



Balanced Engineering & Construction

COMPANY PROFILE

Complete Engineering Solutions

2024

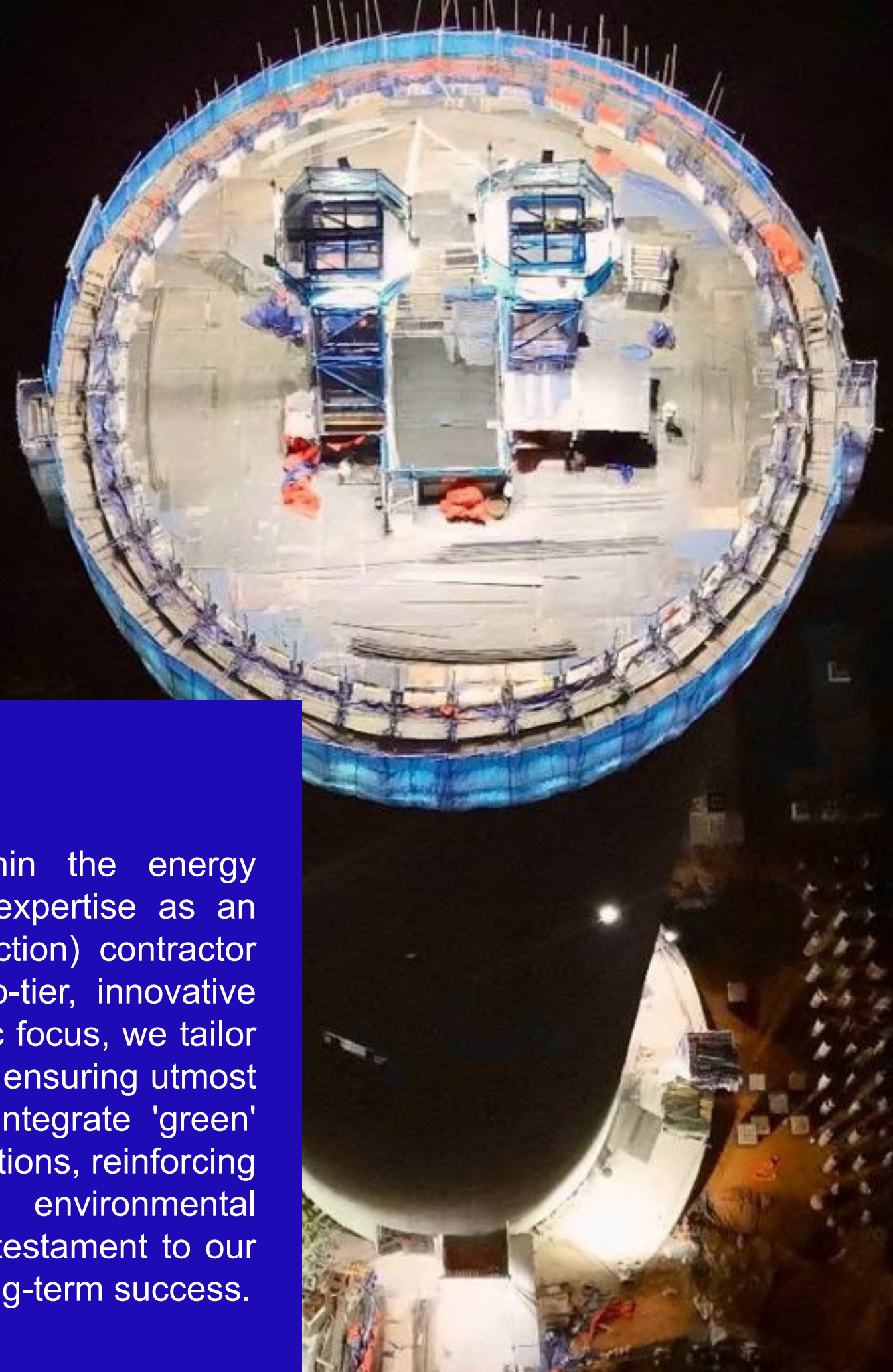
150 m high tapering hexagonal structure by BEC slipform.



