



Company Profile

"Your Most Trusted M&E Partner"

GC MAINTENANCE AND ENGINEERING COMPANY



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PATHWAY



World Class

Total Maintenance & Engineering Solutions Provider

GCME is committed to becoming a Total Solution Provider, offering end-to-end services from engineering design, construction, commissioning, maintenance, to performance improvement and operational excellence.

With deep expertise in Engineering, Maintenance, and Plant Inspection, we integrate our know-how with cutting-edge technologies, both developed in-house and sourced from trusted partners, to deliver solutions that truly address the challenges of our clients across all industries.



2004, GC Maintenance and Engineering Company Limited (GCME) was founded as NPTC Maintenance and Engineering Services Company Limited by collaboration between National Petrochemical Public Company Limited (NPC) and Toyo Thai Corporation Limited (TTCL)



2007, All TTCL's shareholding in NPTC was liquidated to PTT Public Company Limited (PTT PLC) then changed the name to Alliance Plant Service Company Limited (APS)



2009, APS was renamed to PTT Maintenance and Engineering Company Limited (PTTME)

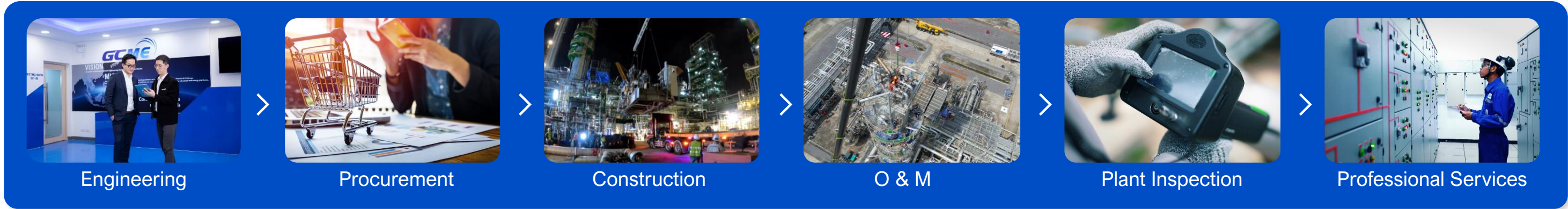
2017, All PTT's shareholding in GCME was liquidated to PTT Global Chemical Public Company Limited (GC)



2018, PTTME was renamed to GC Maintenance and Engineering Company Limited (GCME)



Our Services in Plant Lifecycle



Mr. Sarawuth Nuntavadeepisarn
Managing Director



Mr. Teekayu Charmsilpa
Deputy Managing Director
DEB

Engineering Business



Mr. Bundit Dangkowkiew
Deputy Managing Director
DMB

Maintenance & Inspection Business



Mrs. Wiwalya Mangkalakun
Deputy Managing Director
DCE

Corporate Effectiveness

VISION

World Class Total Maintenance & Engineering Solutions Provider

Mission

Growth with Sustainability

Customer Value Maximization

Maintenance & Engineering Excellence through Innovation & Technology

Employee Expertise and Ethic



GCME

OVERVIEW



Established
2004



Safety Record

Over **4.56** million hours
without lost time injury

*For the total duration from Jun 2025 – Dec 2025



Total Group Manpower
2,034 employees



Project Record (2025)

3,000+ Projects



Estimated Revenue (2025)
USD **136** million



Corporate Structure

GCME



Engineering Business

PROCESS TECHNOLOGY	DESIGN & ENGINEERING	PROJECT SERVICE	PROJECT OPERATION	COMMERCIAL SERVICE
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Engineering

- Oil and Gas Production, Separation, Integration
- Offshore
- LNG
- Petroleum Refining
- Chemicals / Petrochemicals
- Renewable Energy
- Healthcare / Life Science
- Power Generation
- Waste Treatment
- Carbon Capture and Storage (CCS)
- Sustainable Aviation Fuel (SAF)

