utilities
- Transmission and distribution operators
- Renewable energy developers
- Industrial and manufacturing organisations
- Oil, gas, and petrochemical companies
- Infrastructure owners and developers
- Engineering and EPC contractors
- Investors and financial institutions
- Development banks and international organisations
- Universities and research institutions
- Technology providers and innovation partners

Our Commitment

We are committed to delivering solutions that are:

- Technically robust
- Strategically aligned
- Commercially practical
- Digitally enabled
- Environmentally responsible
- Operationally sustainable
- Focused on measurable outcomes

- Designed for long-term value

At a Glance

What We Bring

Engineering Expertise

Strategic Insight

Project Leadership

Digital Innovation

International Perspective

Knowledge Transfer

What Clients Gain

Better Decisions

Reduced Risk

Improved Performance

Stronger Governance

Greater Resilience

Sustainable Value

PAGE 3 . MESSAGE FROM THE MANAGING DIRECTOR

Building the Future Through Engineering Excellence

The global energy, infrastructure, and industrial sectors are entering a period of profound transformation.

The acceleration of renewable energy deployment, increasing electrification, the growth of artificial intelligence and digital technologies, expanding sustainability commitments, ageing infrastructure, evolving regulations, and rising expectations for resilience are changing how organisations plan, finance, deliver, and operate engineering projects.

These changes are creating significant opportunities. They are also introducing greater technical, financial, organisational, and strategic complexity.

Governments must modernise national infrastructure while balancing reliability, affordability, sustainability, and economic development.

Utilities must integrate renewable generation, battery storage, distributed energy resources, electric mobility, intelligent technologies, and increasingly complex operational requirements.

Industrial organisations must improve productivity, reduce energy consumption, strengthen resilience, modernise ageing assets, and progress towards lower-carbon operations.

Investors and infrastructure developers require reliable technical analysis, disciplined governance, and independent advice before committing capital to major programmes.

Great Standard Consulting Ltd was established to help organisations navigate these challenges with confidence.

Our ambition is not limited to providing isolated engineering studies or advisory reports. We seek to become a trusted long-term partner to our clients, supporting them from initial vision and strategic planning through feasibility, engineering, project leadership, implementation, commissioning, operational optimisation, and organisational development.

Our work is built around three defining principles:

Engineering Excellence

We believe that sound engineering is the foundation of every successful infrastructure, energy, and industrial project. Our recommendations are grounded in technical evidence, professional judgement, recognised standards, and practical implementation experience.

Strategic Advisory

Engineering decisions must support broader organisational, economic, financial, regulatory, and sustainability objectives. We therefore help clients understand not only what can be engineered, but also what should be prioritised, financed, implemented, and sustained.

Project Leadership

Even the strongest technical solution will not succeed without disciplined governance, effective planning, stakeholder coordination, risk management, and accountable delivery. We integrate engineering expertise with project and programme leadership to help clients transform strategy into successful outcomes.

Innovation is also central to our vision.

Artificial intelligence, digital twins, advanced analytics, automation, intelligent monitoring, and modern engineering platforms are creating new possibilities for improving asset performance, forecasting risk, strengthening operational resilience, and enabling faster and better-informed decisions.

At GSC, we do not view digital transformation as a replacement for engineering knowledge. We view it as a powerful means of extending engineering capability, improving decision-making, and creating more intelligent and resilient infrastructure.

Sustainability is equally fundamental to our work.

The transition towards cleaner energy, efficient industry, low-carbon infrastructure, and responsible resource use requires solutions that balance technical performance, commercial viability, environmental responsibility, and social value.

We aim to support projects that not only perform successfully today, but remain valuable, adaptable, and resilient throughout their operational life.

We also recognise that sustainable transformation ultimately depends on people.

For this reason, knowledge transfer, executive education, professional training, mentoring, research, and institutional capacity building are integral to our approach. We seek not only to deliver projects, but also to leave our clients with stronger systems, stronger teams, and greater capability to manage future challenges independently.

As Great Standard Consulting continues to develop internationally, our commitment remains clear:

- To provide independent and trusted professional advice.
- To deliver technically robust and practical engineering solutions.
- To lead projects with discipline, transparency, and accountability.
- To embrace innovation responsibly.
- To contribute to sustainable development.
- To build enduring relationships based on trust and shared success.

Our measure of success is not simply the completion of an assignment.

It is the lasting value created for our clients, the performance of the infrastructure we help develop, the capability strengthened within organisations, and the positive contribution made to industries, economies, and communities.

On behalf of Great Standard Consulting Ltd, I thank you for taking the time to learn more about our company.

We welcome the opportunity to work with organisations that share our commitment to engineering excellence, innovation, responsible leadership, and sustainable progress.

Together, we can transform complex challenges into practical solutions and ambitious visions into lasting achievements.

Dr. Abdurazag Elkhadrawe

Managing Director

Great Standard Consulting Ltd

Managing Director Profile Box

A concise leadership profile may be placed beside or below the message:

Dr. Abdurazag Elkhadrawe

Managing Director and Principal Consultant

Dr. Abdurazag Elkhadrawe is an electrical engineer, project management professional, consultant, researcher, and executive educator with approximately four decades of experience across power systems, energy projects, industrial engineering, project leadership, organisational development, and professional training.

His multidisciplinary background combines electrical engineering, business administration, construction project management, and doctoral-level research in power and energy projects.

His professional interests include:

- Power and energy systems
- Renewable energy
- Smart grids
- Project and programme management
- PMO development
- Industrial energy efficiency
- Digital transformation
- Artificial intelligence in engineering
- Research and innovation
- Executive education and capacity building

His leadership vision is focused on building GSC into a trusted international engineering and

strategic advisory company that combines technical excellence with practical implementation, responsible innovation, and sustainable development.

PAGE 4 .ABOUT GREAT STANDARD CONSULTING

Engineering Excellence Driving Sustainable Transformation

The world is entering a new era of engineering and infrastructure development. Rapid advances in technology, the acceleration of the energy transition, increasing demand for resilient infrastructure, and the growing importance of sustainability are transforming the way organisations plan, deliver, and operate complex projects.

These changes present unprecedented opportunities—but they also introduce new technical, operational, financial, and strategic challenges. Successfully navigating this evolving landscape requires more than technical expertise alone. It demands engineering excellence, strategic vision, disciplined project leadership, and the ability to integrate innovation with practical implementation.

Great Standard Consulting Ltd (GSC) was established to help organisations meet these challenges with confidence.

As an engineering-led consulting company, GSC brings together multidisciplinary expertise in engineering, strategic advisory, project leadership, and digital transformation. We work with governments, utilities, infrastructure owners, industrial organisations, developers, investors, and international institutions to design practical solutions that deliver measurable and lasting value.

Our role extends beyond traditional consulting. We support our clients throughout the complete project lifecycle—from strategy and feasibility through engineering design, procurement, programme management, implementation oversight, commissioning, operational optimisation, and continuous improvement. By combining technical excellence with strategic thinking and disciplined governance, we enable organisations to transform ambitious visions into successful and sustainable outcomes.

At GSC, we recognise that every client operates within a unique technical, commercial, regulatory, and organisational environment. For this reason, we do not offer standardised solutions. Instead, we develop tailored strategies and engineering approaches that align with each client's objectives, operational context, and long-term aspirations.

Our expertise covers a broad spectrum of sectors, including energy, infrastructure, industry, water, and public services. We support projects involving renewable energy, smart grids, battery energy storage systems, green hydrogen, industrial energy efficiency, digital transformation, artificial intelligence, infrastructure modernisation, and organisational capability development.

Innovation is embedded in everything we do. We believe that technologies such as artificial intelligence, digital twins, advanced analytics, automation, and intelligent asset management are reshaping the future of engineering. Our mission is to help clients harness these

technologies responsibly to improve decision-making, enhance operational resilience, optimise asset performance, and accelerate sustainable development.

Beyond engineering delivery, GSC is committed to strengthening institutional capability through executive advisory services, professional training, research, technical publications, and knowledge transfer. We believe that sustainable success is achieved not only by delivering projects but also by empowering organisations and their people with the knowledge, systems, and leadership required to thrive in an increasingly complex world.

At Great Standard Consulting Ltd, engineering is more than a technical discipline—it is a catalyst for innovation, resilience, sustainable development, and long-term economic growth. Every engagement reflects our commitment to professionalism, integrity, collaboration, and measurable impact.

As industries continue to evolve, GSC remains dedicated to helping clients transform complexity into opportunity and ambition into reality.

Our Purpose

To help organisations plan, deliver, modernise, and optimise complex engineering and infrastructure programmes through engineering excellence, strategic advisory, and project leadership.

Our Promise

We are committed to delivering solutions that are:

- Technically Robust
- Strategically Aligned
- Commercially Practical
- Environmentally Responsible
- Digitally Enabled
- Operationally Sustainable
- Focused on Long-Term Value

Executive Statement

Engineering creates the greatest value when technical excellence is combined with strategic vision, disciplined project leadership, and a commitment to sustainable outcomes. At Great Standard Consulting Ltd, this philosophy guides every project, every partnership, and every solution we deliver.

PAGE 5 . OUR VISION • MISSION • VALUES

Building the Future Through Engineering Excellence

At Great Standard Consulting Ltd, our purpose extends beyond delivering engineering consulting services. We are committed to enabling organisations to navigate the challenges of an increasingly complex world by combining engineering expertise, strategic advisory, innovation, and project leadership.

Our Vision, Mission, and Core Values define who we are, guide our decisions, and shape every client engagement.

OUR VISION

To be a globally recognised engineering-led consulting and project leadership company, empowering organisations to create resilient, intelligent, and sustainable infrastructure through engineering excellence, strategic innovation, and trusted partnerships.

We aspire to become the partner of choice for governments, utilities, infrastructure owners, industrial organisations, and international institutions seeking practical, innovative, and future-ready engineering solutions.

Our long-term ambition is to contribute meaningfully to the global transition toward cleaner energy systems, smarter infrastructure, stronger institutions, and sustainable economic development.

OUR MISSION

We help organisations plan, deliver, modernise, and optimise complex engineering and infrastructure programmes by integrating engineering excellence, strategic advisory, project leadership, and digital innovation.

Our mission is achieved by:

- Delivering technically sound and commercially practical engineering solutions.
- Supporting informed decision-making through independent strategic advisory services.
- Leading projects and programmes with disciplined governance and effective execution.
- Applying advanced technologies to improve operational performance and resilience.
- Developing organisational capability through knowledge transfer and professional training.
- Building long-term partnerships founded on trust, integrity, collaboration, and

measurable value.

OUR CORE VALUES

Our values define how we work, how we engage with our clients, and how we measure success.

Engineering Excellence

We pursue the highest standards of technical quality, professional competence, and engineering integrity in every project.

Integrity

We act ethically, transparently, and responsibly, earning the confidence of our clients, partners, and stakeholders through honesty and accountability.

Innovation

We embrace emerging technologies, modern engineering practices, and creative thinking to solve complex challenges and deliver sustainable solutions.

Client Partnership

We believe successful projects are built on collaboration. We work closely with our clients to understand their objectives and become trusted long-term partners.

Sustainability

We are committed to supporting environmentally responsible, economically viable, and socially beneficial solutions that create lasting value.

Leadership

We provide confident leadership, disciplined governance, and effective decision-making throughout the project lifecycle.

Continuous Improvement

We foster a culture of learning, innovation, and professional development, continually improving our knowledge, services, and performance.

Knowledge & Capacity Building

We believe that sustainable success is achieved by strengthening organisations through knowledge transfer, executive education, mentoring, and institutional development.

Our Guiding Principle

Engineering creates lasting value when technical excellence is integrated with strategic thinking, disciplined project leadership, innovation, and an unwavering commitment to sustainable development.

What These Principles Mean for Our Clients

For our clients, these principles translate into:

- Reliable engineering solutions.
- Independent and objective advice.
- Disciplined project delivery.
- Transparent communication.
- Reduced project risk.
- Long-term operational value.
- Trusted professional relationships.
- Sustainable and measurable outcomes.

PAGE 6 . OUR STRATEGIC POSITIONING

More Than Engineering Consultants — Your Strategic Partner for Engineering Transformation

The engineering and infrastructure sectors are undergoing unprecedented transformation. Organisations today must respond to increasing technical complexity, accelerating technological innovation, evolving regulatory requirements, sustainability objectives, and rising stakeholder expectations.

Meeting these challenges requires more than technical expertise. It requires an integrated approach that aligns engineering excellence with strategic planning, disciplined project leadership, digital innovation, organisational capability, and long-term operational performance.

At Great Standard Consulting Ltd (GSC), this integrated approach defines who we are.

We are not simply engineering consultants delivering isolated studies or technical reports. We are an engineering-led strategic consulting and project leadership company that partners with clients throughout the complete lifecycle of complex engineering and infrastructure programmes.

Our objective is not only to solve today's engineering challenges but also to strengthen our clients' long-term capability to deliver resilient, efficient, intelligent, and sustainable infrastructure.

By integrating engineering, strategy, governance, innovation, and implementation, we enable organisations to move confidently from ambition to achievement.

Our Position in the Market

Rather than operating within a single consulting discipline, GSC brings together multiple capabilities into one integrated service model.

Engineering Excellence

Delivering technically robust engineering solutions supported by international best practices, practical experience, and a commitment to quality.

Strategic Advisory

Supporting executive decision-makers through independent advice, strategic planning, feasibility studies, investment evaluation, policy development, and institutional transformation.

Project Leadership

Providing governance, programme management, PMO, project controls, risk management, stakeholder coordination, and delivery assurance throughout the project lifecycle.

Digital Transformation

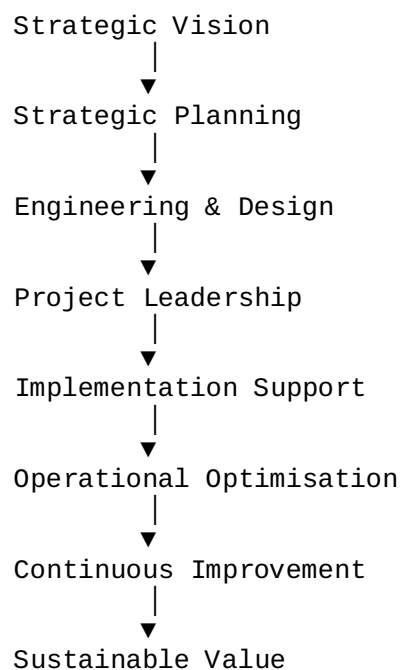
Helping organisations adopt intelligent technologies—including artificial intelligence, advanced analytics, digital twins, automation, and data-driven decision-making—to improve operational performance and resilience.

Organisational Capability Development

Strengthening institutions through executive education, professional training, mentoring, knowledge transfer, and capacity-building programmes that create sustainable internal capability.

Our Integrated Delivery Model

GSC follows an end-to-end delivery approach that supports clients throughout the entire project lifecycle.



This lifecycle perspective enables clients to maintain continuity, improve governance, reduce project risk, and maximise long-term value.

What Makes GSC Different

Engineering-Led Thinking

Engineering is at the heart of every solution, ensuring technical excellence and practical implementation.

Strategy Before Solutions

We begin by understanding our clients' strategic objectives before recommending technical solutions.

End-to-End Partnership

We remain engaged throughout the complete project lifecycle rather than supporting only individual project phases.

Digital by Design

We integrate digital technologies and data-driven approaches into engineering and project delivery from the outset.

Knowledge Transfer

Every engagement is designed to strengthen our clients' internal capability through mentoring, training, and collaborative working.

Sustainable Outcomes

Success is measured not only by project completion but also by long-term operational performance, resilience, and value creation.

Our Strategic Value Proposition

Great Standard Consulting Ltd helps governments, utilities, infrastructure owners, industrial organisations, and investors transform complex engineering challenges into sustainable business outcomes by integrating engineering excellence, strategic advisory, project leadership, and digital innovation throughout the complete project lifecycle.