VERTICAL STRUCTURE SPECIALISTS

Bespoke Solutions

BEC specialises in vertical structures within the energy infrastructure and construction sectors. Our expertise as an EPC (Engineering, Procurement and Construction) contractor and unwavering commitment to delivering top-tier, innovative solutions sets us apart. With a customer-centric focus, we tailor our services to the unique needs of our clients, ensuring utmost satisfaction. Committed to sustainability, we integrate 'green' practices seamlessly into our cost-effective solutions, reinforcing our dedication to quality, safety, and environmental responsibility. Each project we undertake is a testament to our excellence, prioritising immediate needs and long-term success.



BRIEF HISTORY

How We Started

BEC was founded in 2000 by visionary engineers and construction experts, Ian Morrison and Eddie Lloyd-Williams. From the very beginning, their mission was clear: to excel in the specialised field of industrial engineering and construction, with a primary focus on vertical structures and related services.



VISION & MISSION



118 m high observation tower by BEC slipform.

Vision

To be at the forefront of innovative engineering and construction, specialising in vertical structures. We aim to be the trusted partners of choice, shaping resilient structures that stand as testaments to excellence, sustainability, and client-centricity, while leaving a lasting impact on every horizon we touch.

Mission

To empower clients through tailored engineering and construction solutions for vertical structures. We create resilient, future-ready structures that harmonise with the environment, elevate communities, and inspire a greener tomorrow.

CORE VALUES



Safety Pioneers

We prioritise the well-being of every individual involved in our projects, from our staff to our clients and partners. Our aim is to achieve and maintain the highest safety standards, ensuring that every project unfolds without incident.



Excellence in every interaction

At BEC, excellence is not just a goal; it's our standard. We maintain the highest quality standards in every facet of our work. It's our dedication to excellence that drives us to continuously improve and exceed expectations.



On Time, Every Time

Timely project delivery is our promise. We take pride in our ability to deliver projects on schedule, honouring our commitments and reducing delays. You can count on us to keep your project on track.



Smart solutions, smart savings

We understand the value of every dollar. That's why we're committed to providing cost-effective solutions that don't compromise on quality. Our focus on efficiency and optimisation ensures you get the most out of your investment.



Unified teamwork

We treasure the strength of our interconnected team and recognise that each person plays a pivotal role in our success. We go above and beyond for our people, because we understand that our team is the foundation of our achievements.