Maintenance Business

PLANT EQUIPMENT MAINTENANCE	MACHINERY MAINTENANCE DEPARTMENT	PLANT MAINTENANCE	PLANT INSPECTION	COMMERCIAL SERVICE
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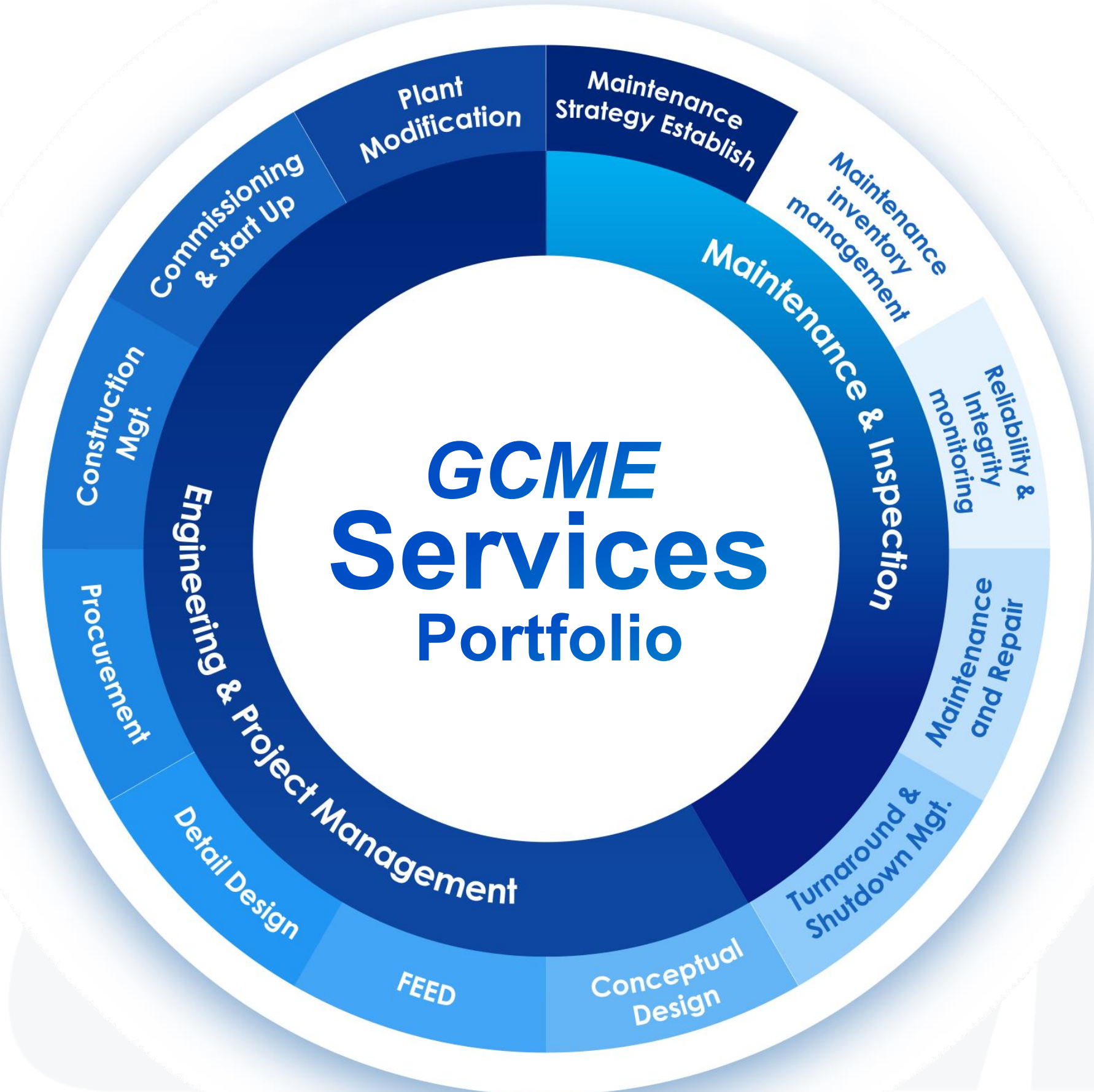
Maintenance

- Static Services
- Rotating Services
- Plant Maintenance Services
- Plant Inspection
- Turnaround Management

Corporate Effectiveness

PROCUREMENT SERVICE	QSSHE	FINANCE AND ACCOUNTING	INTERNAL AUDIT	HUMAN RESOURCE
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- Conceptual Design
- Front-End Engineering Design (FEED)
- Engineering Procurement and Construction (EPC)
- EPC Management Service (EPCM)

- Project Management Consultancy Service (PMC)
- Manpower Supply
- Advanced Technology



- Static Equipment Maintenance
- Mechanical Equipment Maintenance
- Plant Maintenance

- Manpower Supply
- Advanced Technology



- Integrity and Reliability
- Advanced NDT service
- Inspection Management and Execution
- Integration Condition Monitoring

- Advanced Technology



GCME SERVICES



Company Profile

ENGINEERING SOLUTIONS



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Organization Chart

ENGINEERING



Mr. Teekayu Charnsilpa
Deputy Managing Director
Of Engineering Business



Mr. Pairoj Hosuwanchai
Vice President



Mr. Akkarapong Pongtongpoon
Vice President



Mr. Chairat Sracoopun
Vice President



Mr. Patarawat Pathomtuppmongkol
Vice President

Process Technology

- Refinery & Aromatics
- Gas Process & Olefins
- Polymer & Chemical
- Power Plant & OSBL
- Firefighting
- Process Execution

Design & Engineering

- Electrical Engineering
- Instrument Engineering
- Piping Engineering
- Mechanical Equipment
- Static Equipment
- Civil Engineering
- Project Engineering

Project Services

- Plant Engineering
- Planning
- Cost Control
- Document Control
- Manpower Supply

Project Operations

- Project Management
- Construction Management
- Quality Control & Commissioning

Commercial Services

- Proposal
- Cost Estimating
- Project Marketing & Business Development
- Product Marketing & Business Development

Professional Services by GCME



Overview

Engineering Business

Project Experience

- Oil & Gas
- Chemical
- Biotechnology
- Renewable



Revenue (2025)

USD **63** million



Safety Record

Over **50.81** million hours without lost time injury

*For the total duration from Jun 2015 – Dec 2025



Total Manpower (2025)