Who We Work With

We partner with organisations that are shaping the future of infrastructure and sustainable development, including:

- National and regional governments
- Ministries and public agencies
- Electricity, water, and gas utilities
- Transmission and distribution system operators
- Renewable energy developers
- Industrial and manufacturing organisations
- Oil, gas, and energy companies
- Infrastructure developers and asset owners
- International financial institutions
- Development agencies and NGOs
- EPC contractors
- Technology providers
- Research institutions and universities
- Private investors and project sponsors

Executive Perspective

"True engineering leadership is achieved when technical excellence is combined with strategic insight, disciplined execution, digital innovation, and trusted partnerships. At Great Standard Consulting Ltd, this integrated philosophy defines every engagement and every outcome we deliver."

PAGE 7. WHY CHOOSE GREAT STANDARD CONSULTING

A Trusted Partner for Engineering Excellence, Strategic Advisory, and Project Leadership

Selecting the right consulting partner is one of the most important decisions in the lifecycle of any engineering or infrastructure programme. Beyond technical competence, successful projects require strategic insight, disciplined governance, practical implementation, and a commitment to delivering measurable outcomes.

At Great Standard Consulting Ltd (GSC), we combine these capabilities into an integrated approach that helps clients transform complex challenges into sustainable opportunities. We work alongside our clients as trusted advisors and long-term partners, providing independent expertise, innovative thinking, and delivery-focused leadership throughout every stage of the project lifecycle.

Our strength lies not only in what we do, but in how we do it. Every engagement is built on technical excellence, strategic collaboration, transparency, and a commitment to creating long-term value.

Why Organisations Partner with GSC

Engineering-Led Expertise

Engineering is the foundation of our business. Our recommendations are grounded in sound engineering principles, international standards, and practical experience, ensuring that every solution is technically robust, realistic, and aligned with operational needs.

Strategic Perspective

We look beyond immediate project requirements to understand our clients' long-term objectives. This enables us to develop solutions that support organisational growth, resilience, sustainability, and future readiness.

End-to-End Project Lifecycle Support

Unlike firms that focus on a single phase of a project, GSC provides integrated support from strategy and feasibility through engineering, procurement, implementation, commissioning, optimisation, and continuous improvement.

Independent and Objective Advice

Our recommendations are based on technical evidence, professional judgement, and the best interests of our clients. We maintain independence, integrity, and transparency in every engagement.

Project Leadership and Governance

Successful projects depend on effective leadership as much as technical capability. We help organisations establish robust governance structures, strengthen project controls, manage risk, and improve decision-making throughout the project lifecycle.

Innovation and Digital Transformation

We help clients embrace the future of engineering by integrating digital technologies such as artificial intelligence, digital twins, data analytics, intelligent automation, and advanced asset management into project delivery and operational improvement.

Knowledge Transfer and Capacity Building

Every project is an opportunity to strengthen our clients' internal capability. Through mentoring, executive advisory, technical training, and collaborative working, we leave behind stronger organisations—not just completed deliverables.

Commitment to Sustainability

We support our clients in delivering infrastructure that is technically resilient, environmentally responsible, economically viable, and socially beneficial. Sustainability is embedded within our engineering approach rather than treated as a separate consideration.

Our Commitment to Every Client

When partnering with Great Standard Consulting Ltd, our clients can expect:

- Engineering solutions built on international best practices.
- Independent and objective professional advice.
- Transparent communication and collaborative working.
- Disciplined project governance and delivery.
- Tailored solutions aligned with strategic objectives.
- Practical recommendations focused on implementation.
- Innovation that creates measurable value.
- Long-term partnerships based on trust and mutual success.

The Value We Deliver

Our objective is not simply to complete projects—it is to help our clients create lasting value.

We measure success by the outcomes our clients achieve:

- Improved operational performance.
- Stronger project governance.
- Reduced technical and commercial risk.
- Increased organisational capability.
- Better investment decisions.
- Greater infrastructure resilience.
- Accelerated digital transformation.
- Sustainable long-term impact.

At a Glance

What We Offer	The Benefit to Our Clients
Engineering Excellence	Reliable, technically sound solutions
Strategic Advisory	Better-informed decisions
Project Leadership	Strong governance and successful delivery
Digital Innovation	Smarter, data-driven operations
Capacity Building	Stronger internal capabilities
Sustainability	Long-term value and resilience
Independent Expertise	Trusted professional guidance
Integrated Services	Seamless support across the project lifecycle

Client-Centric Philosophy

We believe that successful consulting is measured not by the number of reports delivered, but by the lasting value created for our clients. Every recommendation we make, every project we lead, and every partnership we build is guided by one objective: enabling our clients to succeed with confidence.

PAGE 8. ENGINEERING EXCELLENCE

Engineering Solutions That Create Lasting Value

Engineering at the Core of Everything We Do

Engineering is the foundation upon which modern economies, resilient infrastructure, and sustainable development are built. As industries evolve and technologies advance, organisations require engineering partners capable of combining technical expertise with strategic insight, innovation, and disciplined project delivery.

At Great Standard Consulting Ltd (GSC), engineering is more than a technical function—it is the driving force behind our ability to transform ideas into practical, reliable, and future-ready solutions.

We apply engineering excellence across the complete project lifecycle, supporting clients from the earliest stages of strategic planning and feasibility through design, implementation, commissioning, optimisation, and long-term asset improvement.

Our multidisciplinary approach enables us to integrate engineering, project management, digital technologies, sustainability, and business strategy into cohesive solutions that deliver measurable technical and commercial value.

Whether supporting a renewable energy programme, a power system modernisation initiative, an industrial optimisation project, or a national infrastructure strategy, our objective remains the same: to deliver engineering solutions that improve performance, reduce risk, optimise investment, and support sustainable growth.

Our Engineering Philosophy

At GSC, engineering excellence is guided by six fundamental principles:

Technical Excellence

Delivering solutions that meet the highest standards of engineering quality, safety, reliability, and performance.

Systems Thinking

Understanding how technical, operational, commercial, environmental, and organisational factors interact to influence project success.

Innovation

Applying modern engineering methods, digital technologies, and emerging solutions to improve project outcomes and operational performance.

Sustainability

Designing engineering solutions that balance economic performance with environmental responsibility and long-term resilience.

Practical Delivery

Developing solutions that can be successfully implemented within real operational, financial, and regulatory constraints.

Continuous Improvement

Using operational feedback, performance data, and lessons learned to optimise engineering systems throughout their lifecycle.

Engineering Capabilities

Our engineering capabilities include:

Energy Systems Engineering

- Power generation
- Transmission systems
- Distribution networks
- Grid modernisation
- Smart grids
- Microgrids
- Hybrid energy systems

Renewable Energy Engineering

- Solar photovoltaic systems
- Wind energy
- Hybrid renewable systems
- Renewable integration studies
- Grid connection assessments
- Renewable project feasibility

Energy Storage Engineering

- Battery Energy Storage Systems (BESS)
- Grid-scale storage
- Hybrid storage solutions
- Energy management systems
- Storage feasibility studies
- Storage optimisation

Green Hydrogen Engineering

- Hydrogen production
- Electrolyser integration
- Hydrogen infrastructure
- Storage systems
- Feasibility studies
- Project development support

Industrial Engineering

- Industrial energy optimisation
- Electrical systems
- Process improvement
- Energy efficiency
- Plant modernisation
- Power quality improvement

Infrastructure Engineering

- Utility infrastructure
- Critical infrastructure
- Water and wastewater systems
- Transportation support systems
- Integrated infrastructure planning

Engineering Across the Project Lifecycle

Our engineering support extends across every phase of project development:

Project Phase	GSC Engineering Contribution
Strategic Planning	Technical strategy, infrastructure planning, investment advice
Feasibility	Technical feasibility studies, concept evaluation, options analysis
Concept Design	Engineering concepts and preliminary design
Detailed Design	Technical specifications, design reviews, engineering calculations
Procurement	Technical tender documentation and bid evaluation
Construction	Engineering supervision and technical support
Commissioning	Testing, validation, acceptance support
Operations	Performance optimisation, asset management, continuous improvement

Delivering Engineering Value

Our engineering approach helps clients achieve:

- Improved technical performance
- Increased system reliability
- Better investment decisions
- Reduced project risk

- Enhanced operational efficiency
- Lower lifecycle costs
- Increased energy efficiency
- Greater infrastructure resilience
- Sustainable long-term performance

Engineering Without Boundaries

Engineering challenges rarely exist in isolation. They involve technology, people, processes, governance, finance, regulation, and sustainability.

For this reason, GSC combines engineering expertise with strategic advisory, project leadership, and digital innovation to deliver integrated solutions that address the complete challenge—not just its technical components.

Engineering Excellence in Practice

Engineering is reflected not only in our technical deliverables but also in the way we engage with clients. We believe that successful engineering requires collaboration, transparency, and a clear understanding of the operational environment. Every assignment is approached with a commitment to delivering solutions that are practical to implement, resilient in operation, and aligned with the client's strategic objectives.

Our engineers and consultants work closely with stakeholders throughout the project lifecycle to ensure that technical decisions support business outcomes, regulatory compliance, and long-term asset performance. This collaborative approach enables us to bridge the gap between engineering theory and real-world implementation.

Executive Statement

Engineering excellence is not measured solely by technical precision. It is measured by the value it creates—through resilient infrastructure, informed decisions, efficient operations, and sustainable outcomes that endure for generations.

PAGE 9. STRATEGIC ADVISORY

Transforming Strategy into Sustainable Results

Helping Leaders Make Better Engineering Decisions

Today's organisations operate in an increasingly complex environment where engineering decisions are closely linked with financial performance, regulatory compliance, environmental responsibility, digital transformation, and long-term competitiveness.

Making the right decisions requires more than technical knowledge. It requires independent advice, strategic insight, multidisciplinary thinking, and a clear understanding of how engineering investments support broader organisational objectives.

At Great Standard Consulting Ltd (GSC), our Strategic Advisory services help governments, utilities, industrial organisations, infrastructure owners, and investors make informed decisions throughout the planning, development, and delivery of complex engineering programmes.

We work closely with executive leadership, boards, project sponsors, regulators, and technical teams to evaluate opportunities, manage uncertainty, optimise investments, and develop practical strategies that create long-term value.

Our advisory approach is objective, evidence-based, and tailored to each client's strategic priorities. Every recommendation is supported by engineering analysis, business understanding, risk assessment, and international best practices.

Rather than providing generic recommendations, we deliver actionable strategies that can be implemented successfully within each client's operational, financial, regulatory, and organisational context.

Our Strategic Advisory Services

Engineering Strategy

Developing long-term engineering roadmaps that align technical development with organisational goals.

Infrastructure Planning

Supporting national, regional, and corporate infrastructure planning through integrated technical and investment strategies.

Feasibility Studies

Assessing technical, commercial, environmental, and operational viability before investment decisions are made.

Business Case Development

Preparing robust business cases that demonstrate technical feasibility, financial justification, risk profile, and expected benefits.

Investment Advisory

Supporting investors, governments, and project developers in evaluating engineering investments and infrastructure opportunities.

Policy and Regulatory Advisory

Providing technical input to policy development, regulatory reform, standards implementation, and institutional strengthening.

Organisational Transformation

Helping organisations modernise governance structures, operating models, engineering functions, and project delivery capabilities.

Technical Due Diligence

Conducting independent technical assessments for acquisitions, financing, partnerships, and major capital investments.

Our Advisory Approach

Every engagement follows a structured methodology:

Understand

Analyse strategic objectives, organisational priorities, and stakeholder expectations.

↓

Assess

Evaluate technical performance, risks, opportunities, regulatory requirements, and investment needs.

↓

Develop

Prepare practical strategies, engineering options, and implementation roadmaps.

↓

Validate

Review recommendations through stakeholder engagement, technical analysis, and scenario evaluation.

↓

Implement

Support implementation through governance, project leadership, and ongoing advisory services.

↓

Improve

Monitor outcomes, evaluate performance, and continuously refine strategic direction.

Typical Advisory Deliverables

- National Energy Strategies
- Infrastructure Master Plans
- Engineering Roadmaps
- Decarbonisation Strategies
- Digital Transformation Strategies
- Smart Grid Roadmaps
- Investment Appraisals
- Feasibility Studies
- Technical Due Diligence Reports
- Policy Advisory Papers
- Business Cases
- Organisational Assessments
- Capacity Development Strategies
- Executive Decision Papers

Value Delivered to Clients

Our strategic advisory services enable organisations to:

- Make informed investment decisions.
- Reduce technical and commercial uncertainty.
- Improve governance and strategic planning.
- Optimise capital allocation.
- Accelerate infrastructure transformation.
- Enhance organisational resilience.
- Strengthen stakeholder confidence.

- Support sustainable long-term growth.

Industries We Support

Our advisory expertise spans multiple sectors, including:

- Energy and Utilities
- Renewable Energy
- Power Transmission and Distribution
- Oil and Gas
- Water and Wastewater
- Industrial Manufacturing
- Smart Cities
- Public Infrastructure
- Transportation
- Government and Public Administration
- International Development Programmes

Why GSC?

Unlike traditional consulting firms that separate technical engineering from strategic planning, GSC integrates both disciplines into one advisory model.

Our recommendations are not only technically sound but also commercially practical, operationally achievable, and aligned with long-term organisational objectives.

This integrated perspective enables our clients to move from strategy to implementation with confidence.

Executive Perspective

Effective strategy is built on informed decisions. In engineering and infrastructure, those decisions must balance technical excellence, financial responsibility, sustainability, risk, and long-term value. Our role is to help clients make those decisions with confidence.

PAGE 10 . PROJECT LEADERSHIP & PMO

Delivering Projects with Confidence

Turning Strategy into Successful Delivery

Engineering excellence provides the technical foundation of successful projects, but technical excellence alone does not guarantee success. Around the world, many major infrastructure and capital projects experience cost overruns, schedule delays, scope changes, governance challenges, and operational risks—not because of inadequate engineering, but because of weaknesses in project leadership, decision-making, stakeholder alignment, and programme governance.

At Great Standard Consulting Ltd (GSC), we believe that successful projects require strong leadership from concept to completion.

Our Project Leadership services integrate governance, programme management, project controls, risk management, commercial awareness, and stakeholder engagement into a disciplined framework that supports predictable and successful project delivery.

Whether supporting a national infrastructure programme, a renewable energy development, an industrial modernisation initiative, or a complex engineering project, our objective is to provide the leadership, systems, and governance necessary to achieve successful outcomes while maintaining transparency, accountability, and strategic alignment.

Our Project Leadership Philosophy

At GSC, Project Leadership extends far beyond project administration.

It is the ability to align people, processes, technology, governance, and decision-making throughout the entire project lifecycle.

Our approach ensures that every project remains aligned with its strategic objectives while effectively managing cost, schedule, quality, safety, sustainability, and stakeholder expectations.

Our Project Leadership Services

Project Management

Planning, coordinating, monitoring, and controlling projects from initiation through successful completion.

Programme Management

Managing multiple interrelated projects to maximise strategic value, optimise resources, and achieve organisational objectives.

PMO Establishment & Improvement

Designing, implementing, and enhancing Project Management Offices (PMOs) that improve governance, consistency, reporting, and portfolio performance.

Project Governance

Developing governance structures, decision-making frameworks, steering committees, assurance processes, and reporting mechanisms that strengthen accountability and oversight.

Project Controls

Establishing integrated systems for cost control, scheduling, progress measurement, forecasting, earned value management, and performance reporting.

Risk Management

Identifying, assessing, mitigating, and monitoring technical, commercial, operational, environmental, and strategic risks throughout the project lifecycle.

Contract & Commercial Support

Supporting procurement strategies, tender evaluation, contract administration, change management, and commercial decision-making.

Stakeholder Management

Facilitating communication, collaboration, and alignment between clients, contractors, regulators, investors, communities, and other project stakeholders.

Our Delivery Framework

Every project follows a structured governance model.

Strategic Alignment

Confirm that project objectives support organisational strategy.

↓

Planning

Develop integrated scope, schedule, budget, risk, quality, procurement, and communication

plans.

↓

Execution

Coordinate engineering, procurement, construction, commissioning, and stakeholder activities.

↓

Monitoring & Control

Track performance using KPIs, dashboards, project controls, risk registers, and governance reviews.