HEALTH, SAFETY AND ENVIRONMENT

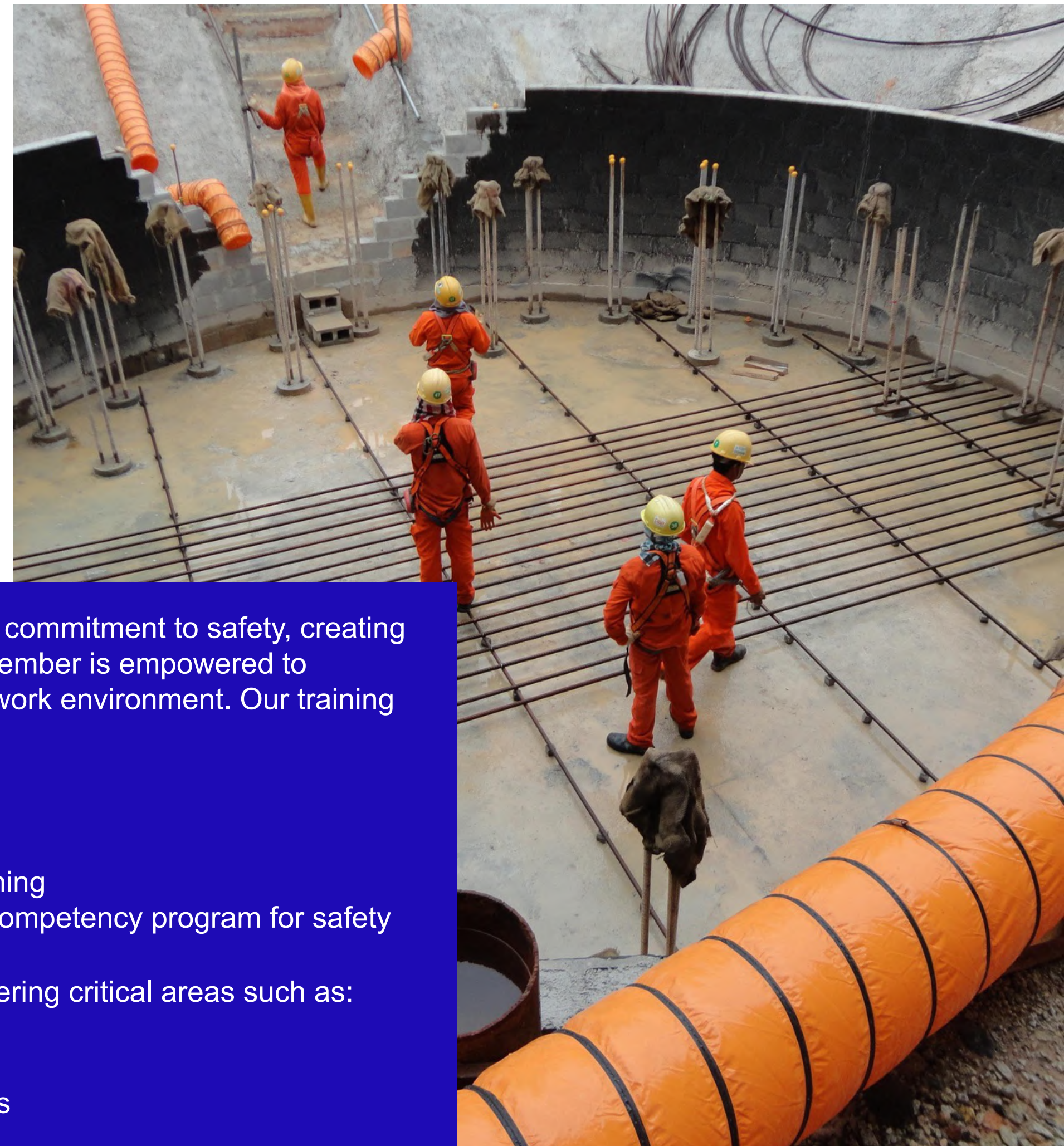
Our Commitment

We place great importance on health, safety and the environment (HSE). Our dedication to HSE is reflected in our outstanding safety record, which stands as a testament to our unwavering commitment. We adhere to rigorous safety protocols, particularly those that are specific to the operations of power plants, refineries and construction sites, and our safety standards comply with ISO 45001:2018 standards.

For BEC, safety is more than just a protocol; it's a promise – to our team, our clients, and our communities. Safety is our priority. Always!

Training is the cornerstone of our commitment to safety, creating a workplace where every team member is empowered to contribute to a safe and efficient work environment. Our training initiatives include:

- Safety induction training
- Tool box talks
- External safety technique training
- Internal skills standards and competency program for safety officers
- On-the-job safety training covering critical areas such as:
 - Metal scaffold erection
 - Abseiling & rope access
 - Confined space awareness



2023 STATISTICS



**5.97
Million**

Across Singapore, Taiwan, Hong Kong, Vietnam, Malaysia, Indonesia, and the Philippines, BEC clocked almost six million safe work hours in 2023.

**400+
Staff**

We empower our team to speak up if they see something unsafe and provide them with the training and resources they need to do their jobs safely.

**0
Harm**

In 2023, BEC achieved an outstanding milestone - zero reportable accidents and zero safety penalties from enforcement authorities!

