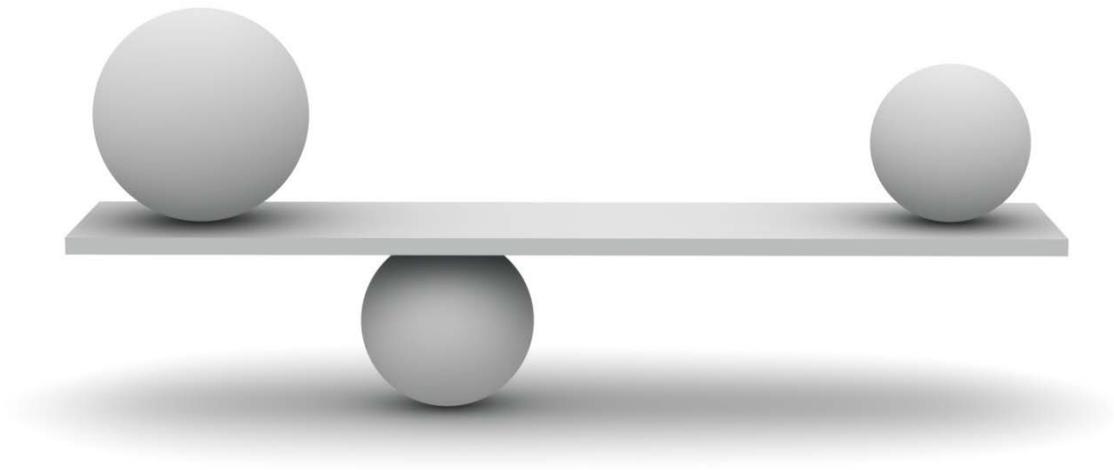


Techlift International Limited
Capability Statement



THE SCIENCE AND ART OF HEAVY LIFTING

Can it be done? Definitely

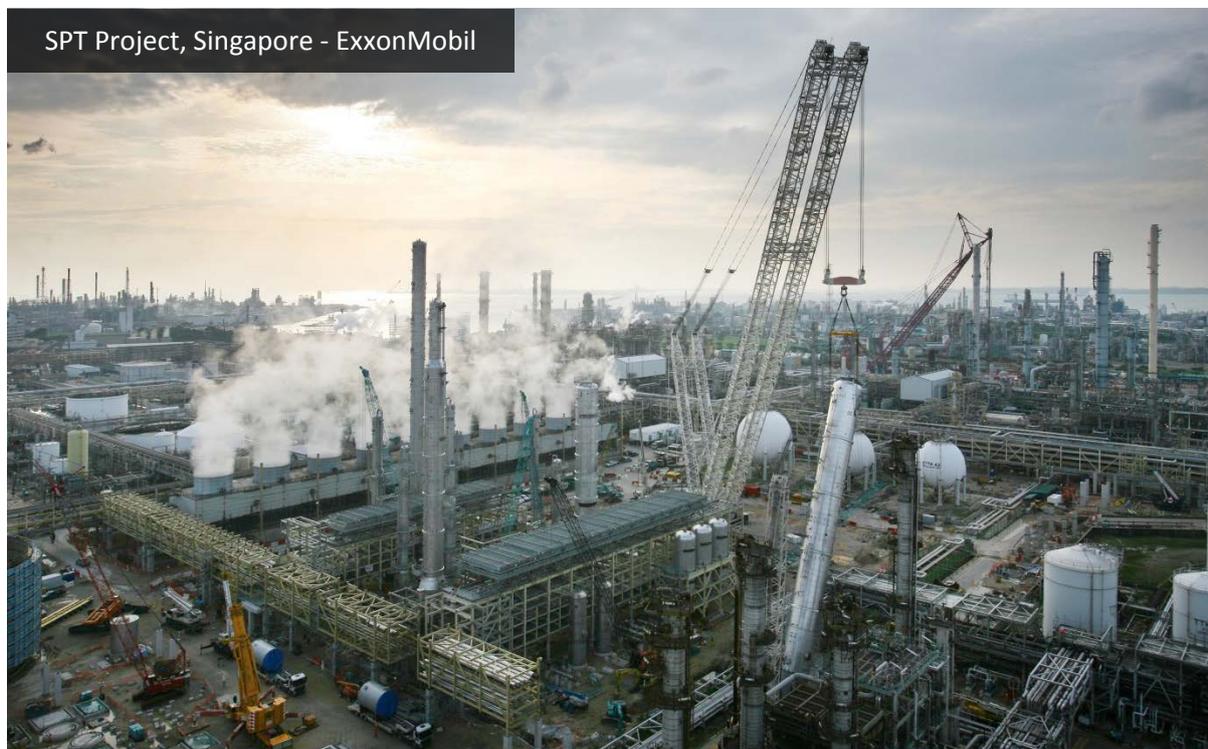
Techlift is an independent international consultancy group, specialising in heavy lift, constructability, modularisation and logistics. Our vision is to be the partner of choice to clients in diverse industries across the globe by consistently delivering the highest quality service.