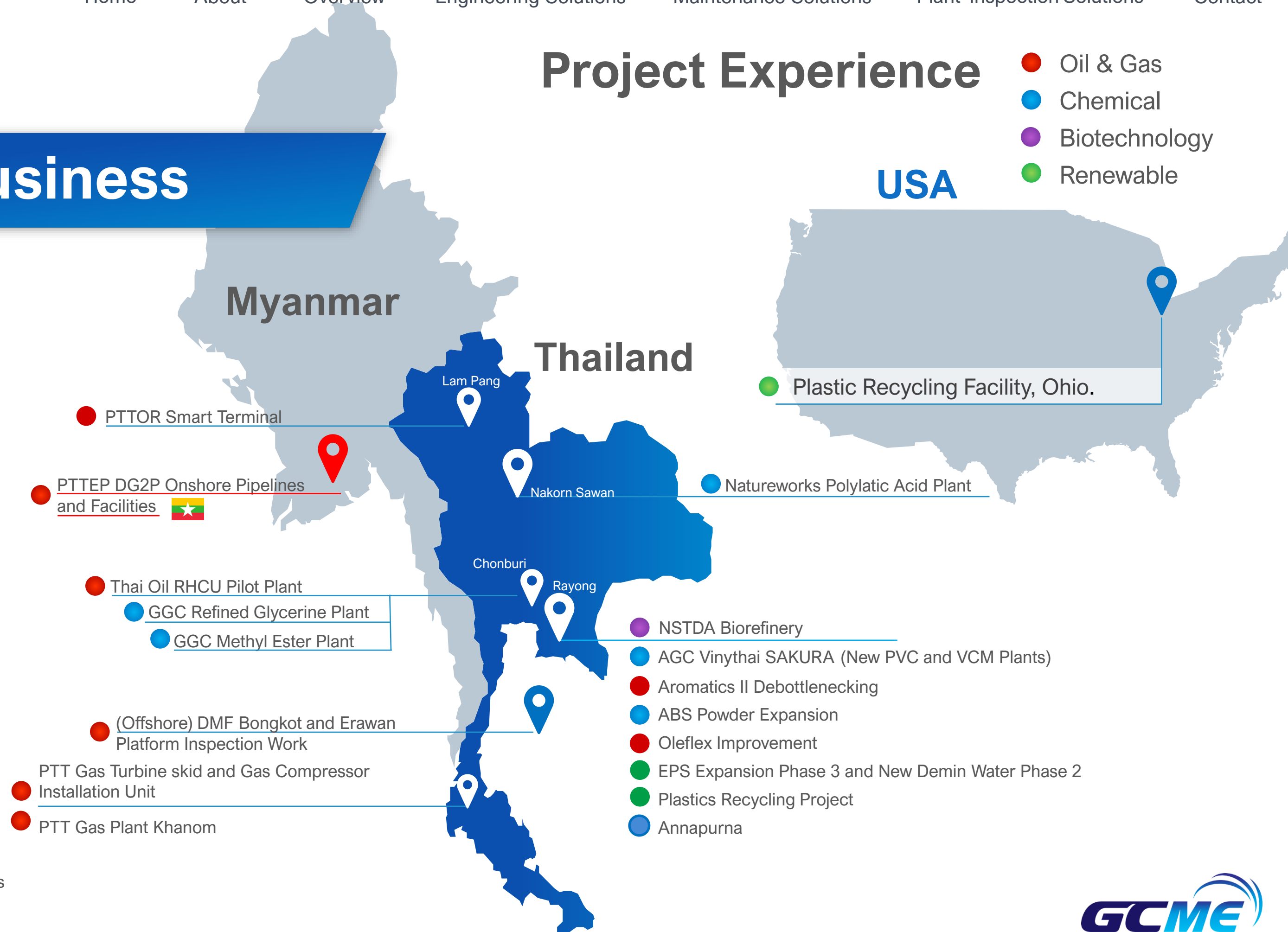
535 employees



Project Record (2025)

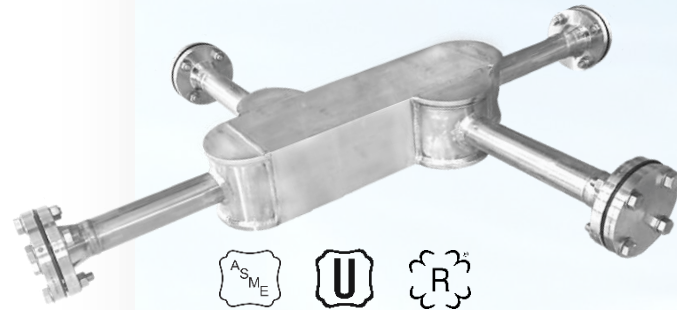
490+ Projects

- Upstream Refining Process
- Downstream Petrochemical Process
- OSBL Plant & Offsite Utilities



ENGINEERING SERVICES

- Conceptual Design
- Front-End Engineering Design (FEED)
- Engineering Procurement and Construction (EPC)
- EPC Management Service (EPCM)
- Project Management Consultancy Service (PMC)
- Plant Engineering Service
- Manpower Supply
- Microchannel Heat Exchanger



1

INVESTMENT PLANNING

- Process Development
- Licensor Evaluation
- Investment Cost

2

ENGINEERING

- Process
- Civil & Structure
- Piping
- E&I
- Rotating & Static
- Fire Fighting
- Safety Reviews
- Project Engineer

3

PROCUREMENT

- Technical and Commercial Bid Evaluation
- Review Vendor print
- Expediting Equipment

4

CONSTRUCTION

- Construction and Installation
- Supervision and Safety
- Documentation
- Material Control

5

COMMISSIONING

- Commissioning

We offer all required services out of one hand.