KEY SERVICES



Industrial Services

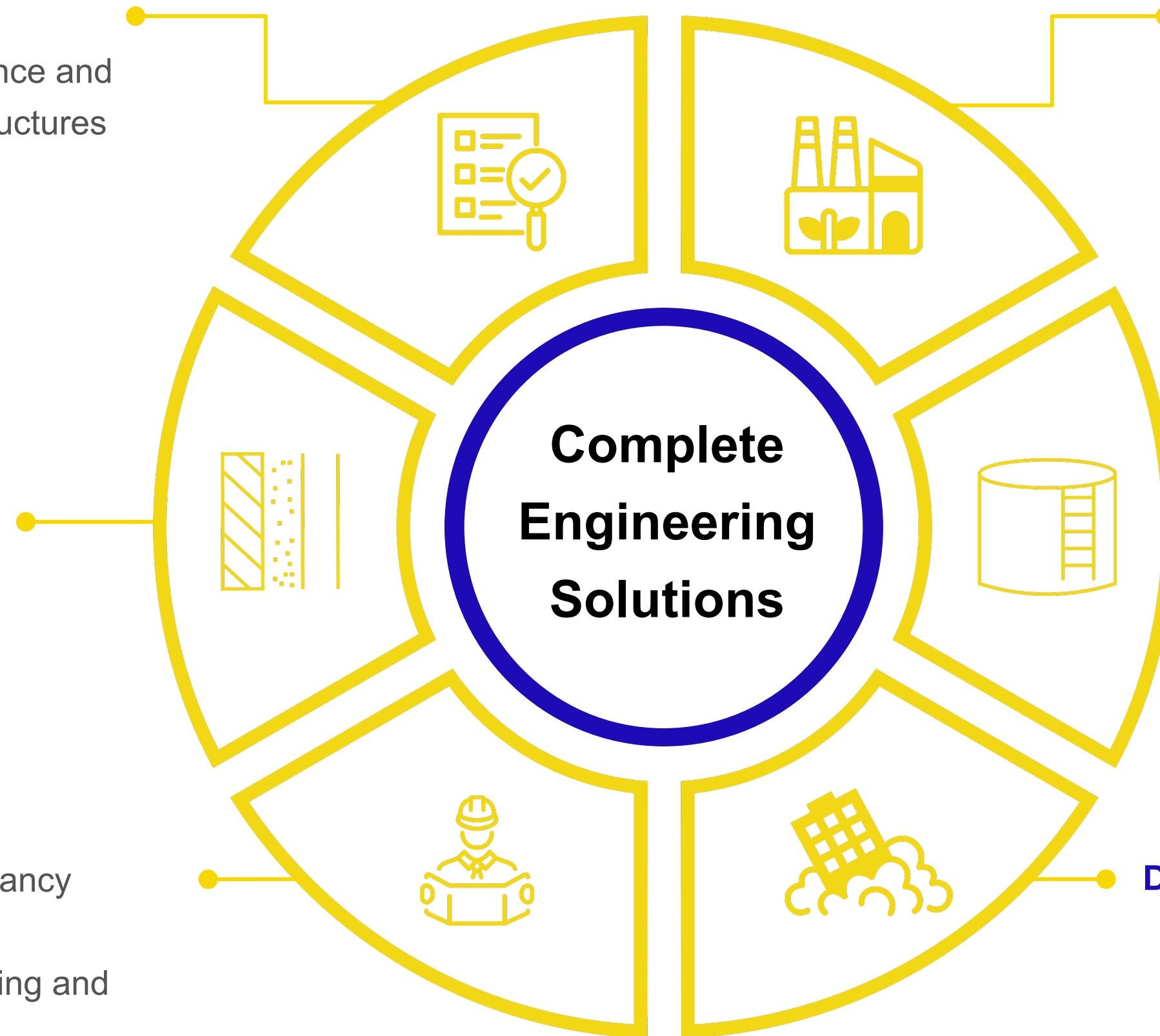
- Inspection, maintenance and repair of industrial structures
- Drone inspections
- Flare stack works
- Sulphur pits
- Integrity studies
- Cleaning operations
- General services

Protective Linings

- Lining systems
- Insulation
- Refractory

Special Services

- Feasibility studies
- Engineering consultancy
- In-house design
- Front-End Engineering and Design



Design and Build

- In-house design capability
- Construction management
- Slipform construction
- Jump form construction
- Heavy lifting
- Silos, tanks, chimneys, towers, shafts
- Sulphur pits

Gas Storage Tanks

- Low-temperature tanks
- Cryogenic tanks
- Slipform/jump form construction
- Integration/coordination with third parties

Demolition

- Various techniques including crushing and cutting
- Disposal

70 m high steel-framed
structure designed and
built by BEC.