The importance of independence

In today's complex world organisations need advice and support they can trust. Our independence marks us out as truly different. We provide informed and impartial advice that our clients can trust. Free from compromise, free from prejudice.

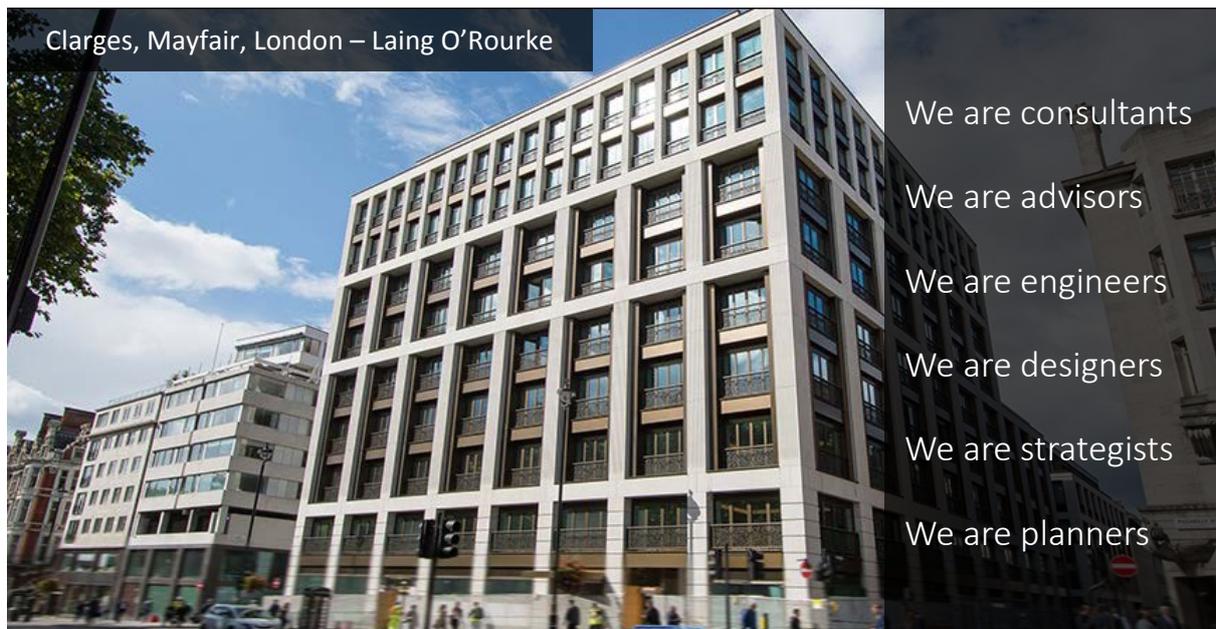
Solutions, not problems

Techlift's innovative approach is an integral part of our entrepreneurial culture. We have developed our potential for innovation by establishing a unique and diverse in-house team of engineering innovators. We provide solutions to our client's challenges.



Introducing Techlift

We are a global network of experts, working with clients, contractors and colleagues to develop and implement innovative solutions to some of the most challenging projects.



Our story

Techlift was founded in 2001 with a commitment to challenge the traditional approach to the role of heavy lifting and logistics within energy, resources and infrastructure.

Our firm belief was that by combining practical and innovative thinking with our deep industry knowledge and the latest technology, we would offer our clients a unique advantage.

Techlift provide performance driven solutions to support our clients across the complete lifecycle of their assets, from concept to decommissioning, across a broad range of industrial markets including oil & gas, chemicals, infrastructure, renewable energy, nuclear, mining & minerals.