↓

Optimisation

Resolve issues proactively, implement improvements, and maintain project momentum.

↓

Successful Delivery

Achieve agreed objectives while creating sustainable operational and organisational value.

PMO Excellence

GSC assists organisations in establishing modern PMOs that provide:

- Portfolio governance
- Project prioritisation
- Standardised methodologies
- Project reporting
- Resource planning
- Risk oversight
- Benefits realisation
- Performance dashboards
- Executive decision support
- Lessons learned management
- Organisational maturity improvement

Digital Project Leadership

Modern project leadership increasingly relies on digital technologies.

GSC supports clients in integrating:

- Digital project dashboards
- AI-assisted project analytics
- BIM integration
- Digital twins
- Portfolio management platforms
- Predictive risk analytics
- Performance monitoring systems
- Collaborative digital workspaces
- Executive reporting platforms

These capabilities enhance visibility, improve decision-making, and enable proactive management of complex engineering programmes.

Typical Deliverables

Our Project Leadership services may include:

- Project Execution Plans (PEPs)
- Programme Management Plans
- PMO Frameworks
- Governance Manuals
- Risk Management Plans
- Project Control Procedures
- Master Schedules
- Cost Management Frameworks
- KPI Dashboards
- Executive Progress Reports
- Lessons Learned Reports
- Project Recovery Plans
- Portfolio Assessments
- Maturity Assessments

Client Benefits

By partnering with GSC, organisations can achieve:

- Stronger governance and accountability.
- Improved project predictability.
- Better cost and schedule performance.
- Enhanced decision-making.
- Reduced project risk.
- Greater stakeholder confidence.
- Higher organisational maturity.
- Successful delivery of strategic objectives.

Why GSC?

Our strength lies in combining engineering expertise with internationally recognised project

management principles.

Rather than managing projects as isolated activities, we view every project as a strategic investment that must deliver measurable business, operational, and societal value.

This integrated perspective enables us to provide leadership that extends beyond project delivery to organisational transformation and long-term performance improvement.

Executive Perspective

Successful engineering projects are not defined solely by what is built, but by how effectively they are led. Strong governance, disciplined execution, informed decision-making, and collaborative leadership transform complex programmes into lasting success.

PAGE 11 . RENEWABLE ENERGY SOLUTIONS

Accelerating the Transition to Clean, Secure, and Sustainable Energy

Engineering the Future of Renewable Energy

The global transition towards low-carbon energy systems is transforming the way electricity is generated, transmitted, distributed, and consumed. Governments, utilities, industries, and investors are accelerating investments in renewable energy to improve energy security, reduce carbon emissions, strengthen economic resilience, and meet long-term sustainability objectives.

Successfully delivering renewable energy projects requires far more than selecting the appropriate technology. It demands comprehensive engineering expertise, strategic planning, grid integration, project leadership, financial evaluation, environmental responsibility, and long-term operational optimisation.

At Great Standard Consulting Ltd (GSC), we help clients transform renewable energy ambitions into reliable, bankable, and high-performing infrastructure.

Our multidisciplinary expertise supports every stage of renewable energy development—from initial strategy and feasibility studies to engineering design, project delivery, commissioning, operational optimisation, and asset performance improvement.

We combine engineering excellence with strategic advisory and project leadership to deliver renewable energy solutions that are technically robust, commercially viable, and aligned with national and organisational sustainability goals.

Our Renewable Energy Expertise

Solar Photovoltaic (PV)

We provide comprehensive engineering and advisory services for utility-scale, commercial, industrial, and distributed solar photovoltaic systems.

Our capabilities include:

- Solar resource assessment
- Energy yield analysis
- Site suitability assessment
- PV system design
- Electrical system design
- Grid connection studies
- Battery integration

- Technical specifications
- Owner's engineering
- Construction supervision
- Performance optimisation

Wind Energy

Supporting onshore and offshore wind developments through engineering advisory and project management services.

Services include:

- Wind resource assessment
- Feasibility studies
- Grid integration
- Electrical infrastructure
- Balance of Plant coordination
- Technical due diligence
- Project management
- Operational optimisation

Hybrid Renewable Energy Systems

Modern energy systems increasingly integrate multiple technologies.

GSC supports:

- Solar + Battery
- Wind + Battery
- Solar + Wind
- Solar + Diesel
- Microgrids
- Hybrid industrial power systems
- Remote community electrification

Distributed Energy Resources (DER)

We assist organisations in integrating distributed energy resources into existing electricity networks.

This includes:

- Rooftop PV
- Battery systems
- Electric vehicle charging
- Demand response
- Smart energy management
- Distributed generation planning

Our Renewable Energy Services

Our services include:

Strategic Planning

Renewable energy roadmaps

National renewable strategies

Corporate decarbonisation plans

Engineering

Concept design

Detailed engineering

Electrical systems

Protection studies

Grid connection

Technical Advisory

Technology selection

Owner's engineer

Independent engineering reviews

Technical due diligence

Project Leadership

Project management

Programme management

Risk management

Construction monitoring

Contract administration

Operational Optimisation

Performance assessment

Asset management

Predictive maintenance

Digital monitoring

Energy analytics

Lifecycle optimisation

Engineering Across the Renewable Project Lifecycle

Project Stage	GSC Contribution
Strategy	Renewable energy planning and policy support
Feasibility	Technical, commercial, environmental evaluation
Development	Engineering design and project preparation
Procurement	Technical specifications and bid evaluation
Construction	Engineering supervision and project management
Commissioning	Testing, validation, and acceptance
Operation	Performance monitoring and optimisation
Asset Improvement	Digitalisation and lifecycle enhancement

Digital Renewable Energy

Renewable energy projects increasingly rely on intelligent technologies.

GSC supports clients through:

- Artificial Intelligence
- Digital Twins
- SCADA Integration
- Remote Monitoring
- Predictive Maintenance
- Energy Forecasting
- Performance Analytics
- Smart Asset Management

These technologies enable operators to improve energy production, reduce downtime, optimise maintenance, and maximise long-term asset value.

Why GSC?

Renewable energy projects are no longer standalone generation assets.

They are integral components of intelligent energy ecosystems that must interact seamlessly

with electricity networks, energy storage systems, industrial facilities, digital platforms, and evolving market structures.

GSC provides an integrated perspective that combines engineering excellence, strategic planning, project leadership, and digital innovation to help clients deliver renewable energy projects that are technically resilient, economically viable, and operationally sustainable.

Typical Clients

We support:

- Governments
- Utilities
- Independent Power Producers (IPPs)
- Renewable Energy Developers
- Industrial Organisations
- Commercial Property Owners
- Infrastructure Investors
- Development Banks
- EPC Contractors
- International Organisations

Executive Perspective

Renewable energy is not simply about generating clean electricity. It is about building intelligent, resilient, and sustainable energy systems that will power economies, industries, and communities for generations to come.

Featured Engineering Expertise

Utility-Scale Solar PV

Design, engineering, feasibility, owner's engineering, project management, and performance optimisation for large-scale photovoltaic power plants.

Commercial & Industrial Renewable Energy

Integrated renewable energy solutions supporting industrial decarbonisation, energy security, operational efficiency, and cost optimisation.

Hybrid Energy Systems

Engineering integrated solutions combining renewable generation, energy storage, conventional generation, and intelligent control systems to maximise reliability and efficiency.

Renewable Energy Integration

Supporting the successful integration of renewable generation into existing electricity networks through system studies, grid compliance, power quality analysis, and operational optimisation.

PAGE 12 . SMART GRIDS & GRID MODERNISATION

Building the Intelligent Electricity Networks of Tomorrow

Transforming Power Systems for a Digital and Sustainable Future

The electricity sector is undergoing its most significant transformation since the development of modern power networks.

The rapid growth of renewable energy, battery energy storage systems, distributed energy resources, electric vehicles, digital technologies, artificial intelligence, and increasing electricity demand is fundamentally changing how power systems are planned, operated, and managed.

Traditional electricity networks were designed for predictable demand, centralised generation, and one-way power flows. Today's power systems must operate within a far more dynamic environment characterised by distributed generation, bidirectional power flows, real-time decision-making, cybersecurity challenges, and increasing expectations for reliability and resilience.

This transformation requires more than incremental upgrades—it demands intelligent, flexible, and digitally enabled electricity networks capable of supporting the energy systems of the future.

At Great Standard Consulting Ltd (GSC), we help governments, utilities, system operators, and infrastructure owners modernise electricity networks through engineering excellence, strategic advisory, digital innovation, and project leadership.

We support clients in developing resilient, efficient, secure, and future-ready grid infrastructures that enable the successful integration of renewable energy while maintaining reliability, operational efficiency, and long-term sustainability.

Our Smart Grid Expertise

Grid Modernisation Strategy

Supporting utilities and governments in developing long-term strategies for modernising

transmission and distribution networks.

Our services include:

- Grid Modernisation Roadmaps
- Asset Modernisation Strategies
- Network Development Planning
- Investment Prioritisation
- Regulatory Support
- Technology Assessment

Renewable Energy Integration

Helping electricity networks accommodate increasing levels of renewable generation safely and efficiently.

Capabilities include:

- Grid Integration Studies
- Hosting Capacity Analysis
- Power System Studies
- Grid Connection Assessments
- Grid Code Compliance
- Renewable Energy Planning

Distribution Network Modernisation

Supporting the transition from passive distribution systems to intelligent and flexible distribution networks.

Services include:

- Distribution Automation
- Network Reconfiguration
- Fault Management
- Voltage Optimisation
- Loss Reduction
- Reliability Improvement

Transmission System Development

Engineering support for modern transmission infrastructure including:

- Network Expansion
- Substation Modernisation
- Transmission Planning
- Protection Coordination
- Grid Stability
- Asset Renewal

Smart Grid Technologies

Integrating advanced technologies including:

- Advanced Metering Infrastructure (AMI)
- SCADA Systems
- Distribution Management Systems (DMS)
- Energy Management Systems (EMS)
- Wide Area Monitoring Systems (WAMS)
- Phasor Measurement Units (PMUs)
- Intelligent Electronic Devices (IEDs)
- Advanced Distribution Automation

Digital Grid Transformation

Modern electricity networks rely on intelligent digital platforms that enable operators to manage increasingly complex systems.

GSC supports digital transformation through:

Artificial Intelligence

Forecasting electricity demand, predicting equipment failures, supporting operational decision-making, and optimising grid performance.

Digital Twins

Creating virtual models of power systems for planning, simulation, predictive maintenance, and operational optimisation.

Advanced Analytics

Transforming operational data into actionable intelligence that improves asset performance, investment planning, and network reliability.

IoT and Smart Sensors

Providing real-time visibility into network performance, equipment condition, and operational status.

Predictive Maintenance

Moving from reactive maintenance to condition-based asset management using advanced monitoring technologies and data analytics.

Our Grid Modernisation Framework

Every grid transformation programme follows a structured approach:

Assess

Evaluate existing infrastructure, operational performance, asset condition, and future challenges.



Plan

Develop strategic roadmaps aligned with national policies, regulatory requirements, and investment priorities.



Design

Prepare engineering solutions that support future grid flexibility, resilience, and digital capability.



Implement

Provide project leadership, engineering oversight, governance, and stakeholder coordination.



Optimise

Improve operational performance using digital technologies, automation, advanced analytics, and continuous improvement.



Future Ready

Deliver intelligent, resilient, secure, and sustainable electricity networks prepared for future energy demands.

Key Challenges We Help Solve

Utilities worldwide face significant challenges, including:

- Increasing renewable energy penetration.
- Grid congestion.
- Ageing infrastructure.
- Rising electricity demand.
- Electric vehicle integration.

- Energy storage deployment.
- Cybersecurity threats.
- Limited operational visibility.
- Regulatory transformation.
- Climate resilience.
- Investment optimisation.
- Workforce transformation.

Our multidisciplinary approach enables clients to address these challenges through integrated engineering, digital transformation, and strategic planning.

Typical Deliverables

- Smart Grid Roadmaps
- Grid Modernisation Strategies
- Renewable Integration Studies
- Power System Studies
- Distribution Planning Reports
- Transmission Expansion Plans
- Asset Management Strategies
- Digital Transformation Frameworks
- SCADA Modernisation Plans
- AMI Implementation Strategies
- Grid Resilience Assessments
- Cybersecurity Readiness Reviews
- Investment Business Cases

Client Benefits

By partnering with GSC, organisations can achieve:

- Increased grid reliability.
- Enhanced operational resilience.
- Greater renewable energy integration.
- Improved asset utilisation.
- Better operational visibility.
- Reduced network losses.
- Enhanced customer service.
- Stronger cybersecurity preparedness.
- Better investment decisions.
- Long-term infrastructure sustainability.

Why GSC?

We view the electricity grid not as a collection of individual assets, but as an intelligent, interconnected ecosystem.

By combining engineering expertise with strategic advisory, project leadership, and digital innovation, we help utilities transform traditional networks into adaptive, data-driven, and

future-ready energy systems.

Our integrated approach ensures that technical decisions are aligned with operational objectives, regulatory expectations, investment priorities, and long-term sustainability goals.

Executive Perspective

The future grid is not defined solely by new infrastructure. It is defined by intelligence, flexibility, resilience, and the ability to adapt continuously to changing technologies, markets, and societal needs. Building that future requires engineering excellence combined with digital innovation and strategic leadership.

Featured Focus Areas

Future Grid Architecture

Designing modern electricity networks capable of supporting renewable energy, distributed resources, digital technologies, and evolving customer needs.

Grid Intelligence

Applying artificial intelligence, automation, advanced analytics, and digital twins to improve system awareness, operational efficiency, and decision-making.

Infrastructure Resilience

Enhancing the ability of electricity networks to withstand extreme weather, cyber threats, equipment failures, and increasing operational complexity.

Sustainable Grid Transformation

Supporting utilities in delivering reliable, affordable, low-carbon electricity systems that enable long-term economic and environmental sustainability.

PAGE 13 . BATTERY ENERGY STORAGE SYSTEMS (BESS)

Enabling a Flexible, Reliable, and Resilient Energy Future

Energy Storage as the Foundation of the Modern Power System

The transition towards low-carbon energy systems is fundamentally changing the role of electricity networks. As renewable energy generation increases and electricity demand becomes more dynamic, maintaining grid stability, reliability, and operational flexibility has become one of the greatest challenges facing utilities, governments, and industrial organisations.

Battery Energy Storage Systems (BESS) have emerged as one of the most important enabling technologies of this transformation.

Far beyond simply storing electricity, modern energy storage systems improve grid flexibility, enhance renewable energy integration, strengthen energy security, optimise infrastructure investment, and create new opportunities for intelligent energy management.

At Great Standard Consulting Ltd (GSC), we support clients in planning, engineering, integrating, and optimising battery energy storage solutions that deliver technical excellence, commercial value, and long-term operational resilience.

Our expertise spans the complete lifecycle of energy storage projects—from strategic planning and feasibility studies through engineering design, procurement support, project management, commissioning, operational optimisation, and asset performance improvement.

Our Energy Storage Expertise

Utility-Scale Battery Storage

Supporting transmission operators, distribution companies, utilities, and renewable energy developers in deploying large-scale battery energy storage systems.

Typical applications include:

- Grid support
- Renewable energy integration
- Peak shaving
- Frequency regulation
- Reserve capacity
- Voltage support
- Congestion management
- Black start capability

Commercial & Industrial Energy Storage

Helping industrial facilities and commercial organisations improve operational performance through intelligent energy storage solutions.