ENVIRONMENTAL, SOCIAL AND GOVERNANCE



At BEC, we are committed to environmental, social and governance (ESG) principles that drive our business forward and shape our approach to sustainability.



STRATEGY, COMMITMENT, AND GOVERNANCE

Establishing objectives, governance structures, and enterprise-wide systems to drive ESG initiatives forward, embed them into processes and business strategies, and ensure continuous improvement in performance on ESG issues.



STAKEHOLDER ENGAGEMENT AND COLLABORATION

Facilitating collaboration both internally and externally to understand and address business impacts, ensuring alignment with stakeholder expectations and fostering transparent communication.



PROGRAMS, INITIATIVES, AND VALIDATION

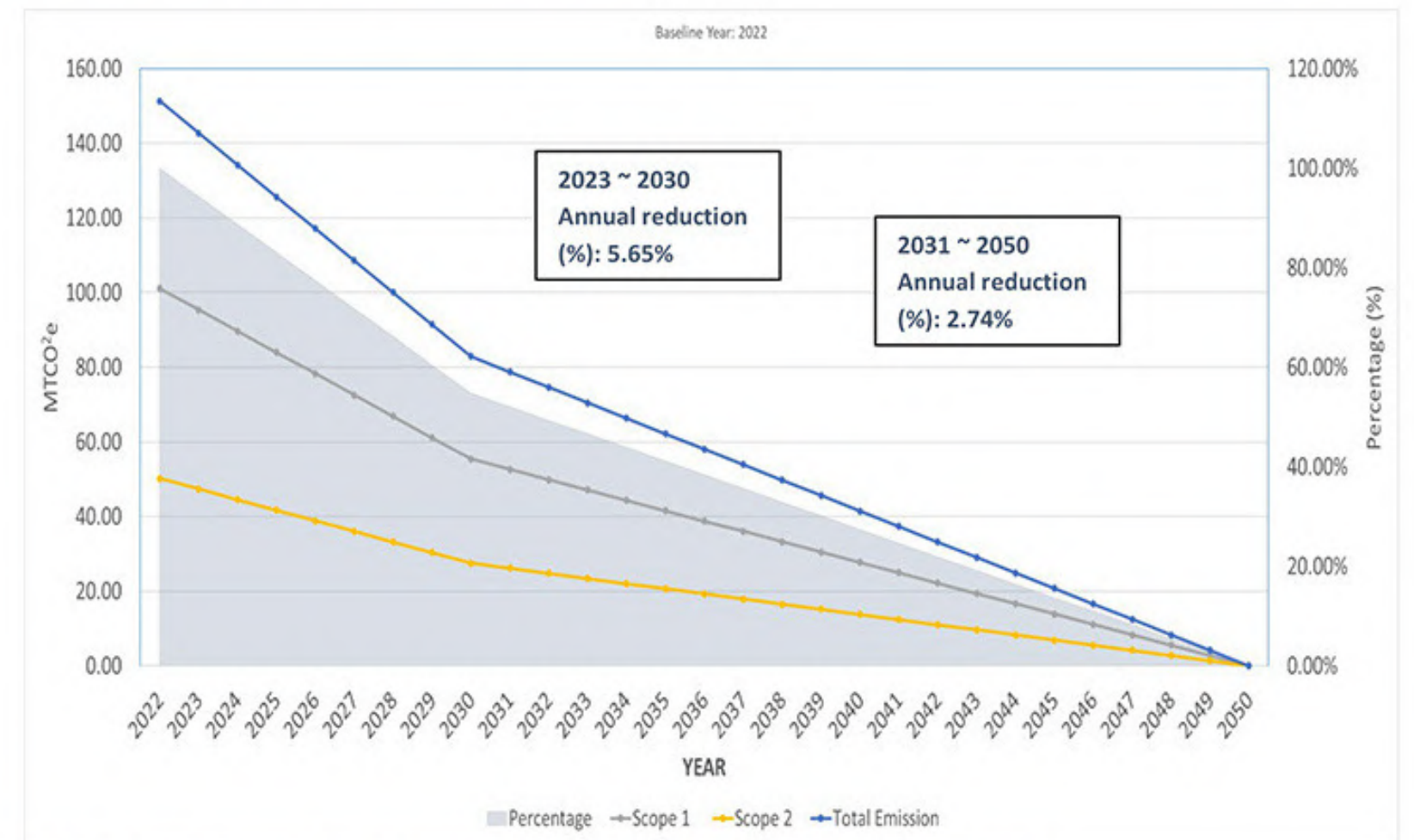
Developing action steps and roadmaps to achieve ESG commitments, along with validation efforts by external third parties to confirm progress and adherence to standards