Over the years Techlift has successfully undertaken many challenging projects across the globe. From the deserts of the Middle East to the edge of the Arctic Circle, as well as some of the world's largest metropolises along the way, Techlift has continually delivered value added solutions to our clients.

Our capability

Engineering design

Our in-house engineering team support all aspects of heavy lift, logistics and modularisation projects from feasibility studies through to constructability and detailed design. Our services include full structural design, finite element analysis, 3D modelling and animation.

Risk based planning

Integrating with our client's team from the project inception, we identify and mitigate risks at the outset. We use discrete 3D event simulation to review planning schedules; and by incorporating random variables along with project constraints, we can explore the 'what if' scenarios in a virtual environment.

Project management

Techlift offer a complete range of project management services; from key individual personnel to a full turnkey service. As the client's single point of contact, we integrate the activities of all the contractors and subcontractors to ensure the success of the overall program.

Technical auditing and project assurance

Techlift provides invaluable technical support and independent advice to our clients at tender stage through to project completion. We ensure standards of quality and safety are maintained across a project's lifespan by detailed scrutiny of technical proposals and operations of contractors, designers and vendors.

Procurement

Through our global network of contacts and specialist industry knowledge we are able to source a complete range of heavy lift and logistics equipment, as well as expert personnel; wherever and whenever our clients need them.



Sectors

Construction technology

Techlift consultants collaborate with developers, architects and structural engineers at project inception to establish the most advantageous build methodology, identify installation methods and construction sequencing.

Our experienced personnel assist our clients in determining where and when to go modular. We help assess their particular project design and circumstances and evaluate the merits of a 'built off site' or modular construction strategy against a traditional approach.

With a growing demand for energy and industrial construction across the globe, developers increasingly face challenges that can put their project delivery at risk. Increased uncertainty related to safety, quality, cost and schedule can seriously affect economics and financing options for projects.

Modular construction has emerged as an effective solution to mitigate risk, particularly on projects in remote and/or harsh-climate locations, facing limited availability of skilled workforce or extensive labour costs, or requiring greater schedule certainty.

As construction in cities becomes more and more challenging, with increased focus on site safety, disruption to local communities, environmental concerns, time constraints and skilled labour shortages, developers and contractors are turning to off-site construction methods.

As lifting operations and logistics play a pivotal role in off-site construction projects, we apply our significant experience in oil and gas modularisation and knowledge of the Design for Manufacture and Assembly (DfMA) process to offer clients invaluable input throughout an entire project life-cycle.

One of the most significant advancements in modular construction is the increase in size of the modules being assembled. This enables a project's module strategy to drive a facilities layout. Consequently, the success of modular construction projects relies more and more on the logistical possibilities available. This is where we can help.

By analysing and optimising component handling methods during manufacturing, transport and site installation, we ensure that lifting methodologies and utilisation is determined for each phase of construction, leading to increased safety, efficiency and cost savings.

Oil, gas & chemicals

As clients contend with more and more complex capital and operational cost structures, the need to ensure the highest standards of asset safety, reliability and performance begins at the earliest stages of project planning. We believe that by being involved at this stage we add measurable value to any project.

Techlift provides access to years of practical hands-on experience in identifying and mitigating risks in oil and gas plant construction and shutdown activities. By integrating with our client's team at the outset we enable them to save considerable amounts of time and money by avoiding the need to go back to the drawing board to re-engineer or re-design.

As downstream facilities develop and expand over their lifespan shutdowns and revamps become increasingly more complex and challenging. Techlift's approach is centred on safe delivery and minimising asset downtime by pre-engineering all lifting and transport operations and the planning and coordinating of shutdown contractors and logistics.

We have a core team of specialists with a wealth of experience, ensuring that we can anticipate and overcome the challenges presented by even the most complex revamps or new equipment installations.

Our clients' unique challenges often require unique solutions. We pride ourselves in always providing the smartest lifting and transport methods.

By being willing to 'think outside the box' and challenge convention we provide solutions that can optimise construction, reduce downtime and increase safety on petrochemical projects.

Our engineering design team have extensive knowledge and practical experience of alternative lifting methods such as jacking, skidding, tower gantries and strand jack systems.

Techlift personnel have worked on some of the world's largest oil and gas modularisation projects.

Our team works with clients on modular studies, FEEDS and Detailed Design to determine the factors on module versus stick build or a hybrid solution.