MAINTENANCE SOLUTIONS



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Organization Chart

MAINTENANCE



Mr. Bundit Dangkowkiew
Deputy Managing Director
Of Maintenance Business



Mr. Tepparit Chayapiwat
Vice President



Mr. Sorrasak Maneechote
Vice President



Mr. Peerasit Noptunya
Vice President



Mr. Wacharin Phunklai
Vice President



Mr. Satta Vichunilubol
Vice President

Plant Inspection

- Advanced NDT Inspection Service
- Inspection Consulting
- Inspection Management and Execute
- Integration Condition Monitoring Service
- Reliability Maintenance

Plant Maintenance

- Warehouse Management
- Plant Maintenance Services
- Maintenance Manpower Services

Mechanical Equipment Maintenance

- Rotating Equipment
- System Maintenance

Static Equipment Maintenance

- Innovation and Planning
- Maintenance Management
- Restoration Management
- Execution Management 1

Maintenance Commercial Services

- Maintenance Business Development
- Maintenance Cost Estimation & Proposal
- Maintenance Planning
- Maintenance Cost Control

Professional Services by GCME



Overview

MAINTENANCE Business



Revenue (2025)

USD **72** million



Total Manpower (2025)

1,500 employees



Project Record (2025)

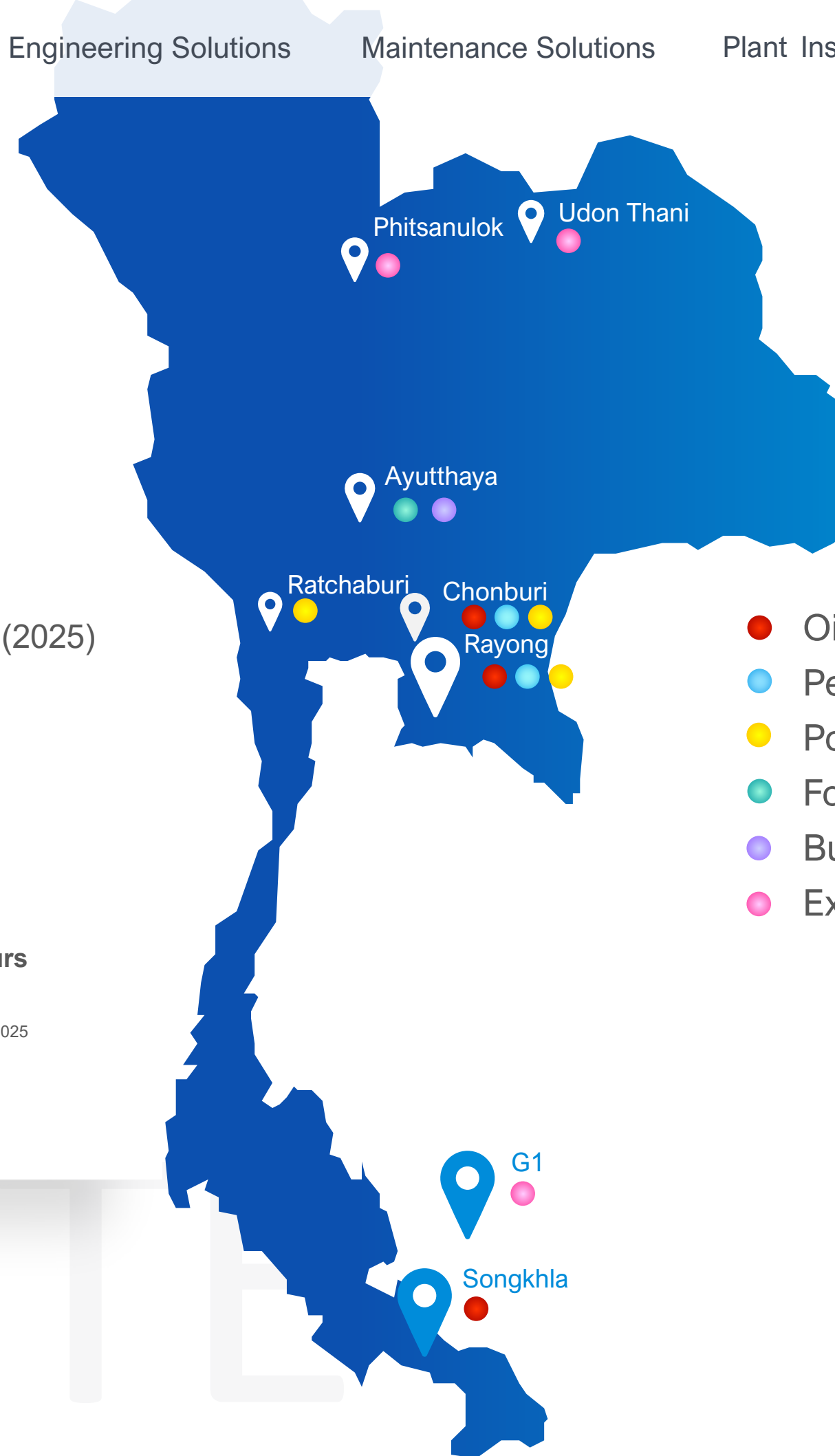
2,800+ Projects



Safety Record

Over **2.09** million hours without lost time injury

*For the total duration from Jun 2025 – Dec 2025

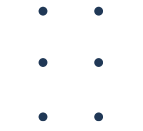


- Oil & Gas
- Petrochemical
- Power Generation
- Food & Beverage
- Building Management
- Exploration