REPORTING, DISCLOSURE AND TRANSPARENCY

Implementing a robust communications strategy to disseminate ESG data and information, making it accessible to stakeholders and fostering transparency in reporting practices.

2050 Net Zero Roadmap (SBTi 1.5°C)



Set Net-Zero Target including a Long-term Science-based Target

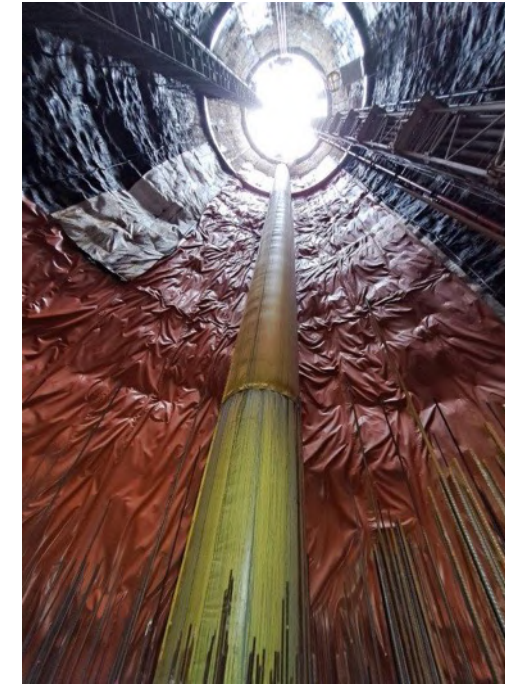
BEC commits to set a long-term science-based target to reach net-zero value chain GHGs emissions by not later than 2050 in line with the SBTi Net-Zero Standard.

NOTABLE PROJECTS



DESIGN & BUILD OF WASTE-TO-ENERGY STACK Singapore

BEC designed and constructed a 120-meter-high concrete-reinforced stack with four 2.65-meter internal diameter (ID) liners. The scope of work undertaken by BEC included a variety of critical components, including slipforming, heavy lifting, installation of a rack-and-pinion hoist, internal lighting, aviation warning lights (AWL), lightning conductors, and earthing works.



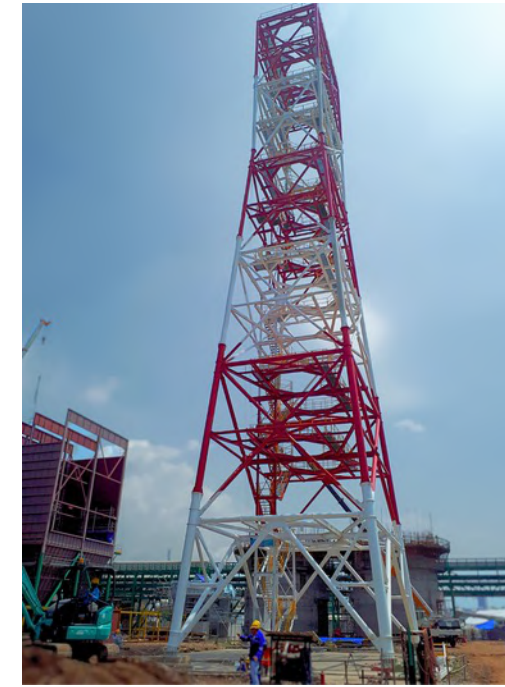
VENTILATION SHAFT SLIP-FORMING Hong Kong

BEC constructed the 76-meter-high Ho Man Tin Ventilation Shaft using slipform construction, precast and traditional reinforced concrete methods. The project included construction of internal walls, beams, corbels, slabs, staircase, and backfilling using low-strength pumpable concrete. Our comprehensive management, supervision, and skilled labor ensured the successful completion of the 20m OD by 76m high concrete shaft.