Our comprehensive services include:

- Interface management
- Oversight of module fabrication yards
- Module transport logistics
- On site transportation planning, haul roads, ports, etc.
- Module sequence planning
- Transport and erection equipment selection

Power generation

Techlift's experts understand the complex challenges involved in bringing new power plant construction on line, providing turn-around maintenance services and upgrades.

Techlift have significant experience in providing heavy lift services to a variety of fuel source power generators, including coal, gas, oil, nuclear, wind and wave. Using our depth of knowledge from across the energy industry, Techlift helps its clients overcome the complex challenges they face, from producing concept studies for new construction, through asset maintenance strategy, to decommissioning.

Techlift has decades of experience in planning, building, maintaining and decommissioning oil, gas and coal fired power and co-generation plants around the world.

We differentiate ourselves with a genuine commitment to safety, technical expertise, practical experience, proven execution of world-scale projects and strong, long term client relationships.

Our extensive knowledge of modularisation, mechanical handling and alternative lifting methods enables us to offer our clients creative, safe and commercially viable solutions.

Techlift has a strong track record in the renewable energy sector. We have provided support to major offshore and onshore wind energy projects in the UK and Europe. We have undertaken projects in the marine energy sector working with our clients in the tidal and wave power sectors.

Our expertise and understanding of the wider renewable energy and power generation industries enables to offer our in depth knowledge of lifting, modularisation and resource assessment to support the developing areas of biomass, carbon capture and hydropower construction and maintenance.

Recognised for our work with heavy lifting and mechanical handling operations in the UK nuclear sector, we deliver best practice to clients through our advanced technical capability and diverse industry experience.

Our experience in Safety Case development and Independent Nuclear Safety Assessment (INSA), together with our technical analysis and decision making techniques ensure that the projects we are involved in are truly optimised towards the safest possible outcome for all stakeholders.

Decommissioning

Maintaining complete compliance and operational best practice is fundamental to the success of any decommissioning project. Techlift is one of the most experienced heavy lift consultancies in many of the key areas of asset decommissioning.

Our understanding of the complex processes and systems associated with the dismantling of power plants, petrochemical facilities and mine sites provides our clients with cost savings, innovation, confidence, and added value.

Whether it's the deconstruction of a furnace in a live refinery environment or the decommissioning and removal of a complete oil and gas production facility, Techlift has the experience and capabilities to provide the solutions our clients require.

Our services include front end technical and feasibility studies, verification of cost provisions, detailed engineering - including advanced structural analysis (FEA), third party reviews - and, ultimately, full project management / execution.

Through innovation and collaboration we continually look for new approaches to decommissioning.

Techlift's experience in Safety Case development and Independent Nuclear Safety Assessment (INSA), together with our technical analysis and decision-making techniques have ensured that the nuclear decommissioning projects we have been involved with have been optimised towards the safest possible outcome for all stakeholders.

Techlift has successfully undertaken numerous decommissioning projects for the UK nuclear industry.

Techlift personnel have been involved in major infrastructure decommissioning projects around the world for many years.

From bridges and buildings to marine and railways, heavy lifting activities very often play a key role in any decommissioning, dismantling or deconstruction project.

Using our unique skills and safety performance honed in the nuclear and petrochemical industries, we plan, engineer and successfully execute our clients decommissioning projects.

Our clients

Techlift are proud to have worked with some of the most successful global construction, engineering, energy and logistics companies.



Get in touch



1 Old Hall Street, Liverpool, L3 9HF
United Kingdom

Tel: +44 (0)151 203 8200

Email: enquiries@techlift.com



PO Box 1921, Brisbane, Queensland, 4001
Australia

Tel: +61 1300 832 454

Email: enquiries@techlift.com



Morrish House, Davidson Dr, Invergordon, IV18 0SA
United Kingdom

Tel: +44 (0)1224 503 955

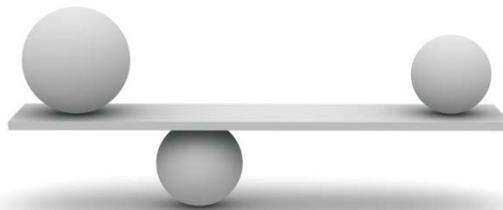
Email: enquiries@techlift.com



Moonrae-ro, Moonrae-Hillstate, Young-Deung-Po
Seoul, South Korea

Tel: +82 2 6734 3858

Email: enquiries@techlift.com



www.techlift.com