MAINTENANCE

MAINTENANCE SERVICES

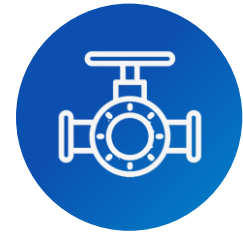
BUSINESS



Rotating Machine
Maintenance



Plant Inspection
Services



Valve
Maintenance



Maintenance & Reliability
Services



Plant Maintenance
Services



Expertise Consultancy & Product
Services

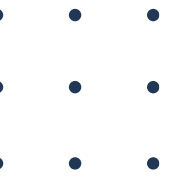


Static
Maintenance

**“Your Most Trusted
M&E Partner”**



Rotating Machine Maintenance



Critical Machine Maintenance Service

- **Gas turbines** (Heavy Duty Type and Aero Type)
- **Steam turbines** (Steam Turbine Generator and Steam Turbine Drive Compressor)
- **Compressors** : Axial Flow, Centrifugal, Screw
- **Turbo expanders & Turbo Compressor**
- Bore Scope Inspection
- Trouble Shooting



- **Minor / Major Overhaul**
- **Remove and Reinstallation Generator Rotor**
- LTSC, Umbrella Service Contract for Overhaul Rotating Machine
- Shut Down & Turnaround Service For **Overhaul** Rotating Machine
- Emergency Plant Shut Down Service

Medium Machine Maintenance Service

- Screw Compressor
- Reciprocating
- Compressor
- Small Steam Turbine
- Pump
- Fan Blower
- Cooling Tower
- Gear Box & Reduction Gear
- Agitator
- Extruder
- Dryer
- Centrifuge

Reference Job

Rotating Machine Maintenance



Major Overhaul Steam Turbine



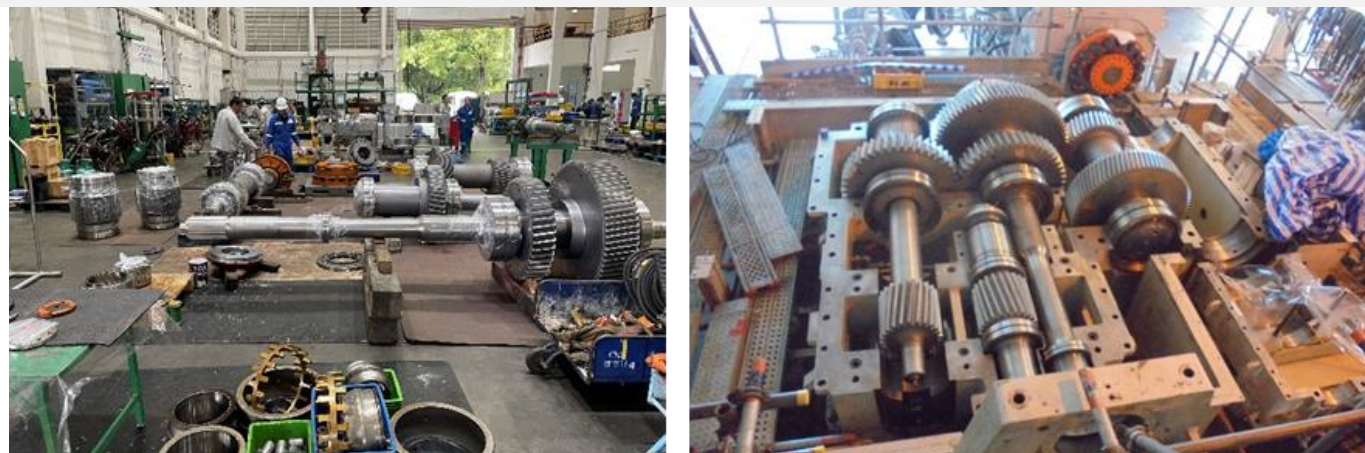
Selected client logos are presented for reference purposes only.



Change Gas Turbine Engine



Major Overhaul Extruder & Main Gear



Major Overhaul Gas Turbine



Selected client logos are presented for reference purposes only.