Applications include:

- Demand charge reduction
- Energy cost optimisation
- Backup power
- Renewable energy integration
- Power quality improvement
- Operational resilience
- Microgrid support

Hybrid Energy Systems

Integrating storage with multiple generation technologies including:

- Solar PV + BESS
- Wind + BESS
- Solar + Wind + BESS
- Diesel + BESS
- Hydrogen + BESS
- Microgrids
- Industrial hybrid systems

Microgrid Energy Storage

Supporting resilient and autonomous energy systems for:

- Remote communities
- Industrial facilities
- Universities
- Hospitals
- Military installations
- Data centres

- Critical infrastructure

Our Energy Storage Services

Strategic Planning

Energy storage roadmaps

Grid flexibility strategies

National storage policies

Investment planning

Technical Advisory

Technology selection

Battery technology assessment

Independent engineering

Owner's engineer

Technical due diligence

Engineering Design

Electrical engineering

Control systems

Protection systems

Grid integration

Safety engineering

Fire protection concepts

Project Leadership

Project management

Programme management

Procurement support

Construction supervision

Commissioning management

Operational Optimisation

Performance analytics

Battery health assessment

Energy management optimisation

Lifecycle management

Predictive maintenance

Digital monitoring

Battery Technologies

GSC provides independent technical guidance on a wide range of battery technologies, including:

- Lithium-Ion (LFP, NMC)
- Sodium-Ion
- Flow Batteries
- Solid-State Batteries
- Hybrid Storage Solutions
- Emerging Energy Storage Technologies

Our technology recommendations are based on project objectives, lifecycle performance, safety, environmental considerations, operational requirements, and total cost of ownership.

Engineering Across the Storage Lifecycle

Project Phase	GSC Contribution
Strategy	Storage roadmaps and investment planning
Feasibility	Technical and economic evaluation
Engineering	System design and integration
Procurement	Technical specifications and bid evaluation
Construction	Engineering support and supervision
Commissioning	Testing and performance validation
Operations	Performance optimisation and asset management
Repowering	Lifecycle assessment and technology upgrades

Digital Energy Storage

Modern storage systems increasingly rely on intelligent software platforms.

GSC supports:

- AI-based battery optimisation
- Battery Management Systems (BMS)
- Energy Management Systems (EMS)
- Predictive maintenance
- Digital twins
- Performance forecasting
- Remote diagnostics
- Real-time monitoring
- Cybersecurity integration

These technologies maximise operational efficiency, improve asset utilisation, and extend battery life.

Why GSC?

Energy storage should never be considered an isolated asset.

It is a strategic component of an integrated energy ecosystem that includes renewable generation, transmission and distribution networks, industrial operations, electric mobility, and digital energy platforms.

GSC's multidisciplinary approach combines engineering excellence, digital innovation, project leadership, and strategic advisory to deliver energy storage solutions that are technically resilient, economically justified, operationally efficient, and future-ready.

Typical Applications

We support battery energy storage for:

- National Utilities
- Transmission System Operators (TSOs)
- Distribution System Operators (DSOs)
- Renewable Energy Developers
- Industrial Facilities
- Manufacturing Plants
- Commercial Buildings
- Data Centres
- Airports
- Ports
- Hospitals
- Universities
- Government Infrastructure
- Defence Facilities

Client Benefits

By implementing well-designed energy storage systems, our clients can achieve:

- Improved grid flexibility.
- Enhanced renewable energy utilisation.
- Reduced peak demand costs.
- Increased energy security.
- Greater operational resilience.
- Better power quality.
- Lower carbon emissions.
- Deferred network reinforcement.
- Enhanced return on investment.
- Long-term asset value.

Executive Perspective

Battery Energy Storage Systems are transforming electricity networks from passive infrastructures into intelligent, flexible, and responsive energy ecosystems. Their true value lies not only in storing energy, but in enabling a more resilient, sustainable, and digitally connected power system.

Featured Focus Areas

Grid-Scale Storage

Supporting the deployment of utility-scale battery systems that enhance grid stability, facilitate renewable integration, and improve operational flexibility.

Industrial Energy Storage

Delivering storage solutions that optimise industrial energy costs, improve reliability, and strengthen operational resilience.

Renewable Energy Integration

Combining battery storage with renewable energy assets to maximise clean energy utilisation and minimise curtailment.

Intelligent Energy Management

Applying advanced analytics, AI, and digital control systems to optimise battery operation, extend asset life, and maximise economic value.

PAGE 14 . GREEN HYDROGEN & POWER-TO-X

Engineering the Hydrogen Economy of Tomorrow

Enabling the Next Generation of Sustainable Energy Systems

As countries accelerate their transition towards net-zero economies, green hydrogen is emerging as one of the most important solutions for decarbonising sectors where direct electrification is difficult or economically impractical.

Heavy industry, steel production, chemicals, aviation, shipping, heavy transport, and seasonal energy storage increasingly require clean energy carriers capable of delivering flexibility, reliability, and long-duration energy storage.

Green hydrogen is becoming a cornerstone of this transformation.

Produced using renewable electricity and water through electrolysis, green hydrogen enables renewable energy to be converted into a versatile energy carrier that can be stored, transported, and utilised across multiple sectors.

At Great Standard Consulting Ltd (GSC), we help governments, investors, utilities, industrial organisations, and infrastructure developers plan, evaluate, and deliver green hydrogen projects that are technically robust, commercially viable, and strategically aligned with national energy transition objectives.

Our multidisciplinary expertise spans the complete hydrogen value chain—from renewable energy integration and hydrogen production to storage, transportation, utilisation, infrastructure planning, and Power-to-X applications.

Our Green Hydrogen Expertise

Hydrogen Strategy

Supporting governments and organisations in developing national and corporate hydrogen strategies.

Services include:

- Hydrogen roadmaps
- National hydrogen strategies
- Market assessments
- Policy support
- Investment planning
- Infrastructure planning

Green Hydrogen Production

Engineering support for:

- Electrolyser selection
- Renewable energy integration
- Water supply assessment
- Electrical infrastructure
- Plant configuration
- Performance optimisation

Hydrogen Storage

Supporting storage solutions including:

- Compressed hydrogen
- Liquid hydrogen
- Underground storage
- Hybrid storage systems
- Buffer storage
- Strategic storage planning

Hydrogen Transportation

Engineering advisory for:

- Pipelines
- Tube trailers
- Shipping
- Export terminals
- Port infrastructure
- Distribution networks

Hydrogen Utilisation

Supporting applications in:

- Power generation
- Industrial processes
- Fertilisers
- Green steel
- Refineries
- Heavy transport
- Maritime
- Aviation
- District energy systems

Power-to-X Solutions

Power-to-X technologies convert renewable electricity into valuable products that support decarbonisation across multiple industries.

GSC supports:

Power-to-Hydrogen

Renewable electricity → Hydrogen

Power-to-Ammonia

Hydrogen → Green Ammonia

Power-to-Methanol

Hydrogen → Synthetic Methanol

Power-to-Fuels

Sustainable aviation fuels

Synthetic fuels

e-Fuels

Power-to-Chemicals

Green industrial feedstocks

Carbon-neutral chemical production

Our Services

We support clients through every phase of hydrogen project development.

Strategic Planning

Hydrogen strategies

Roadmaps

National master plans

Feasibility Studies

Technical

Commercial

Financial

Environmental

Risk assessments

Engineering

Concept design

Electrical engineering

Infrastructure planning

Grid integration

Balance of Plant

Project Leadership

Programme management

Owner's engineering

Procurement support

Construction oversight

Commissioning

Operational Optimisation

Digital monitoring

Performance assessment

Predictive maintenance

Asset management

Lifecycle optimisation

Hydrogen Project Lifecycle

Phase	GSC Contribution
Strategy	Hydrogen roadmaps and policy support
Feasibility	Technical and commercial studies
Engineering	Plant and infrastructure design
Procurement	Tender preparation and evaluation
Construction	Engineering supervision
Commissioning	Testing and performance validation
Operations	Asset optimisation and monitoring
Expansion	Scaling and continuous improvement

Why GSC?

Green hydrogen projects require the integration of multiple engineering disciplines.

Success depends on coordinating renewable energy, power systems, electrolysis, water resources, storage technologies, transportation infrastructure, industrial processes, environmental considerations, project governance, financing, and regulatory compliance.

GSC brings these disciplines together through a systems-engineering approach that supports technically sound decisions, effective project delivery, and long-term operational success.

Our integrated capability enables clients to develop hydrogen projects that are scalable, resilient, commercially attractive, and aligned with future energy markets.

Typical Clients

We support:

- Governments
- National Energy Authorities
- Hydrogen Developers
- Renewable Energy Developers
- Utilities
- Industrial Manufacturers
- Ports
- Airports
- Oil & Gas Companies

- Chemical Producers
- Steel Manufacturers
- International Financial Institutions
- Development Agencies
- EPC Contractors
- Private Investors

Client Benefits

Our hydrogen services help clients to:

- Accelerate decarbonisation.
- Develop bankable hydrogen projects.
- Optimise renewable energy utilisation.
- Reduce long-term emissions.
- Diversify energy supply.
- Strengthen energy security.
- Attract investment.
- Build future-ready infrastructure.
- Create new industrial opportunities.
- Support national energy transition goals.

Executive Perspective

Green hydrogen represents far more than a new fuel. It is a strategic enabler of industrial transformation, long-duration energy storage, clean mobility, and sustainable economic development. Its successful deployment requires integrated engineering, strategic planning, and disciplined project leadership.

Featured Focus Areas

Integrated Hydrogen Ecosystems

Designing hydrogen value chains that connect renewable generation, production, storage, transport, and end-use applications into one coordinated system.

Industrial Decarbonisation

Supporting hard-to-abate sectors with practical pathways to reduce emissions while maintaining competitiveness and operational reliability.

Export-Oriented Hydrogen Infrastructure

Advising on the planning and development of hydrogen export hubs, port infrastructure, logistics, and international supply chains.

Digital Hydrogen Operations

Applying AI, digital twins, advanced monitoring, and predictive analytics to improve plant efficiency, reliability, safety, and lifecycle performance.

PAGE 15 . INDUSTRIAL ENERGY EFFICIENCY & DECARBONISATION

Engineering Smarter, More Competitive and Sustainable Industries

Improving Performance While Reducing Energy Consumption and Carbon Emissions

Industrial facilities account for a significant share of global energy consumption and greenhouse gas emissions. Rising energy prices, increasingly stringent environmental regulations, ageing infrastructure, and growing sustainability expectations are driving industries to rethink how energy is generated, managed, and utilised.

Energy efficiency is no longer simply a cost-saving initiative—it has become a strategic business priority that enhances competitiveness, operational resilience, environmental performance, and long-term profitability.

At Great Standard Consulting Ltd (GSC), we help industrial organisations improve operational performance through engineering-led energy optimisation, process improvement, digital transformation, and decarbonisation strategies.

Our multidisciplinary expertise enables clients to reduce energy consumption, optimise production processes, modernise electrical systems, integrate renewable energy, improve asset performance, and achieve measurable sustainability objectives without compromising

operational reliability.

Our Industrial Engineering Expertise

Energy Efficiency Assessments

Comprehensive evaluations of industrial facilities to identify opportunities for reducing energy consumption and improving operational performance.

Our assessments include:

- Energy audits
- Process energy analysis
- Utility system assessments
- Electrical system reviews
- Thermal energy analysis
- Compressed air assessments
- Steam system optimisation
- HVAC optimisation

Electrical System Optimisation

Supporting reliable and efficient industrial power systems through:

- Power system studies
- Load analysis
- Demand management
- Power quality assessment
- Harmonic analysis
- Power factor correction
- Electrical distribution optimisation
- Motor system optimisation

Process Optimisation

Improving industrial productivity through engineering analysis and operational optimisation.

Typical activities include:

- Process mapping
- Production optimisation
- Equipment efficiency improvement
- Waste heat recovery
- Utility optimisation
- Operational benchmarking
- Process automation support

Industrial Decarbonisation

Developing practical pathways for reducing industrial emissions through integrated engineering solutions.

This includes:

- Energy transition strategies
- Renewable energy integration
- Electrification studies
- Hydrogen readiness assessments
- Carbon reduction roadmaps
- Fuel switching evaluations
- Circular economy opportunities

Digital Industry Solutions

The future of industrial performance depends on intelligent technologies.

GSC supports clients in implementing:

- Industrial IoT
- Artificial Intelligence
- Digital Twins
- Predictive Maintenance
- Advanced Analytics
- Smart Energy Management Systems
- Industrial Automation
- Real-Time Performance Dashboards

These technologies improve operational visibility, optimise maintenance, reduce downtime, and support continuous performance improvement.

Our Services

Strategic Planning

Industrial energy strategies

Net-zero roadmaps

Decarbonisation planning

Energy master plans

Engineering

Electrical engineering

Energy systems

Process optimisation

Utility engineering

Infrastructure upgrades

Advisory

Energy management

Technology selection

Investment planning

Technical due diligence

Project Leadership

Programme management

Implementation planning

Procurement support

Construction supervision

Performance verification

Operational Optimisation

Continuous improvement

Energy performance monitoring

KPI dashboards

Digital asset management

Lifecycle optimisation

Engineering Across the Industrial Lifecycle

Industrial Phase	GSC Contribution
Assessment	Energy audits and baseline analysis
Strategy	Efficiency and decarbonisation roadmaps
Engineering	Technical design and optimisation
Implementation	Project leadership and engineering support
Commissioning	Performance verification

Operations	Monitoring and continuous improvement
Modernisation	Technology upgrades and lifecycle extension

Key Focus Areas

Industrial Energy Efficiency

Reducing energy intensity while maintaining or improving productivity.

Process Improvement

Optimising production systems for higher efficiency, reliability, and product quality.

Electrical Infrastructure

Modernising industrial electrical systems to improve safety, reliability, and operational performance.

Decarbonisation

Supporting practical pathways towards lower emissions and sustainable industrial operations.

Renewable Integration

Combining industrial operations with renewable energy generation and battery energy storage.

Digital Manufacturing

Applying intelligent technologies to improve operational efficiency, predictive maintenance, and asset management.

Typical Deliverables

- Industrial Energy Audits
- Energy Management Strategies
- Decarbonisation Roadmaps
- Electrical System Studies
- Power Quality Assessments
- Process Optimisation Reports
- Renewable Integration Studies
- Carbon Reduction Plans
- Energy Performance Dashboards
- Investment Business Cases
- Energy Management Frameworks
- Asset Optimisation Strategies

Typical Clients

We support organisations operating in:

- Manufacturing
- Oil & Gas
- Petrochemicals
- Cement
- Steel
- Food & Beverage
- Pharmaceuticals
- Mining
- Water & Wastewater
- Data Centres
- Ports
- Airports
- Logistics
- Industrial Parks

Client Benefits

Our industrial solutions help organisations achieve:

- Lower operating costs.
- Reduced energy consumption.
- Improved equipment reliability.
- Increased production efficiency.
- Reduced carbon emissions.
- Better regulatory compliance.
- Enhanced energy security.
- Improved return on investment.
- Stronger operational resilience.
- Long-term sustainability.

Why GSC?

Industrial transformation requires a holistic approach that combines engineering expertise, operational understanding, digital innovation, and strategic planning.

Rather than focusing solely on equipment upgrades or energy audits, GSC develops integrated improvement programmes that align engineering solutions with production objectives, financial performance, sustainability commitments, and long-term business strategy.

Our approach ensures that energy efficiency becomes a driver of competitiveness rather than simply a compliance exercise.

Executive Perspective

The most competitive industries of the future will not necessarily consume the least energy—they will use energy more intelligently. Engineering excellence, digital innovation, and strategic optimisation enable organisations to produce more value with fewer resources while accelerating the transition towards sustainable industrial operations.

Featured Focus Areas

Industrial Energy Optimisation

Engineering integrated solutions that reduce energy intensity while improving productivity, reliability, and operational performance.

Smart Industrial Facilities

Supporting the transformation of conventional industrial plants into digitally connected, data-driven, and intelligent production environments.

Decarbonisation Pathways

Developing practical transition plans that combine energy efficiency, electrification, renewable energy, hydrogen, and advanced technologies to achieve measurable emissions reductions.

Lifecycle Performance Improvement

Optimising assets throughout their operational life using predictive maintenance, digital analytics, and continuous improvement methodologies to maximise reliability and return on investment.

PAGE 16. DIGITAL TRANSFORMATION & ARTIFICIAL INTELLIGENCE

Engineering the Intelligent Infrastructure of the Future

Transforming Data into Better Decisions

The engineering and infrastructure sectors are experiencing an unprecedented digital revolution. Rapid advances in Artificial Intelligence (AI), Industrial Internet of Things (IIoT), Digital Twins, advanced analytics, cloud computing, automation, and cybersecurity are transforming how assets are designed, operated, maintained, and optimised.