CONSTRUCTION OF CEMENT SILO Philippines

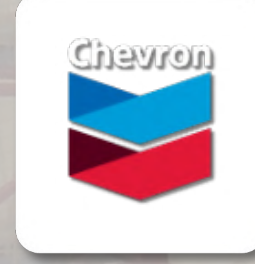
BEC was entrusted as the construction contractor of a dual-wall silo with an outer diameter of 20.7 m and height of 52.575 m. The scope encompassed intricate tasks such as concurrent slip-forming of external and internal walls, construction of the inner cone and slab, and the precise installation of roof beams. Additionally, the team skillfully managed the construction of the concrete roof.



STEEL FRAME CHIMNEY DESIGN AND BUILD Indonesia

BEC played a pivotal role in the design and construction of the steel frame chimney for PT Asahimas Chemical (ASC), a subsidiary of Asahi Glass Co Ltd (AGC). The scope of work included the supply and fabrication of steelwork frames and flues, precise erection of the steel frame and platforms, heavy lifting of flues, and the installation of critical components such as aviation warning lights (AWLs), lighting, lightning conductors, and earthing systems.

A SAMPLE OF SATISFIED CLIENTS



WHAT OUR CUSTOMERS ARE SAYING



“(BEC's) approach was very professional towards the job from the moment the contract was awarded. The detailed forward planning was very thorough and thoughtful providing an accurate implementation schedule.”

Shell Refining Company - Malaysia
R Srinivas

“It is my pleasure to recommend BEC for construction projects where high safety standards, challenging schedule and good quality of workmanship are expected.”

Republic Cement Iligan Inc
Baur Igilikov

“We highly commend your effort, cooperation and commitment given to the project. The on-time and good quality of work represents the excellence of your company.”

EEl Corporation
Simon Elmer D. San Miguel

EXPERIENCE AT A GLANCE

Displayed below are examples of projects we've undertaken across various sectors and regions. A comprehensive list of experience can be provided on request.






SLIPFORM CONSTRUCTION

-  Construction of dual-cell silo for Republic Cement Iligan Plant
-  Design and build of 240m high reinforced concrete chimney for Van Phong Power Company Limited
-  Design and fabrication of a slipform system for 118.125 m-high Kuantan Observation Tower.






INSPECTIONS, MAINTENANCE AND REPAIRS

-  Inspection service for chimney elevator for TeaM Energy Corp.
-  Inspection and improvement of chimney Flue No. 6 at Lamma Power Station
-  Three (3) x 95m tall steel stacks external and internal visual inspection for Rabigh Power Company






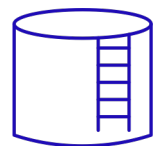
FLARE STACK WORKS

-  Flare stack tip project works for Singapore Refining Company
-  Flare stack repairs for IRPC Public Company Limited
-  Flare project - maintenance turnaround works at Petron Bataan Refinery





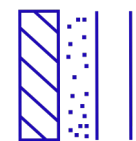
STEEL STRUCTURES

-  Design and build of 70m high steel stack for Petron Bataan Refinery
-  Design and construction of 65m steel frame chimney for PT Asahimas Chemical (ASC)
-  Fabrication and installation of 23m self supported chimney for GP1






JUMPFORM CONSTRUCTION

-  Design and build of 110m high reinforced concrete chimney at Lamma Power Station for Hong Kong Electric Company
-  General services for CLP Castlepeak Power Station







PROTECTIVE LININGS

-  Borosilicate lining supply and installation to chimney flue liner -TanjungBin Power Plant
-  Heat and corrosion resistant lining system replacement for Castle Peak Power Station
-  Refractory application and cure out on thermal oxidizer Singapore for BW Offshore Holdings Pte Ltd