Major Overhaul Vertical Pump





Valve Maintenance

E&I Service



Valve Maintenance

Valve Overhaul, Valve Calibration

- Leak Test & Overhaul Control Valve 1/2"-16"
- Leak Test & Overhaul On-off Valve 1/2"-12"
- Leak Test & Overhaul Safety Valve 1/2"-12"
- Leak Test & Overhaul Manual Valve 1/2"-16"
- Pressure Seal Valve 1/2"-12"
- MOV Valve 1/2"-12"
- Valve Lapping
- Pressure Gauge & Temp Gauge Calibration



Field Instrument Calibration



- Installation and Replacement instrument tools Service
- Calibration Service
- Quality Measurement Instruments (QMI)





Plant Maintenance Service



Manpower Supply

- Deliver Quality Manpower as Requested
- Flexible scope
- Reliability & Responsibility by Owner



SLA

- Fixed scope
- Deliver work on KPI as agreed
- Reliability & Responsibility by GCME (on scope)
- Manage Keep SLA



Warehouse Management Service

1. Warehouse Management Consulting Service

We provide complete warehouse setting up consulting including developing procedure and give a training how to manage our client warehouse

2. Warehouse Management and rental service

We provide turnkey solutions – you only pay us one margin

3. Surplus management

We provide turnkey management of client no use items by selling them with reasonable price – you only pay us with reasonable charge in percent of items sold.

4. Warehouse for rent

We provide space as client requirement.





Plant Maintenance Service

Manpower Supply



Plant MT

TA-Planer

GGC

QA-QC

347



Lenzing

Innovative by nature

OR

GPSC

PTT

Lenzing

40



SLA



H-GA

LAB Technician

GCRO O&M

GCP

GC Innovation

LAB CT/PPCL

181



EnCo

KGC

Thai oil

97



Warehouse Management





Static Maintenance



Fired heater & Boiler Service

- Furnace Radiant alloy **coil repair and replacement**
- Furnace Convection coil replacement
- Fired Heater internal maintenance & repair
- HRSG, WHRU Boiler internal inspection
- Piping modification and installation
- HP, LP Flare tip maintenance & repair
- **HRSG SCR catalyst replacement**



Tank Maintenance

- Tank Repair / Tank Recondition
- Roof /Shell / Bottom Repair
- Cylindrical Tank Shutdown for inspection
- Sphere Storage Tank Shutdown



Chemical Cleaning

- Chemical Cleaning/Passivation
- Decontamination
- Tank Cleaning (**Light/Heavy** product)
- Team support joint integrity for TA GC Group



Catalyst Change Out

- Catalyst Resin, Absorbent, Activate Carbon & Various media replacement
- Working under inert gas by life support system
- **Unload by vacuum unit**
- Internal part removal and installation
- HPWJ & manual Clean drum & vessel
- Support Inspection as per ITP