The future belongs to organisations that can harness data as a strategic asset.

Digital transformation is no longer simply about adopting new software or replacing legacy systems. It is about fundamentally changing how organisations make decisions, manage assets, improve operational performance, reduce risk, and create long-term value.

At Great Standard Consulting Ltd (GSC), we help organisations transform engineering knowledge into digital intelligence.

By integrating engineering expertise with modern digital technologies, we enable our clients to improve operational visibility, optimise asset performance, automate decision-making, strengthen resilience, and accelerate sustainable growth.

Our approach combines engineering, digital innovation, strategic advisory, and project leadership to ensure that digital transformation delivers measurable business outcomes rather than isolated technology implementations.

Our Digital Transformation Philosophy

Technology alone does not create transformation.

Successful digital transformation requires the integration of:

- Engineering expertise
- Business strategy
- Organisational capability
- Data governance
- Digital technologies
- Change management
- Leadership commitment

Only when these elements work together can organisations realise the full value of digital innovation.

Our Digital Capabilities

Artificial Intelligence (AI)

Applying intelligent algorithms to improve engineering decision-making and operational performance.

Applications include:

- Demand forecasting
- Renewable generation forecasting
- Predictive maintenance
- Equipment failure prediction
- Risk prediction
- Asset optimisation
- Intelligent decision support
- Operational optimisation

Digital Twins

Creating virtual representations of physical assets and infrastructure that enable:

- Real-time monitoring

- Operational simulation
- Performance optimisation
- Scenario analysis
- Lifecycle management
- Predictive maintenance
- Investment planning

Industrial Internet of Things (IIoT)

Connecting engineering assets through intelligent sensors and communication systems.

Capabilities include:

- Remote monitoring
- Smart sensors
- Asset connectivity
- Condition monitoring
- Operational visibility
- Data acquisition
- Intelligent alarms

Advanced Analytics

Transforming engineering data into actionable intelligence.

Services include:

- Performance analytics
- KPI development
- Operational dashboards
- Data visualisation
- Energy analytics
- Reliability analysis
- Business intelligence

Intelligent Automation

Supporting automation initiatives that improve efficiency, consistency, and operational performance.

Applications include:

- Process automation
- Workflow automation
- Intelligent reporting
- Automated asset monitoring
- Digital operations support

Cyber-Resilient Digital Infrastructure

Supporting secure digital transformation through engineering-led cybersecurity principles.

Our focus includes:

- Secure-by-design engineering
- Operational technology (OT) awareness
- Critical infrastructure resilience
- Cybersecurity readiness assessments
- Governance and risk management
- Digital resilience planning

Engineering Applications

Our digital expertise supports multiple sectors:

Future Power Grids

AI-enabled grid optimisation

Digital substations

Advanced distribution management

Renewable forecasting

Demand prediction

Grid resilience

Renewable Energy

Smart solar plants

Wind farm analytics

Battery optimisation

Remote monitoring

Performance forecasting

Asset optimisation

Industrial Facilities

Predictive maintenance

Digital manufacturing

Process optimisation

Industrial automation

Energy intelligence

Smart maintenance

Infrastructure

Smart cities

Transportation systems

Water infrastructure

Building management

Critical infrastructure

Asset management

Our Digital Transformation Framework

Every digital transformation programme follows a structured methodology.

Discover

Assess organisational maturity, operational challenges, existing systems, and strategic objectives.

↓

Define

Develop digital strategies, business cases, governance models, and implementation roadmaps.

↓

Design

Engineer integrated digital solutions aligned with operational requirements and future growth.

↓

Deploy

Implement technologies, systems, governance structures, and organisational change programmes.

↓

Optimise

Continuously improve performance using AI, analytics, automation, and operational intelligence.

↓

Transform

Create intelligent, resilient, data-driven organisations prepared for the future.

Digital Solutions Portfolio

GSC supports clients in implementing:

- Artificial Intelligence Solutions
- Digital Transformation Strategies
- Digital Twin Platforms
- Smart Grid Analytics
- Industrial IoT
- Smart Asset Management
- AI-based Predictive Maintenance
- Executive Dashboards
- Data Governance Frameworks
- Digital PMO Solutions
- Asset Performance Management
- Intelligent Energy Management Systems

Typical Deliverables

- Digital Transformation Roadmaps
- AI Opportunity Assessments
- Digital Maturity Assessments
- Data Governance Frameworks
- Digital Architecture Strategies
- Smart Grid Digitalisation Plans
- Digital Twin Concepts
- Executive Dashboards
- Predictive Maintenance Strategies
- Asset Intelligence Frameworks
- AI Implementation Roadmaps
- Technology Business Cases

Client Benefits

Our digital transformation services enable organisations to:

- Improve decision-making.
- Increase operational visibility.
- Reduce unplanned downtime.
- Enhance asset reliability.
- Optimise maintenance costs.
- Improve engineering productivity.
- Strengthen resilience.
- Accelerate innovation.
- Improve customer service.
- Create sustainable competitive advantage.

Why GSC?

Digital transformation is most successful when engineering expertise leads technology adoption.

Unlike technology vendors focused on software implementation, GSC begins with engineering and operational objectives, ensuring that digital solutions solve real business challenges and deliver measurable performance improvements.

Our independent, engineering-led approach enables clients to adopt technology with confidence, maximise return on investment, and build digital capabilities that continue to create value long after implementation.

Executive Perspective

Digital transformation is not about replacing engineers with technology. It is about empowering engineers with better information, stronger insights, and intelligent tools that enable faster decisions, safer operations, and more resilient infrastructure. The future belongs to organisations that combine engineering excellence with digital intelligence.

Featured Focus Areas

Artificial Intelligence for Engineering

Applying AI to improve forecasting, predictive maintenance, risk assessment, operational optimisation, and strategic decision-making across energy, infrastructure, and industrial sectors.

Digital Twin Engineering

Developing virtual models that improve planning, simulation, asset performance, maintenance, and lifecycle management.

Data-Driven Decision Support

Transforming operational data into strategic intelligence through advanced analytics, visualisation, and executive dashboards.

Intelligent Infrastructure

Supporting the development of connected, adaptive, and resilient infrastructure systems capable of responding to changing operational and environmental conditions.

PAGE 17. RESEARCH, INNOVATION & TECHNOLOGY ADVISORY

Transforming Emerging Technologies into Practical Engineering Solutions

Shaping the Future Through Innovation

The pace of technological change has never been greater. Artificial intelligence, digital engineering, advanced materials, automation, energy storage, hydrogen technologies, smart infrastructure, and data-driven decision-making are fundamentally changing the way organisations operate and invest.

For governments, utilities, infrastructure owners, and industrial organisations, innovation is no longer optional—it is essential for maintaining competitiveness, improving resilience, attracting investment, and achieving long-term sustainability.

However, innovation only creates value when it can be translated into practical, scalable, and commercially viable solutions.

At Great Standard Consulting Ltd (GSC), we bridge the gap between emerging technologies

and real-world implementation.

Our Research, Innovation & Technology Advisory services help organisations identify future opportunities, evaluate emerging technologies, reduce technical uncertainty, and develop innovation strategies that deliver measurable business and engineering value.

We combine scientific knowledge, engineering expertise, strategic thinking, and practical implementation experience to support organisations throughout their innovation journey—from concept development and research to pilot projects, technology adoption, and operational deployment.

Our Innovation Philosophy

Innovation should not be pursued simply because technology exists.

True innovation occurs when new ideas solve real engineering challenges, improve operational performance, strengthen resilience, reduce costs, and create sustainable value.

At GSC, innovation is guided by five principles:

- Engineering-led innovation
- Evidence-based decision-making
- Practical implementation
- Sustainable impact
- Continuous learning

Our Research & Innovation Services

Technology Assessment

Supporting organisations in evaluating emerging technologies before investment.

Our services include:

- Technology benchmarking
- Technology readiness assessment
- Market analysis
- Technical due diligence
- Opportunity identification
- Innovation roadmaps

Applied Engineering Research

Conducting engineering research that supports practical implementation.

Areas include:

- Smart Grids
- Renewable Energy

- Energy Storage
- Green Hydrogen
- Digital Engineering
- Artificial Intelligence
- Industrial Energy Efficiency
- Infrastructure Modernisation

Innovation Strategy

Helping organisations build structured innovation programmes.

Services include:

- Innovation frameworks
- Research strategies
- Innovation governance
- Technology portfolios
- R&D planning
- Open innovation models

Pilot Projects & Demonstrators

Supporting organisations in testing innovative technologies before large-scale deployment.

This includes:

- Pilot design
- Demonstration projects
- Technology validation
- Performance evaluation
- Lessons learned
- Scale-up planning

Technology Roadmapping

Developing long-term roadmaps for adopting emerging technologies while managing technical, commercial, and organisational risks.

Strategic Technology Domains

Our advisory services focus on technologies shaping the future of engineering and infrastructure.

Artificial Intelligence

Intelligent decision support

Predictive analytics

Engineering optimisation

Machine learning applications

Smart Infrastructure

Connected infrastructure

Digital asset management

Intelligent monitoring

Infrastructure resilience

Clean Energy Technologies

Renewable energy

Battery energy storage

Green hydrogen

Power-to-X

Carbon reduction

Digital Engineering

Digital twins

BIM integration

Advanced simulation

Cloud engineering platforms

Future Grid Technologies

Grid automation

Advanced protection

Energy management

Virtual power plants

Flexible networks

Sustainable Industry

Industrial decarbonisation

Circular economy

Resource efficiency

Advanced manufacturing

Research & Innovation Lifecycle

Every innovation programme follows a structured approach.

Explore

Identify strategic challenges, future trends, and emerging technologies.

↓

Evaluate

Assess technical feasibility, business value, maturity, and investment potential.

↓

Develop

Prepare research programmes, pilot projects, and implementation strategies.

↓

Demonstrate

Validate technologies through pilot deployments and engineering verification.

↓

Deploy

Support implementation, organisational adoption, and performance monitoring.

↓

Improve

Capture lessons learned and continuously enhance technology performance.

Typical Deliverables

- Technology Assessment Reports
- Innovation Strategies
- Research Roadmaps
- Technology Scouting Reports
- Pilot Project Plans
- Technology Readiness Assessments
- Innovation Governance Frameworks
- R&D Portfolio Reviews
- White Papers
- Policy Briefs
- Technical Publications
- Future Technology Outlook Reports

Collaboration & Partnerships

Innovation thrives through collaboration.

GSC works with:

- Universities
- Research Institutes
- Government Agencies
- Utilities
- Technology Providers
- Start-ups
- Industrial Organisations
- Development Banks
- International Organisations
- Innovation Hubs

By bringing together technical expertise, research capability, and practical engineering experience, we help clients accelerate innovation while reducing implementation risks.

Client Benefits

Our research and innovation services enable organisations to:

- Anticipate future technological developments.
- Make informed investment decisions.
- Reduce technology adoption risks.
- Accelerate innovation programmes.
- Strengthen organisational capability.
- Improve engineering competitiveness.
- Support evidence-based policymaking.
- Enhance long-term resilience.
- Foster a culture of continuous improvement.
- Position themselves as industry leaders.

Why GSC?

Innovation without engineering discipline often remains theoretical.

Engineering without innovation risks becoming obsolete.

GSC integrates both.

We combine engineering excellence, strategic advisory, research capability, and project leadership to help organisations move confidently from ideas to implementation. Our focus is not simply on identifying new technologies but on ensuring that they deliver measurable operational, commercial, and societal value.

Executive Perspective

The organisations that lead tomorrow will be those that invest today in knowledge, innovation, and technology. At Great Standard Consulting Ltd, we help clients transform emerging ideas into practical engineering solutions that strengthen resilience, accelerate sustainable development, and create lasting competitive advantage.

Featured Focus Areas

Future Energy Systems

Supporting the development of integrated energy ecosystems combining renewable energy, storage, hydrogen, digital technologies, and intelligent electricity networks.

Engineering Research

Delivering applied research that bridges the gap between academic knowledge and industrial implementation.

Innovation Ecosystems

Helping governments, utilities, and industries build collaborative innovation environments involving academia, technology providers, and private-sector partners.

Technology Commercialisation

Supporting organisations in evaluating, validating, and scaling innovative technologies into commercially successful solutions.

PAGE 18. TRAINING, EXECUTIVE EDUCATION & CAPACITY BUILDING

Developing People, Strengthening Organisations, and Building Sustainable Capability

Empowering People to Deliver Engineering Excellence

Technology, infrastructure, and engineering systems continue to evolve at an unprecedented pace. However, the long-term success of every organisation ultimately depends on the knowledge, leadership, and capabilities of its people.

Modern organisations require more than technical competence. They need leaders who can manage complexity, engineers who understand emerging technologies, project teams capable of delivering major programmes, and institutions that continuously learn and adapt.

At Great Standard Consulting Ltd (GSC), we believe that sustainable transformation begins with people.

Our Training, Executive Education, and Capacity Building services are designed to

strengthen individual competencies, enhance organisational capability, and support institutional excellence across the energy, infrastructure, industrial, and public sectors.

Rather than delivering conventional classroom training, we develop learning experiences that combine engineering knowledge, international best practices, practical application, case studies, and organisational development.

Our objective is not simply to transfer knowledge—it is to build lasting capability that enables organisations to deliver better projects, make better decisions, and achieve long-term success.

Our Learning Philosophy

At GSC, learning is viewed as a strategic investment rather than a training event.

We believe that effective professional development should:

- Address real organisational challenges.
- Support strategic objectives.
- Combine theory with practical application.
- Encourage critical thinking and innovation.
- Strengthen institutional capability.
- Deliver measurable business value.
- Promote continuous learning throughout the organisation.

Our Training & Development Services

Executive Education

Designed for senior leaders, executives, and decision-makers responsible for strategy, governance, and organisational transformation.

Topics include:

- Executive Leadership
- Strategic Decision-Making
- Corporate Governance
- Infrastructure Strategy
- Energy Transition
- Digital Transformation
- Risk Leadership
- Innovation Management

Engineering Professional Development

Specialised technical programmes covering:

- Power Systems Engineering
- Renewable Energy

- Smart Grids
- Battery Energy Storage
- Green Hydrogen
- Electrical Infrastructure
- Industrial Energy Efficiency
- Engineering Design
- Asset Management
- Digital Engineering

Project Management & PMO

Building organisational capability in:

- Project Management
- Programme Management
- Portfolio Management
- PMO Development
- Project Controls
- Risk Management
- Contract Management
- Stakeholder Management
- Agile & Hybrid Delivery Approaches

Digital Skills Development

Preparing organisations for digital transformation through programmes on:

- Artificial Intelligence
- Digital Twins
- Industrial IoT
- Data Analytics
- Cybersecurity Awareness
- Smart Infrastructure
- Digital Asset Management
- Business Intelligence

Institutional Capacity Building

Supporting long-term organisational development through:

- Competency Frameworks
- Training Needs Analysis
- Organisational Capability Assessments
- Knowledge Management
- Succession Planning
- Learning Strategies
- Change Management
- Leadership Development

Learning Delivery Models

We provide flexible delivery methods tailored to client needs.

In-Person Programmes

Instructor-led workshops delivered on-site or at client facilities.

Virtual Learning

Interactive online programmes delivered through modern digital learning platforms.

Blended Learning

Combining classroom instruction, virtual learning, self-study, coaching, and practical assignments.

Executive Coaching

One-to-one and small-group coaching for executives, project leaders, and technical specialists.

Custom Academy Programmes

Designing organisation-specific learning academies aligned with long-term strategic objectives.

Our Learning Methodology

Every programme follows a structured development process.

Assess

Understand organisational objectives, capability gaps, and learning needs.

↓

Design

Develop customised learning programmes aligned with business priorities.

↓

Deliver

Provide engaging, practical, and interactive learning experiences.

↓

Apply

Support participants in applying knowledge within their operational environment.