SULPHUR PITS

-  Sulphur pit improvement project (replacement of refractory) for Singapore Refining Company
-  Cleaning and repairs to sulphur pit in 2011 RCC TAR for Singapore Refining Company
-  New sulphur pit for Shell Eastern Petroleum
-  Repair to SRU 3 & 4 sulphur pits for ExxonMobil Asia Pacific



DEMOLITIONS

-  Demolition works of old stack for Singapore Refining Company
-  Demolition of concrete chimney with 3 steel flues for Senoko Power Station
-  Demolition of 2 x RC chimneys at Jurong Power Station

ACCREDITATIONS, LICENSES, MEMBERSHIPS

Licenses:

- Construction License by the Building and Construction Authority of Singapore
- Construction License by Philippines Contractors Accreditation Board
- Approved Scaffold Contractor (Suspended Scaffolds) by the Ministry of Manpower of Singapore
- Approved Scaffold Contractor (Metal Scaffolds) by the Ministry of Manpower of Singapore

Membership:

- Member of CICIND (International Committee for Industrial Construction)
- Member of The Singapore Contractors Association Ltd
- Member of ASPRI (Association of Process Industry)
- Member of the Singapore Business Federation
- Member of the Singapore Welding Society
- Registered Specialist Trade Contractors Scheme (Hong Kong)



EXECUTIVE COMMITTEE



IAN MORRISON
CHAIRMAN

Ian is a seasoned construction professional boasting an impressive 49-year journey with considerable experience in vertical structure construction, maintenance, repair, and inspection, spanning over 85 distinct energy infrastructure projects. He consistently drives projects to success with innovative, cost-effective, and practical solutions.



EDDIE LLOYD-WILLIAMS
CHIEF EXECUTIVE OFFICER

Eddie is a highly qualified Chartered Civil and Structural Engineer with an impressive career spanning 31 years in consultancy, project management, technical design, and site inspections. He has extensive experience working on a diverse range of vertical structures and infrastructure development. He is a visionary leader who drives innovation, operational excellence, and sustainable growth.



WIETI KWOK
CHIEF FINANCIAL OFFICER

Wiet is a Chartered Accountant of Singapore and holds a master's degree in accounting and finance. With extensive experience in financial reporting and analysis, group consolidation, financial resource management, and financial policy design, he plays a pivotal role in overseeing the company's financial landscape across Singapore and the Southeast Asia region.



PETER GREEN
CHIEF OPERATING OFFICER

Peter is a seasoned Chief Operating Officer with an extensive background in energy infrastructure. He has gained valuable international experience and a deep understanding of diverse markets and regulatory environments during his time in Asia, including postings in Pakistan, Thailand, the Philippines, Malaysia, and Vietnam.

EXECUTIVE COMMITTEE



MIKE HENDRA

CHIEF BUSINESS DEVELOPMENT OFFICER

Mike is an experienced vertical structure specialist with a passion for excellence. He has designed and constructed industrial projects in Asia, Europe, and the Middle East, ensuring the highest standards of quality, safety, and compliance with design codes and client specifications. His leadership skills foster collaboration and efficiency, allowing projects to stay on track and meet their objectives effectively.



PALANI GOVINDASAMY

CHIEF ENGINEERING OFFICER

Palani is a Chartered Civil and Structural Engineer with 29+ years of experience. Palani's exceptional design proficiency encompasses a wide array of projects, including oil and gas facilities, nuclear power plants, reinforced concrete and steel chimneys, silos, domes, maritime and offshore structures, underground constructions, TERS (Tall Exhaust Reducing System), and complex terrains characterized by severe environmental and geological conditions.



SURIYA VEERANATHAN

CHIEF HUMAN RESOURCES OFFICER

With over 30 years of management experience, Suriya excels in sales, general administration, and human resource (HR) management. Holding a Bcom degree in HR from Curtin University and an MBA from Macquarie University, she oversees all HR and admin functions in Singapore while extending her expertise to regional offices across Southeast Asia.





CONTACT US

Contact us today to discuss your needs, request a quote, or schedule a consultation. Our experienced team is standing by to help bring your vision to life. Let's build something great together!



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baec