Reference Job



Static Maintenance



WHRU Inspection & Pressure Test



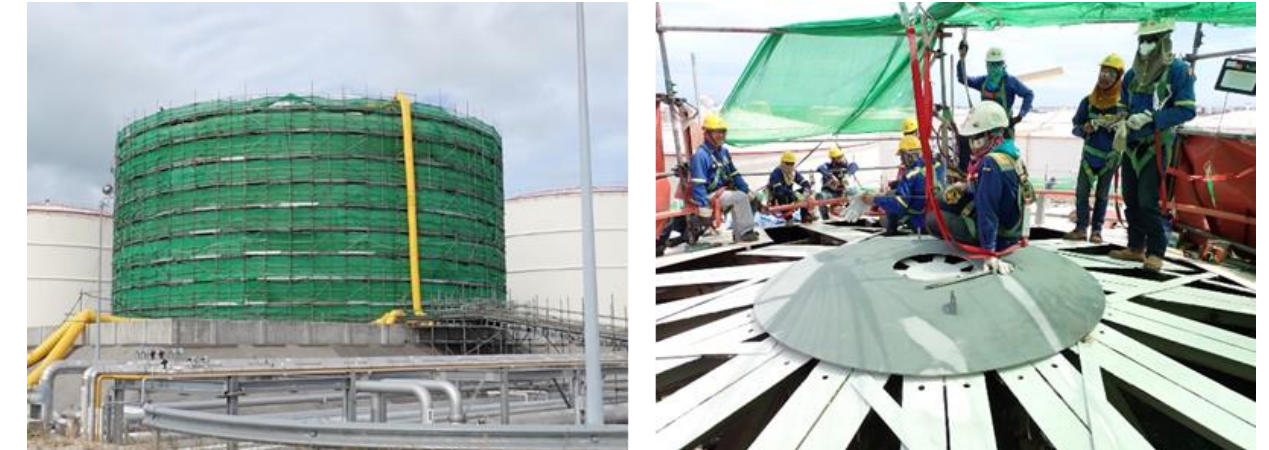
Revamp Radiant Coil



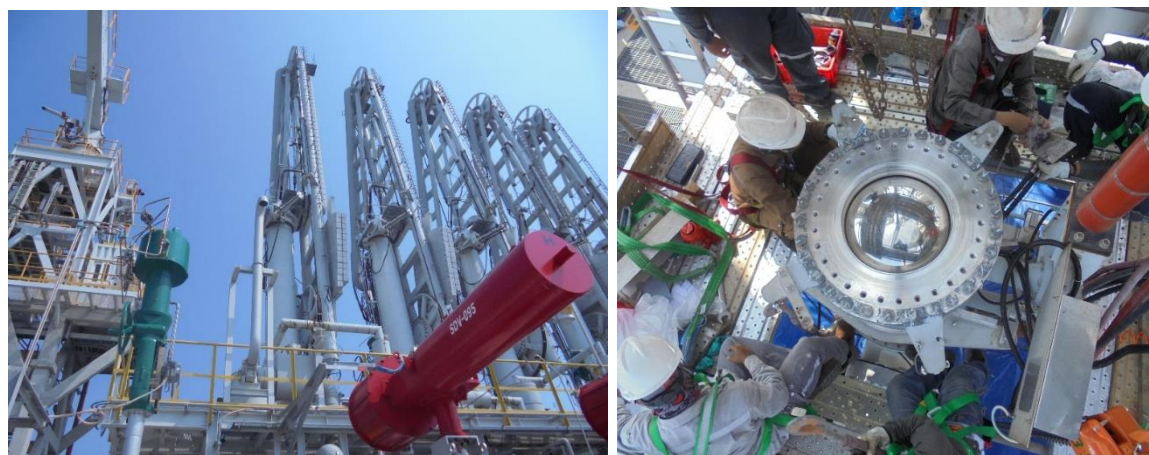
Tank Recondition



Tank Modification



Overhaul Marine Unloading Arm



Tank Chemical Cleaning





Plant Inspection Services



"We provide Professional Analysis with Advanced Technology to prevent Plant Equipment Failure"



Inspection Consulting

- RBI Assessment
- Integrity Operating Windows (IOWs)
- Corrosion Control Documents (CCDs)
- Inspection & Test Plan (ITP)
- Corrosion Control Consulting
- Root Cause Failure Analysis
- Integrity Assessment (Fitness for Services)
- Engineering Simulation (CAE, CFD, FEM)
- Turnkey CUI Management
- Turnkey CUPS Management
- Solution Provider for Pipeline Integrity
- Plant Life Assessment
- Static Equipment Integrity Assessment
- Technical training program



Advanced NDT service

- Tube Inspection (ECT/RFT/NFT/MFL/IRIS)
- Remote Visual Inspection (RVI) with 3D Measurement
- Acoustic Pulse Reflectometry (APR)
- Pulsed Eddy Current Testing (PEC)
- Pyrolysis Coil Inspection
- Phased Array Ultrasonic Testing (PAUT)
- Total Focusing Method (TFM)
- Phase Coherence Imaging (PCI)
- Time of Flight Diffraction Technique (TOFD)
- Acoustic Emission Testing (AE)
- Corrosion Under Pipe Support Inspection (CUPS)
- Corrosion at Soil and Concrete Interface Inspection
- Underwater Remotely Operated Vehicle (ROV)
- Rope Access Service



Inspection Management & Execution

- Inspection & Test Plan (ITP)
- Conventional NDT
- Field Metallographic Replication
- QA/QC inspector
- Drone UAV Inspection (Internal/External)
- Spring Hanger Inspection
- Boiler Inspection by LAW
- Boiler life Assessment by LAW
- Pressure vessel Inspection
- Tank External & Internal inspection by API
- 3D Scanner (Portable)



Integration Condition Monitoring

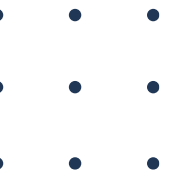
- Vibration Monitoring Service
- Solution Provider for Piping Vibration
- Remote Online Vibration Monitoring & Analysis
- Turbomachinery Vibration Diagnostic
- Motion Amplification Service for Machinery
- IR thermography
- Partial discharge inspection service
- NDT for rotating machine
- Acoustic imaging camera
- Motor Health Assessment Services (ESA,MCA)



Reference Job



Plant Inspection Services



Acoustic Emission Testing



Selected client logos are presented for reference purposes only.



Under Water Drone



Pulsed Eddy Current



Jetty Inspection



Selected client logos are presented for reference purposes only.



Tube Inspection



Selected client logos are presented for reference purposes only.