↓

Evaluate

Measure learning outcomes, behavioural change, and organisational impact.

↓

Sustain

Promote continuous professional development through ongoing learning and knowledge sharing.

Areas of Expertise

Our programmes cover a broad range of disciplines.

Engineering & Infrastructure

Power Systems

Renewable Energy

Smart Grids

Electrical Engineering

Industrial Systems

Infrastructure Management

Project Leadership

Project Management

PMO

Programme Management

Governance

Risk

Project Controls

Digital Transformation

Artificial Intelligence

Digital Twins

Analytics

Automation

Smart Infrastructure

Cybersecurity

Sustainability

Energy Transition

Net Zero

ESG

Circular Economy

Industrial Decarbonisation

Climate Resilience

Typical Deliverables

- Training Needs Assessments
- Competency Frameworks
- Training Strategies
- Executive Development Programmes
- Engineering Workshops
- Certification Programmes
- PMO Academies
- Leadership Development Plans
- Technical Manuals
- Learning Materials
- Assessment Tools
- Post-Training Evaluation Reports

Client Benefits

Our capacity-building programmes help organisations to:

- Strengthen technical capability.
- Develop future leaders.
- Improve project delivery performance.
- Enhance decision-making.
- Support digital transformation.
- Improve organisational resilience.
- Retain institutional knowledge.
- Build a culture of continuous improvement.
- Increase employee engagement.
- Achieve sustainable organisational growth.

Why GSC?

Training should never be an isolated event disconnected from organisational objectives.

At GSC, every learning programme is linked to measurable business outcomes. We integrate engineering expertise, project leadership, strategic advisory, and organisational development to ensure that knowledge translates into improved performance.

Our programmes are practical, interactive, internationally informed, and tailored to the operational realities of each client. We believe the greatest return on investment comes not from the number of training hours delivered, but from the capability and confidence participants gain to solve real-world challenges.

Executive Perspective

Sustainable organisations are built by capable people. Investing in knowledge, leadership, and professional development is one of the most valuable investments any organisation can make. At Great Standard Consulting Ltd, we help clients build the human capability that transforms strategy into lasting success.

Featured Programmes

Executive Leadership for Infrastructure Transformation

Supporting senior leaders in navigating complex engineering, infrastructure, and energy transition programmes.

Engineering Excellence Academy

A structured professional development pathway for engineers, technical specialists, and engineering managers.

Project Leadership & PMO Academy

Developing high-performing project organisations through internationally recognised project management practices, governance frameworks, and leadership skills.

Digital Engineering Academy

Preparing organisations for the future through practical education in AI, digital twins, analytics, automation, and intelligent infrastructure.

PAGE 19. INDUSTRIES WE SERVE

Delivering Engineering Excellence Across Critical Industries

Industry Expertise That Creates Lasting Value

Every industry faces unique technical, operational, commercial, and regulatory challenges. Successful engineering solutions require more than technical knowledge—they require a deep understanding of sector-specific environments, stakeholder expectations, operational constraints, and future market trends.

At Great Standard Consulting Ltd (GSC), we combine multidisciplinary engineering expertise with strategic advisory and project leadership to support organisations across the complete infrastructure and industrial value chain.

Our integrated approach enables us to deliver practical, innovative, and sustainable solutions tailored to the specific needs of each sector while applying international best practices and engineering excellence.

Whether supporting governments in national infrastructure development, utilities in grid modernisation, industrial organisations in energy optimisation, or investors in evaluating major capital projects, our objective remains the same:

To create long-term value through engineering excellence, strategic insight, and successful project delivery.

Energy & Utilities

Building the Energy Systems of Tomorrow

The global energy sector is undergoing one of the most significant transformations in history. Decarbonisation, renewable energy integration, electrification, digitalisation, and changing customer expectations require utilities to modernise their infrastructure while maintaining reliability, affordability, and resilience.

GSC supports electricity utilities, transmission operators, distribution companies, independent power producers, and energy developers in delivering modern, intelligent, and sustainable energy systems.

Our expertise includes:

- Power Generation
- Transmission Systems
- Distribution Networks
- Smart Grids
- Renewable Energy Integration
- Battery Energy Storage Systems
- Grid Digitalisation
- Asset Management
- Energy Planning
- Utility Transformation

Oil, Gas & Petrochemicals

Supporting Safe, Efficient and Sustainable Energy Operations

The oil and gas sector continues to play a critical role in global energy supply while adapting to lower-carbon operations, improved efficiency, and digital transformation.

GSC provides engineering consulting, energy optimisation, electrical systems expertise, infrastructure planning, project management, and decarbonisation strategies that enhance operational performance and prepare organisations for the evolving energy landscape.

Our services include:

- Electrical Infrastructure
- Power Supply Systems

- Industrial Energy Efficiency
- Digital Transformation
- Asset Optimisation
- Carbon Reduction Strategies
- Facility Modernisation
- Project Delivery Support

Renewable Energy

Accelerating the Global Energy Transition

Renewable energy is reshaping electricity systems worldwide.

We help developers, governments, investors, and utilities plan, design, and implement renewable energy projects that maximise performance, reliability, and long-term value.

Areas include:

- Solar PV
- Wind Energy
- Hybrid Systems
- Microgrids
- Energy Storage
- Hydrogen Integration
- Grid Connection Studies
- Feasibility Studies

Industrial & Manufacturing

Driving Productivity Through Engineering Excellence

Manufacturers are under increasing pressure to improve efficiency, reduce energy consumption, modernise ageing infrastructure, and remain globally competitive.

GSC supports industrial organisations by combining engineering optimisation, digital transformation, automation, and energy management to improve operational performance.

Typical sectors include:

- Manufacturing
- Cement
- Steel
- Food Processing
- Pharmaceuticals
- Chemicals
- Mining
- Heavy Industry

Water & Environmental Infrastructure

Engineering Sustainable Water Systems

Reliable water infrastructure is essential for economic development and public wellbeing.

GSC supports organisations responsible for water production, treatment, desalination, wastewater management, and environmental infrastructure through engineering, energy optimisation, and digital transformation.

Areas include:

- Water Treatment Plants
- Desalination Facilities
- Wastewater Systems
- Pumping Stations
- Smart Water Networks
- Energy Optimisation
- Asset Management

Government & Public Sector

Delivering National Infrastructure Programmes

Governments require trusted advisors capable of combining technical expertise with strategic planning, governance, policy support, and programme delivery.

GSC works with ministries, regulatory authorities, municipalities, and public agencies to strengthen institutional capability and deliver sustainable infrastructure programmes.

Services include:

- Infrastructure Planning
- Policy Advisory
- Institutional Strengthening
- Programme Management
- Capacity Building
- Technical Advisory
- Strategic Planning
- Digital Government Support

Transportation & Infrastructure

Building Connected and Resilient Infrastructure

Modern transport infrastructure depends on intelligent engineering, reliable electrical systems, digital technologies, and effective project management.

We support clients involved in:

- Airports
- Seaports
- Rail Infrastructure
- Highways
- Urban Infrastructure
- Logistics Hubs
- Smart Cities
- Intelligent Transport Systems

Commercial & Real Estate

Intelligent Buildings for Modern Business

Commercial developments increasingly require integrated energy solutions, smart building technologies, and sustainable infrastructure.

GSC provides consulting for:

- Commercial Buildings
- Business Parks
- Data Centres
- Mixed-Use Developments
- Corporate Campuses
- Hospitality Facilities
- Healthcare Infrastructure
- Educational Campuses

Financial Institutions & Investors

Supporting Better Investment Decisions

Infrastructure investments require independent technical expertise throughout the investment lifecycle.

GSC supports investors, development banks, infrastructure funds, and financial institutions through:

- Technical Due Diligence
- Feasibility Studies
- Investment Appraisal
- Risk Assessment
- Technical Reviews
- Project Monitoring
- Performance Evaluation
- Independent Engineering Services

International Development Organisations

Engineering Solutions for Sustainable Development

Development agencies play an essential role in improving infrastructure, energy access, resilience, and institutional capability across emerging economies.

GSC partners with:

- Development Banks
- International Financial Institutions
- United Nations Agencies
- Bilateral Development Organisations
- NGOs
- National Development Programmes

Supporting initiatives in:

- Energy Access
- Climate Resilience
- Infrastructure Development
- Institutional Capacity Building
- Renewable Energy
- Sustainable Development Goals (SDGs)

How We Create Value Across Industries

Regardless of sector, our approach is built around six core pillars:

Engineering Excellence

Delivering technically robust, practical, and sustainable engineering solutions.

Strategic Advisory

Helping organisations make informed long-term investment and policy decisions.

Project Leadership

Ensuring successful delivery through effective governance, project management, and stakeholder coordination.

Digital Transformation

Leveraging AI, digital twins, IoT, and advanced analytics to improve performance and resilience.

Sustainability

Supporting clients in achieving environmental, social, and economic objectives.

Capacity Building

Strengthening organisational capability through training, executive education, and knowledge transfer.

Why Clients Choose GSC

Our clients value our ability to integrate technical expertise with strategic thinking, enabling us to deliver solutions that address immediate operational challenges while supporting long-term organisational objectives.

By combining engineering, advisory, project leadership, digital innovation, and institutional development, GSC provides a single trusted partner capable of supporting complex projects from concept through operation.

Executive Perspective

Every industry is changing. Technologies evolve, regulations tighten, markets shift, and stakeholder expectations increase. Organisations that succeed are those that combine technical excellence with strategic vision and the agility to adapt. At Great Standard Consulting Ltd, we help clients navigate this complexity with confidence, delivering engineering solutions that create lasting value across industries and throughout the project lifecycle.

PAGE 20. SIGNATURE PROJECTS & SELECTED CASE STUDIES

Engineering Solutions That Deliver Measurable Results

Demonstrating Capability Through Successful Project Delivery

At Great Standard Consulting Ltd (GSC), we believe that experience is best demonstrated through successful outcomes rather than claims alone.

Our projects reflect our commitment to engineering excellence, strategic thinking, innovation, and sustainable development across the energy, infrastructure, industrial, and digital sectors.

From renewable energy and smart grids to industrial optimisation, infrastructure modernisation, and digital transformation, our multidisciplinary expertise enables us to support clients throughout the entire project lifecycle—from feasibility and strategic planning through engineering design, implementation support, commissioning, and operational optimisation.

The following projects highlight representative examples of our technical capabilities and integrated consulting approach.

Featured Project 01

1.07 MW Industrial Solar PV System

Tangier, Morocco

Client Sector

Industrial Manufacturing

Project Overview

GSC conducted a comprehensive feasibility study and engineering performance assessment for a **1.07 MW rooftop solar photovoltaic system** designed to reduce grid dependency, lower operating costs, and support the client's sustainability objectives.

The project included advanced energy modelling, technical design optimisation, financial evaluation, and long-term performance forecasting using professional engineering simulation tools.

Scope of Services

- Technical feasibility study
- Energy yield assessment
- 3D PV system simulation
- Financial analysis
- Lifecycle performance modelling
- Grid integration assessment
- Investment evaluation
- Technical reporting

Key Results

- Optimised system configuration
- Improved energy self-consumption
- Reduced operating costs
- Lower carbon emissions
- Strong investment case
- Long-term performance forecasting

Value Delivered

An engineering-led investment decision supported by technical evidence, financial analysis, and lifecycle optimisation.

Featured Project 02

Hybrid Microgrid for Remote Oil & Gas Facilities

Libya

Client Sector

Oil & Gas

Project Overview

Development of an integrated hybrid microgrid concept combining conventional generation with renewable energy and intelligent power management for remote oil and gas production facilities.

The project focused on improving operational reliability, reducing diesel fuel consumption, enhancing energy efficiency, and increasing resilience in isolated operating environments.

Scope of Services

- Hybrid power system studies
- Load assessment
- Power system optimisation
- Renewable integration
- Battery storage assessment
- Operational modelling
- Reliability analysis
- Strategic advisory

Key Results

- Improved power reliability
- Reduced fuel dependency
- Lower operational costs
- Increased energy resilience
- Reduced emissions
- Enhanced operational flexibility

Value Delivered

A resilient and scalable energy solution supporting sustainable industrial operations in remote locations.

Featured Project 03

National Desalination Solar Integration Study

Libya

Client Sector

Water Infrastructure

Project Overview

Technical feasibility assessment for integrating renewable energy into large-scale desalination infrastructure to improve sustainability and reduce lifecycle operating costs.

The study evaluated energy demand, photovoltaic integration opportunities, battery storage options, and long-term implementation strategies.

Scope of Services

- Energy demand analysis
- Solar resource assessment
- Technical feasibility
- Economic evaluation
- Battery storage assessment
- Decarbonisation strategy
- Implementation roadmap

Key Results

- Significant renewable energy potential identified
- Improved operational sustainability
- Reduced electricity costs
- Lower environmental impact
- Strategic implementation roadmap

Value Delivered

Supporting sustainable water infrastructure through integrated renewable energy solutions.

Featured Project 04

Industrial Energy Optimisation Programme

Manufacturing Sector

Project Overview

Comprehensive engineering optimisation of industrial electrical systems and production processes aimed at reducing energy consumption while improving operational efficiency and asset reliability.

The programme included electrical engineering studies, power quality analysis, equipment optimisation, and energy management improvements.

Scope of Services

- Energy audits
- Electrical engineering
- Load optimisation
- Power quality studies
- Motor system optimisation
- Process improvement
- Energy management

Key Results

- Reduced energy intensity
- Improved equipment performance
- Enhanced electrical reliability
- Lower maintenance costs
- Better operational efficiency

Value Delivered

Integrated engineering solutions improving productivity and long-term competitiveness.

Featured Project 05

Digital Intelligence for Future Power Grids

Strategic Research & Advisory

Project Overview

Development of an integrated digital transformation framework supporting future electricity networks through Artificial Intelligence, Digital Twins, Industrial IoT, advanced analytics, and intelligent asset management.

The framework demonstrated how utilities can improve operational resilience, forecasting accuracy, predictive maintenance, and strategic decision-making.

Scope of Services

- Digital strategy
- AI applications
- Smart grid architecture
- Predictive maintenance
- Digital Twin concepts
- Executive advisory
- Technology roadmap

Key Results

- Improved operational visibility
- Enhanced grid resilience
- Better forecasting accuracy
- Intelligent asset management
- Reduced operational risk

Value Delivered

Preparing electricity utilities for the next generation of intelligent energy systems.

Additional Representative Experience

Our multidisciplinary expertise extends across numerous engineering and infrastructure disciplines, including:

Energy

- Utility-scale solar PV
- Smart grids
- Battery Energy Storage Systems (BESS)
- Green hydrogen
- Distributed energy resources
- Power generation
- Transmission systems
- Distribution networks

Industrial

- Electrical engineering
- Process optimisation
- Energy efficiency
- Asset management
- Industrial automation
- Digital manufacturing

Infrastructure

- Water infrastructure
- Smart cities
- Critical infrastructure
- Transportation systems
- Airports
- Ports
- Commercial developments

Strategic Advisory

- Feasibility studies
- Technical due diligence
- Investment planning
- Infrastructure strategy
- Policy advisory
- Programme management
- PMO development
- Institutional strengthening

Our Project Delivery Approach

Every project is delivered through an integrated methodology.

Understand

Client objectives, operational environment, and strategic priorities.

↓

Analyse

Engineering assessments, technical investigations, and risk evaluation.

↓

Design

Development of technically robust and commercially viable solutions.

↓

Deliver

Project leadership, stakeholder coordination, and implementation support.

↓

Optimise

Performance monitoring, continuous improvement, and lifecycle optimisation.

Why Our Projects Matter

Our projects demonstrate more than technical capability.

They illustrate our ability to:

- Solve complex engineering challenges.

- Integrate multiple disciplines.
- Deliver practical and sustainable solutions.
- Improve operational performance.
- Reduce project risk.
- Support informed investment decisions.
- Create measurable long-term value.

Executive Perspective

Every successful project represents more than technical achievement—it reflects collaboration, innovation, disciplined project leadership, and a commitment to creating sustainable value. At Great Standard Consulting Ltd, we measure success not by the completion of projects, but by the lasting impact those projects create for our clients and the communities they serve.

PAGE 21 . OUR PROJECT DELIVERY METHODOLOGY & CLIENT ENGAGEMENT MODEL

A Structured Approach to Delivering Successful Outcomes

Turning Strategy into Measurable Results

Complex engineering and infrastructure projects require more than technical expertise. They demand disciplined planning, effective governance, proactive risk management, strong stakeholder engagement, and continuous performance monitoring.

At Great Standard Consulting Ltd (GSC), our project delivery methodology combines international best practices with practical engineering experience to ensure that every assignment is delivered safely, efficiently, transparently, and in alignment with our clients' strategic objectives.

Our approach is flexible enough to support advisory assignments, engineering studies, digital transformation programmes, major infrastructure projects, and organisational capability development while maintaining consistent standards of quality and accountability.

Our Delivery Principles

Every engagement is guided by six core principles:

Client-Centred Partnership

We work as an extension of our client's organisation, ensuring collaboration, transparency, and shared ownership of project outcomes.

Engineering Excellence

Technical decisions are based on sound engineering principles, recognised standards, and evidence-based analysis.

Strategic Alignment

Every project is aligned with the client's business objectives, investment priorities, and long-term vision.

Integrated Project Management

Engineering, commercial, operational, and stakeholder considerations are managed together rather than in isolation.

Risk-Based Decision Making

Potential risks are identified early and managed proactively throughout the project lifecycle.

Continuous Improvement

Lessons learned, performance monitoring, and knowledge sharing are embedded into every engagement.

Our Project Delivery Framework

Every assignment follows a structured lifecycle.

Phase 1 – Discover

Understanding the client's business, operational environment, objectives, challenges, and stakeholders.

Typical activities:

- Initial consultations
- Site visits
- Stakeholder interviews
- Data collection
- Baseline assessments
- Opportunity identification

Deliverables

- Project Charter
- Stakeholder Register
- Initial Risk Assessment
- Baseline Report

Phase 2 – Define

Developing the strategic direction and detailed project requirements.

Activities include:

- Scope definition
- Requirements analysis
- Feasibility assessment
- Business case development
- Project planning
- Governance structure

Deliverables

- Scope Statement
- Feasibility Study
- Project Management Plan
- Governance Framework

Phase 3 – Design

Developing engineering solutions and implementation strategies.

Activities:

- Engineering studies
- System design
- Option evaluation
- Cost estimation
- Risk analysis
- Technology assessment

Deliverables

- Engineering Design Reports

- Technical Specifications
- Cost Estimates
- Risk Register
- Implementation Roadmap

Phase 4 – Deliver

Supporting implementation through disciplined project management and technical oversight.

Activities:

- Project coordination
- Technical supervision
- Procurement support
- Quality management
- Progress monitoring
- Stakeholder communication

Deliverables

- Progress Reports
- Quality Assurance Records
- Risk Updates
- Performance Dashboards
- Executive Reports

Phase 5 – Validate

Ensuring project objectives have been achieved.

Activities:

- Performance verification
- Acceptance testing
- Operational readiness
- Lessons learned
- Final evaluation

Deliverables

- Commissioning Reports
- Performance Verification
- Acceptance Documentation
- Lessons Learned Report

Phase 6 – Sustain

Supporting long-term operational success.

Activities:

- Training
- Knowledge transfer
- Operational optimisation
- Continuous improvement
- Asset performance reviews

Deliverables

- Operational Guidelines
- Training Materials
- Maintenance Recommendations
- Continuous Improvement Plan

Governance Framework

Strong governance is fundamental to successful delivery.

Our governance model includes:

- Executive Steering Committee support
- Clear roles and responsibilities
- Stage-gate decision reviews
- Regular project reporting
- Performance measurement
- Issue escalation procedures
- Independent quality reviews
- Change control processes

Project Controls

GSC applies structured project controls throughout the project lifecycle.

These include:

Schedule Management

Monitoring milestones, critical paths, and project progress.

Cost Management

Budget planning, cost forecasting, and financial performance tracking.

Risk Management

Risk identification, analysis, mitigation, and monitoring.

Quality Management

Technical reviews, compliance verification, and quality assurance.

Change Management

Formal assessment and approval of project changes.

Performance Reporting

Executive dashboards, KPIs, and progress reporting.

Stakeholder Engagement

Successful projects depend on effective communication and stakeholder alignment.

Our stakeholder engagement approach includes:

- Stakeholder mapping
- Communication planning
- Consultation workshops
- Executive briefings
- Technical reviews
- Progress meetings
- Decision support
- Knowledge sharing

Quality Assurance

Quality is integrated into every stage of project delivery.

Our quality practices include:

- Peer reviews
- Technical verification
- Design reviews
- Compliance checks
- Independent assessments
- Document control
- Lessons learned integration
- Continuous improvement

Digital Project Delivery

Modern engineering projects require digital collaboration and data-driven decision-making.

GSC incorporates:

- Digital collaboration platforms
- Project dashboards

- Data analytics
- Digital document management
- BIM and Digital Twin integration (where applicable)
- AI-supported reporting
- Performance visualisation
- Cloud-based information sharing

Our Client Engagement Model

We adapt our engagement model to the needs of each client.

Strategic Advisor

Supporting executive decision-making and long-term planning.

Owner's Engineer

Providing independent technical oversight throughout project delivery.

Engineering Consultant

Delivering engineering studies, designs, and technical advisory services.

Programme Management Partner

Managing complex programmes and portfolios.

PMO Partner

Establishing and strengthening project governance and organisational capability.

Capacity Building Partner

Developing the people, processes, and systems needed to sustain long-term success.

What Clients Can Expect

Working with GSC means:

- Transparent communication.
- Independent professional advice.
- High engineering standards.
- Practical and implementable solutions.
- Collaborative working relationships.
- Proactive risk management.
- Timely delivery.
- Knowledge transfer throughout the engagement.

Executive Perspective

Successful projects are built on more than technical expertise—they require disciplined governance, collaborative leadership, and a relentless focus on delivering value. At Great Standard Consulting Ltd, our project delivery methodology ensures that every engagement is managed with professionalism, accountability, and a commitment to achieving sustainable outcomes for our clients.

PAGE 22. GLOBAL PRESENCE, PARTNERSHIPS & COLLABORATION

Connecting Global Expertise with Local Impact

Delivering International Engineering Solutions Through Strategic Collaboration

Today's engineering and infrastructure challenges extend beyond national boundaries. Energy transition, climate resilience, digital transformation, infrastructure modernisation, and sustainable development require collaboration between governments, utilities, engineering firms, research institutions, technology providers, investors, and international development organisations.

At Great Standard Consulting Ltd (GSC), we recognise that the most effective solutions are

developed through partnership.

Our collaborative approach enables us to combine multidisciplinary expertise, international best practices, regional knowledge, and innovative technologies to deliver sustainable solutions that respond to the unique needs of each client and each market.

While our headquarters are in the United Kingdom, our outlook is international. We support organisations across Europe, the Middle East, Africa, and other global markets through strategic advisory, engineering consulting, project leadership, digital transformation, and capacity-building services.

Our International Perspective

Engineering challenges may differ across regions, but the principles of technical excellence, sound governance, sustainability, and innovation remain universal.

GSC applies internationally recognised engineering practices while adapting solutions to local regulatory frameworks, environmental conditions, cultural contexts, and stakeholder expectations.

This balanced approach enables us to deliver practical, resilient, and scalable solutions across diverse geographical and operational environments.

Regions We Support

United Kingdom

Supporting public and private sector organisations in infrastructure development, engineering consulting, energy transition, project management, and digital transformation.

Europe

Providing engineering advisory services, renewable energy expertise, industrial optimisation, smart infrastructure consulting, and technical support for international programmes.

Middle East

Supporting national infrastructure development, utilities, industrial projects, energy diversification, and institutional capacity building.

Africa

Partnering with governments, utilities, development agencies, and private-sector organisations to strengthen energy systems, infrastructure, industrial capability, and sustainable development initiatives.

International Markets

Providing remote advisory services, technical studies, digital consulting, project reviews,

executive education, and specialist engineering support to organisations worldwide.

Our Collaborative Business Model

GSC believes that collaboration creates stronger outcomes.

Depending on project requirements, we work alongside:

Governments

Supporting national development strategies, infrastructure programmes, policy implementation, and institutional strengthening.

Utilities

Collaborating on grid modernisation, renewable integration, asset management, digital transformation, and operational excellence.

Engineering Firms

Providing specialist expertise, independent reviews, engineering support, and multidisciplinary consulting services.

EPC Contractors

Supporting project planning, engineering assurance, technical due diligence, project controls, and commissioning activities.

Technology Providers

Helping clients evaluate, integrate, and implement innovative technologies that improve operational performance and long-term value.

Research Institutions & Universities

Developing applied research, innovation programmes, technical studies, and knowledge-sharing initiatives.

Financial Institutions & Investors

Providing independent engineering advice, technical due diligence, investment support, and project evaluation services.

International Development Organisations

Supporting programmes focused on sustainable infrastructure, climate resilience, energy access, institutional development, and economic growth.

Partnership Principles

Every partnership is built on shared values.

Integrity

Transparent, ethical, and professional relationships.

Mutual Respect

Recognising the expertise and contribution of every partner.

Knowledge Sharing

Creating value through collaboration and continuous learning.

Innovation

Encouraging creative thinking and practical problem-solving.

Sustainability

Delivering solutions that create long-term environmental, economic, and social benefits.

Excellence

Maintaining the highest standards of engineering, governance, and project delivery.

Working Together

Our collaboration model can be tailored to different project requirements.

Independent Consultant

Providing objective technical advice and strategic recommendations.

Consortium Partner

Contributing specialist expertise within multidisciplinary project teams.

Owner's Engineer

Representing client interests through independent engineering oversight.

Technical Advisor

Supporting planning, procurement, implementation, and operational improvement.

Project Management Partner

Leading or supporting complex programmes and major infrastructure initiatives.

Capacity Building Partner

Strengthening organisational capability through education, training, coaching, and institutional development.

International Standards & Best Practices

GSC's work is informed by internationally recognised engineering and project management practices, including:

- ISO Management System principles
- Project Management Institute (PMI) good practices
- ISO 21500 Project Management guidance
- IEC electrical engineering standards
- IEEE technical standards
- International sustainability frameworks
- Asset management best practices
- Risk management methodologies
- Digital engineering principles

Where appropriate, we also align our work with client-specific standards, regulatory requirements, and sector-specific guidelines.

Knowledge Exchange

One of GSC's distinguishing strengths is its commitment to knowledge exchange.

We actively promote:

- Technical workshops
- Executive forums
- Joint research
- Professional mentoring
- International conferences
- Cross-sector collaboration
- Lessons learned programmes
- Communities of practice

By connecting people, organisations, and ideas, we help clients accelerate innovation and build long-term capability.

Why Clients Choose GSC as a Partner

Clients value GSC because we combine:

- International perspective with local understanding.
- Engineering excellence with strategic thinking.
- Technical depth with commercial awareness.
- Independent advice with collaborative delivery.
- Innovation with practical implementation.
- Knowledge transfer with long-term partnership.

Rather than acting solely as an external consultant, we work closely with our clients to become a trusted advisor and an extension of their own teams.

Executive Perspective

The most successful engineering solutions are rarely created in isolation. They emerge through collaboration, shared expertise, and trusted partnerships that unite diverse perspectives around a common purpose. At Great Standard Consulting Ltd, we believe that lasting success is built on strong relationships, international cooperation, and a shared commitment to engineering excellence and sustainable development.

PAGE 23. QUALITY, HEALTH, SAFETY, SUSTAINABILITY & ESG COMMITMENT

Delivering Engineering Excellence Responsibly and Sustainably

Building Trust Through Quality, Integrity and Responsible Engineering

Engineering projects have a lasting impact on people, organisations, communities, economies, and the environment. Every decision influences safety, operational performance, environmental sustainability, financial outcomes, and long-term resilience.

At Great Standard Consulting Ltd (GSC), quality and sustainability are not separate functions—they are embedded in the way we think, plan, design, advise, and deliver.

Our commitment extends beyond technical excellence to encompass responsible governance, ethical business practices, environmental stewardship, occupational health and safety, and the creation of long-term value for clients and society.

Through disciplined management systems, evidence-based decision-making, and a culture of

continuous improvement, we help clients achieve successful project outcomes while supporting sustainable development and responsible business practices.

Our Commitment

We are committed to delivering services that:

- Meet or exceed client expectations.
- Protect people and communities.
- Promote safe working practices.
- Support environmental sustainability.
- Encourage ethical and transparent business conduct.
- Strengthen organisational resilience.
- Deliver long-term value.
- Contribute to sustainable economic development.

Quality Excellence

Delivering Consistent Professional Standards

Quality is fundamental to every service we provide.

Our approach is based on:

- Engineering accuracy.
- Independent technical review.
- Evidence-based analysis.
- Structured project governance.
- Continuous improvement.
- Knowledge management.
- Client feedback.
- Professional accountability.

Every engagement is planned, reviewed, and delivered using structured methodologies designed to ensure technical consistency and measurable outcomes.

Health & Safety

Protecting People First

The safety of people remains a fundamental priority throughout every engagement.

Although GSC primarily provides consulting and advisory services, we integrate health and safety considerations into engineering studies, project planning, technical reviews, construction support, and operational advisory services.

Our philosophy is simple:

Every engineering decision should contribute to safer infrastructure, safer operations,

and safer workplaces.

Our services incorporate:

- Safety-by-design principles
- Risk identification
- Hazard assessments
- Construction safety considerations
- Operational safety reviews
- Emergency preparedness
- Human factors awareness
- Safety leadership

Environmental Responsibility

Engineering Sustainable Infrastructure

Environmental sustainability has become a strategic priority for governments, industries, and infrastructure owners.

GSC supports clients by integrating environmental considerations into planning, engineering, and investment decisions.

Our focus includes:

- Energy efficiency
- Renewable energy
- Carbon reduction
- Resource optimisation
- Climate resilience
- Circular economy principles
- Sustainable infrastructure
- Environmental risk management

Our objective is to help clients reduce environmental impact while improving operational and financial performance.

ESG Commitment

Supporting Responsible Growth

Environmental, Social, and Governance (ESG) principles increasingly influence investment decisions, corporate strategy, regulatory compliance, and organisational reputation.

GSC helps clients integrate ESG thinking into engineering and infrastructure programmes.

Environmental

- Decarbonisation

- Clean energy
- Resource efficiency
- Climate resilience
- Environmental stewardship

Social

- Capacity building
- Workforce development
- Community engagement
- Knowledge transfer
- Inclusive growth

Governance

- Transparency
- Accountability
- Ethical decision-making
- Risk management
- Responsible leadership

Ethical Business Practices

Professional integrity underpins every client relationship.

Our business principles include:

- Independence
- Objectivity
- Confidentiality
- Professional competence
- Transparency
- Accountability
- Compliance with applicable laws
- Respect for client interests

We are committed to building long-term relationships founded on trust and mutual respect.

Risk & Resilience

Modern infrastructure requires organisations capable of anticipating uncertainty.

GSC supports clients in strengthening resilience through:

- Enterprise risk management
- Engineering risk assessments
- Climate adaptation planning
- Infrastructure resilience
- Business continuity planning

- Operational resilience
- Critical asset protection
- Crisis preparedness

Continuous Improvement

Continuous improvement is embedded throughout our organisation.

We promote:

- Lessons learned reviews
- Knowledge sharing
- Technical innovation
- Professional development
- Process optimisation
- Client feedback
- Performance measurement
- Organisational learning

By continuously evaluating our performance, we ensure that every project benefits from previous experience and emerging best practices.

Sustainability in Practice

Across every engagement, we seek opportunities to:

- Improve energy performance.
- Reduce lifecycle costs.
- Increase asset reliability.
- Enhance operational efficiency.
- Reduce greenhouse gas emissions.
- Improve resource utilisation.
- Strengthen long-term resilience.
- Support sustainable development goals.

Sustainability is considered throughout the entire project lifecycle—from strategy and planning to engineering, implementation, operation, and continuous improvement.