Maintenance & Reliability Services



"We provide Professional Analysis with Advanced Technology to prevent Plant Equipment Failure"



CMMS

- CMMS Master Data Cleansing & Preparation Service
- Spare Part Data Cleaning & Optimization Service
- Documents Review and Management Service



RCM

- RCM Training Service
- RCM Implementation Service
- RCM Platform (Explorer I; RCM Platform for Reliability Analysis)
- RCM Consult Service
- PM Setting and FMECA Analysis Service



Safety Integrity Study

- SIL Study Service
- SIF Re-verification for SIF Proof test Extension (Turnaround Cycle Extension)
- SIL Methodology Training & Consulting Service
- Safety Requirement Specification (SRS) Service
- ECA (Equipment Criticality Assessment Study) Service



Maintenance & Reliability Software Development Service



Maintenance & Reliability Assessment, Benchmarking, Consulting & Implementation Service

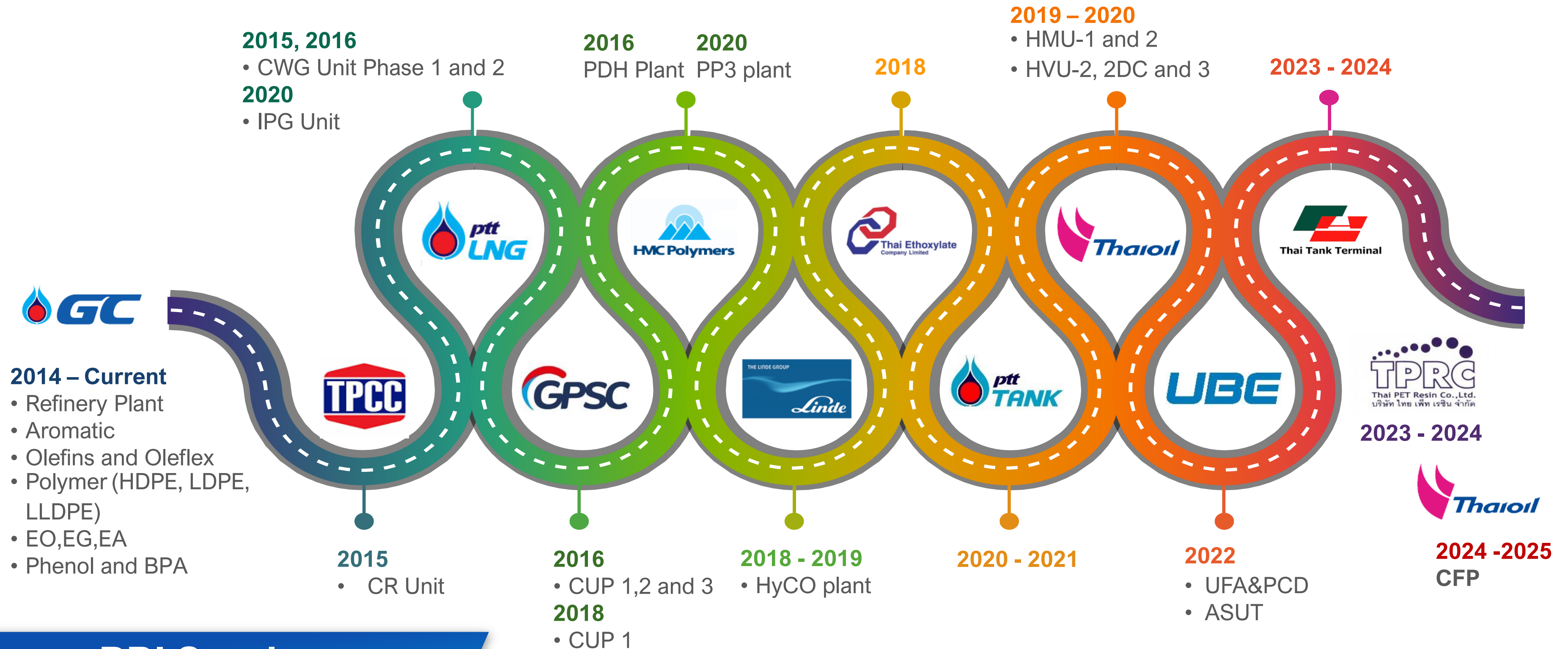


Maintenance & Reliability and Cost Effectiveness Training Service

Reference Job



Maintenance & Reliability Services



RBI Service



Expertise Consultancy & Product Services



T/A : Turnaround Management



- Turnaround Management (T/A) is the structured management of planned plant shutdowns for maintenance and inspection. It ensures activities are executed safely, efficiently, and within schedule. The goal is to restore operations quickly while enhancing plant reliability and performance.



T/A : Turnaround Cycle Extension



- focuses on extending the interval between planned shutdowns through improved asset reliability and maintenance strategies. It leverages advanced inspection, predictive maintenance, and optimization techniques to minimize downtime. The approach helps reduce operational costs while maintaining safety and plant performance.



PLA : Plant Life Assessment



- evaluates the condition and remaining useful life of critical plant equipment and structures. It uses inspection data, engineering analysis, and degradation studies to identify potential risks and failure modes. The outcome supports informed decisions on maintenance, repair, or replacement to ensure safe and reliable long-term operation.



AIO : Advance Inventory Optimization- Software Service



- is a software-driven service that optimizes spare parts and inventory levels across plant operations. It uses data analytics and demand forecasting to ensure the right materials are available at the right time. This helps reduce excess stock, minimize downtime, and improve overall cost efficiency.



Product Service



DECUPS

- DECUPS is a glass fiber reinforced epoxy wear pad designed to prevent corrosion under pipe support (CUPS) by isolating metal contact



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Opening Hour
From Monday – Friday

8.00 am to 5.00 pm

Engineering Solutions



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Maintenance Solutions & Plant Inspection Solutions



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