Our Management Approach

Our work is guided by internationally recognised management principles relating to:

- Quality Management
- Project Management
- Risk Management
- Asset Management
- Environmental Management
- Health & Safety Management
- Information Security Awareness

- Continuous Improvement

Where appropriate, our services are aligned with client requirements, contractual obligations, and recognised international engineering standards.

Why It Matters

Clients increasingly expect consulting partners who understand not only engineering, but also governance, sustainability, risk, and responsible business.

By integrating these principles into every engagement, GSC helps clients:

- Improve project quality.
- Strengthen governance.
- Reduce operational risk.
- Enhance regulatory compliance.
- Improve ESG performance.
- Increase stakeholder confidence.
- Support long-term organisational success.

Executive Perspective

Engineering creates lasting impacts on people, communities, and the environment. Excellence is therefore measured not only by technical performance, but also by the responsibility with which projects are conceived, delivered, and sustained. At Great Standard Consulting Ltd, quality, safety, integrity, and sustainability are inseparable from engineering excellence.

Our Commitments at a Glance

Commitment Area	Our Focus
Quality	Technical excellence, peer review, continuous improvement
Health & Safety	Safety-by-design, risk prevention, operational safety
Environment	Energy efficiency, decarbonisation, resource optimisation
ESG	Responsible growth, governance, social value
Ethics	Integrity, transparency, accountability
Risk	Resilience, preparedness, informed decision-making
Sustainability	Long-term value across the project lifecycle

PAGE 24. WHY CLIENTS CHOOSE GSC

The Great Standard Consulting Advantage

More Than a Consultancy—A Long-Term Strategic Partner

Selecting the right consulting partner is one of the most important decisions an organisation can make. Engineering projects, infrastructure investments, digital transformation programmes, and organisational change initiatives require more than technical expertise. They demand strategic insight, disciplined project leadership, trusted advice, and an unwavering commitment to delivering measurable value.

At Great Standard Consulting Ltd (GSC), we work alongside our clients as trusted advisors, engineering specialists, and long-term partners.

Our success is measured not by the number of reports we produce, but by the value we create, the relationships we build, and the sustainable outcomes we help our clients achieve.

The GSC Difference

Engineering-Led Consulting

Engineering is at the heart of everything we do.

Our recommendations are built upon sound technical analysis, practical engineering knowledge, recognised international standards, and decades of multidisciplinary experience.

This engineering-first philosophy enables us to develop solutions that are technically robust, commercially viable, and operationally sustainable.

Strategic Thinking Beyond Engineering

We understand that engineering decisions are business decisions.

Every recommendation is developed with consideration for:

- Organisational strategy
- Financial performance
- Operational resilience
- Regulatory compliance
- Investment priorities
- Long-term sustainability

This integrated perspective enables clients to make informed decisions with confidence.

End-to-End Project Lifecycle Support

Unlike firms that specialise in only one phase of a project, GSC provides support across the complete lifecycle.

Our expertise extends from:

- Vision
- Strategy
- Feasibility
- Engineering
- Procurement
- Project Management
- Commissioning
- Operational Optimisation
- Continuous Improvement

This continuity reduces project risk and ensures alignment from concept to long-term operation.

Independent and Objective Advice

As an independent consultancy, GSC provides impartial recommendations focused solely on achieving the best outcomes for our clients.

We do not promote proprietary technologies or supplier-specific solutions.

Instead, we evaluate alternatives objectively and recommend the most appropriate technical, operational, and commercial approach.

Multidisciplinary Expertise

Complex projects rarely fit within a single discipline.

GSC integrates expertise across:

- Energy
- Electrical Engineering
- Infrastructure
- Renewable Energy
- Smart Grids
- Battery Energy Storage
- Green Hydrogen
- Digital Transformation
- Artificial Intelligence
- Industrial Engineering
- Project Management
- Organisational Development

This multidisciplinary capability enables us to solve complex challenges through integrated solutions.

International Perspective

Our work combines international best practices with local understanding.

We support organisations operating across different regulatory environments, markets, cultures, and operational contexts while adapting solutions to local priorities and stakeholder needs.

Innovation with Practical Value

Innovation is only meaningful when it delivers measurable benefits.

Our approach combines emerging technologies with practical implementation to improve:

- Operational performance
- Asset reliability
- Engineering productivity
- Decision-making
- Sustainability

- Organisational capability

Knowledge Transfer

Every project is an opportunity to strengthen our clients' internal capability.

We place strong emphasis on:

- Training
- Coaching
- Knowledge sharing
- Executive education
- Mentoring
- Institutional strengthening

Our objective is to leave every organisation stronger than when we first engaged.

Our Value Proposition

GSC creates value by integrating four complementary capabilities:

Engineering Excellence

Delivering technically sound and sustainable engineering solutions.

Strategic Advisory

Helping organisations make better long-term decisions.

Project Leadership

Providing structured governance and disciplined delivery.

Capability Development

Strengthening people, organisations, and institutions for long-term success.

What Clients Gain

Working with GSC provides organisations with:

Better Decisions

Independent technical and strategic advice supported by evidence-based analysis.

Reduced Risk

Structured governance, engineering assurance, and proactive risk management.

Higher Performance

Optimised engineering systems improved operational efficiency, and measurable business outcomes.

Sustainable Growth

Solutions designed to support long-term organisational success rather than short-term improvements.

Stronger Capability

Knowledge transfer, executive education, and organisational development integrated into every engagement.

Trusted Partnership

Long-term collaboration built upon professionalism, transparency, integrity, and shared success.

Our Commitment to Every Client

Regardless of project size or complexity, every client can expect:

- Professional integrity.
- Independent advice.
- Engineering excellence.
- Open communication.
- Reliable delivery.
- Respect for confidentiality.
- High-quality outputs.
- Long-term commitment.
- Continuous improvement.
- Measurable value creation.

Why Organisations Continue Working With GSC

Our clients value relationships that extend beyond individual projects.

They continue working with GSC because we consistently demonstrate:

- Technical credibility.
- Strategic thinking.
- Professional integrity.
- Collaborative leadership.
- Practical innovation.
- Responsive support.
- Reliable project delivery.
- Long-term partnership.

These qualities enable us to become a trusted advisor supporting our clients as they navigate future challenges and opportunities.

Executive Perspective

The greatest value a consulting partner can provide is confidence—the confidence that decisions are well informed, projects are well managed, risks are understood, and outcomes will create lasting value. At Great Standard Consulting Ltd, we earn that confidence through engineering excellence, strategic insight, disciplined project leadership, and an unwavering commitment to our clients' success.

The GSC Advantage at a Glance

Our Strength	Client Benefit
Engineering Excellence	Technically robust and reliable solutions
Strategic Advisory	Better long-term decisions
Independent Consulting	Objective recommendations
Multidisciplinary Expertise	Integrated solutions for complex challenges
Project Leadership	Successful delivery and governance
Digital Innovation	Smarter, data-driven operations
Knowledge Transfer	Stronger internal capability
Global Perspective	International best practices with local relevance
Long-Term Partnership	Sustainable business relationships

Our Promise

At Great Standard Consulting Ltd, we are committed to delivering services that:

- Create measurable value.
- Improve organisational performance.
- Strengthen engineering capability.
- Support sustainable development.
- Enable confident decision-making.
- Build resilient infrastructure.
- Foster innovation.
- Develop future leaders.
- Deliver lasting impact.

PAGE 25. LEADERSHIP, GOVERNANCE & CORPORATE COMMITMENT

Leading with Integrity, Engineering Excellence, and Long-Term Vision

Building Trust Through Responsible Leadership

The success of every engineering project begins with leadership.

Strong leadership establishes direction, builds trust, encourages innovation, promotes accountability, and ensures that organisations consistently deliver value to their clients and stakeholders.

At Great Standard Consulting Ltd (GSC), leadership is defined not by organisational

hierarchy, but by responsibility, professionalism, and a commitment to making a positive and lasting contribution to society.

Our leadership philosophy combines engineering excellence, strategic thinking, ethical governance, continuous learning, and client-focused decision-making.

Every engagement reflects our belief that technical expertise must always be accompanied by integrity, transparency, and responsible leadership.

Our Leadership Philosophy

Leadership means creating an environment where people, knowledge, innovation, and engineering excellence work together to solve complex challenges.

At GSC, our leaders are expected to:

- Lead with integrity.
- Inspire innovation.
- Promote collaboration.
- Encourage continuous learning.
- Deliver measurable value.
- Make evidence-based decisions.
- Act responsibly.
- Build long-term client relationships.

Leadership is demonstrated through actions rather than titles.

Corporate Governance

Strong Governance Creates Better Decisions

Effective governance ensures that projects are delivered ethically, transparently, and in alignment with client expectations.

Our governance approach is founded on:

Accountability

Clear responsibilities and ownership throughout every engagement.

Transparency

Open communication, regular reporting, and informed decision-making.

Professional Independence

Providing objective advice based on engineering evidence and client interests.

Ethical Conduct

Maintaining the highest standards of honesty, confidentiality, fairness, and professionalism.

Responsible Decision-Making

Balancing technical, financial, environmental, and social considerations in every recommendation.

Our Corporate Culture

Culture influences how organisations think, collaborate, and perform.

At GSC, we promote a culture based on:

Excellence

Delivering high-quality work without compromise.

Innovation

Encouraging creativity and continuous improvement.

Collaboration

Working together across disciplines, organisations, and cultures.

Respect

Valuing people, diversity, and professional expertise.

Learning

Continuously developing knowledge and organisational capability.

Responsibility

Recognising the long-term impact of engineering decisions.

Our People

Our greatest asset is our people.

We bring together professionals with expertise in:

- Engineering
- Project Management
- Energy Systems
- Infrastructure

- Digital Transformation
- Artificial Intelligence
- Sustainability
- Research
- Executive Education
- Strategic Advisory

We believe multidisciplinary collaboration enables us to solve complex challenges more effectively and deliver greater value to our clients.

Leadership in Practice

We demonstrate leadership through:

Engineering Excellence

Delivering technically sound and innovative solutions.

Client Partnership

Building trusted, long-term relationships based on collaboration and shared success.

Knowledge Leadership

Sharing expertise through research, publications, executive education, and professional development.

Responsible Innovation

Applying emerging technologies responsibly to improve engineering outcomes and organisational resilience.

Sustainable Development

Supporting projects that contribute to long-term economic, environmental, and social value.

Diversity & Inclusion

Innovation thrives in environments where different perspectives are welcomed and respected.

GSC is committed to fostering a professional culture that values:

- Equal opportunity.
- Diversity of experience.
- Cross-cultural collaboration.
- Inclusive leadership.
- Respectful communication.
- Merit-based professional development.

We believe diverse teams generate stronger ideas, better decisions, and more resilient solutions.

Professional Development

Continuous learning is central to our organisational culture.

We encourage:

- Professional certification.
- Technical training.
- Leadership development.
- Research participation.
- Conference engagement.
- Knowledge sharing.
- Mentoring.
- Lifelong learning.

By investing in people, we strengthen our ability to deliver exceptional value to clients.

Corporate Responsibility

Beyond project delivery, GSC seeks to make a positive contribution by:

- Supporting sustainable infrastructure.
- Promoting engineering education.
- Encouraging innovation.
- Sharing professional knowledge.
- Strengthening institutional capability.
- Supporting responsible energy transition.
- Advancing environmental stewardship.
- Contributing to resilient communities.

Our success is measured not only by commercial performance but also by the positive impact we create.

Our Leadership Commitments

Every member of GSC is committed to:

- Acting with integrity.
- Delivering professional excellence.
- Respecting confidentiality.
- Maintaining independence.
- Encouraging innovation.
- Supporting collaboration.
- Promoting sustainability.
- Creating long-term value for clients.

Executive Perspective

Leadership is not simply about directing projects—it is about creating confidence, inspiring excellence, and building organisations capable of delivering lasting value. At Great Standard Consulting Ltd, we lead with integrity, think strategically, act responsibly, and remain committed to engineering solutions that benefit our clients, communities, and future generations.

Leadership Principles

Principle	What It Means
Integrity	Acting honestly, ethically, and transparently
Accountability	Taking responsibility for decisions and outcomes
Excellence	Pursuing the highest professional standards
Innovation	Encouraging new ideas and continuous improvement
Collaboration	Building trusted partnerships and multidisciplinary teams
Sustainability	Creating long-term value for society and the environment
Learning	Investing in people, knowledge, and organisational capability
Client Focus	Placing client success at the centre of every engagement

PAGE 26 . LET'S BUILD THE FUTURE TOGETHER

Engineering Excellence • Strategic Advisory • Project Leadership

Your Trusted Partner for Sustainable Engineering Solutions

The world is changing rapidly.

Energy systems are transforming.

Infrastructure is becoming increasingly intelligent.

Industries are embracing digital technologies.

Governments are investing in sustainable development.

Organisations are facing unprecedented opportunities and challenges.

Successfully navigating this changing environment requires more than technical expertise.

It requires trusted partners capable of combining engineering excellence, strategic insight, innovation, and disciplined project leadership.

At Great Standard Consulting Ltd (GSC), we are committed to helping our clients make better decisions, deliver better projects, strengthen organisational capability, and create sustainable value.

Whether supporting a national infrastructure programme, modernising an electricity grid, improving industrial performance, implementing digital transformation, developing renewable energy projects, or strengthening institutional capability, we remain focused on one objective:

Helping our clients achieve long-term success.

Our Commitment

Every engagement reflects our commitment to:

✓ Engineering Excellence

✓ Strategic Thinking

✓ Innovation

✓ Professional Integrity

✓ Sustainable Development

✓ Client Partnership

✓ Knowledge Transfer

✓ Long-Term Value Creation

Why Partner with GSC?

Because we combine:

- Engineering expertise.
- Strategic advisory.
- Independent technical judgement.
- Project leadership.
- Digital innovation.
- International best practices.
- Practical implementation.
- Long-term partnership.

We do not simply deliver consulting services.

We help organisations build stronger infrastructure, stronger institutions, and stronger futures.

Our Vision

To become a trusted international engineering and strategic advisory consultancy recognised for delivering innovative, sustainable, and high-impact solutions that improve infrastructure, strengthen organisations, and support economic and social development worldwide.

Our Mission

To help governments, utilities, industries, infrastructure owners, investors, and development organisations achieve their strategic objectives through engineering excellence, digital innovation, disciplined project leadership, and sustainable advisory services.

Our Promise

Every recommendation we make...

Every study we prepare...

Every project we support...

Every partnership we build...

Will always be guided by:

- Professional Excellence
- Integrity
- Innovation
- Responsibility
- Collaboration
- Sustainability

Let's Work Together

Whether you are planning a major infrastructure investment, developing renewable energy projects, modernising industrial facilities, implementing digital transformation, strengthening organisational capability, or seeking trusted engineering advice—

Great Standard Consulting Ltd is ready to support your journey.

We welcome opportunities to collaborate with governments, utilities, private sector organisations, investors, engineering firms, technology providers, research institutions, and international development organisations.

Together, we can create engineering solutions that deliver measurable, sustainable, and lasting value.

Corporate Information

Great Standard Consulting Ltd

Registered Office

71–75 Shelton Street

Covent Garden

London WC2H 9JQ

United Kingdom

Operational Presence

United Kingdom

Germany

Europe

Middle East

Africa

International Projects

Core Services

- Engineering Consulting
- Strategic Advisory

- Project Management & PMO
- Smart Grids
- Renewable Energy
- Battery Energy Storage Systems (BESS)
- Green Hydrogen
- Digital Transformation
- Artificial Intelligence
- Industrial Energy Efficiency
- Infrastructure Modernisation
- Executive Education & Capacity Building

Contact Us

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Great Standard Consulting Ltd

Closing Statement

Engineering has the power to transform industries, strengthen economies, improve communities, and shape a more sustainable future. At Great Standard Consulting Ltd, we are proud to contribute to that future by combining engineering excellence, strategic advisory, project leadership, and innovation to deliver solutions that create lasting value for our clients and society.

Corporate Motto

Engineering Smarter Energy Futures