

# TTCL



## COMPANY PROFILE

JOY OF ENGINEERING AND ACHIEVEMENT WITH ALL OUR MIGHT

FIRST CLASS INTERNATIONAL ENGINEERING COMPANY



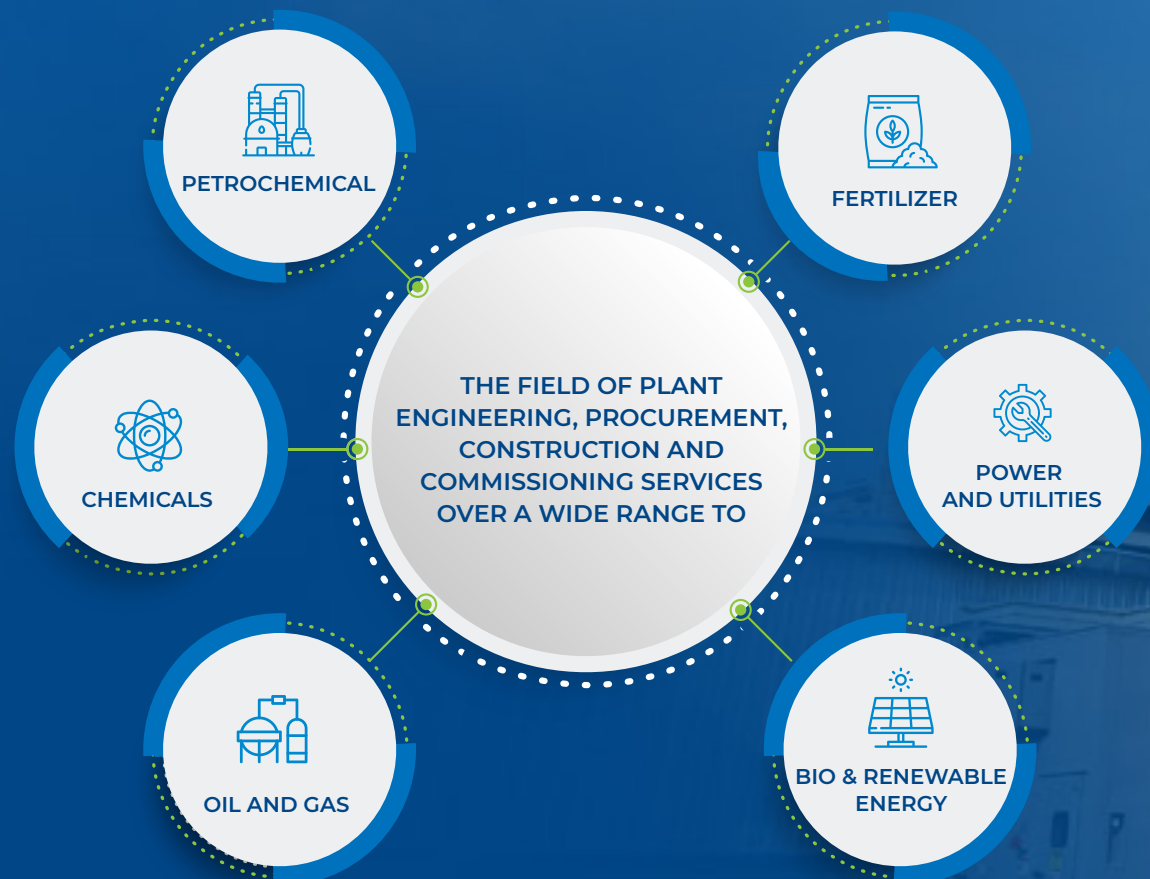


## ABOUT TTCL

WE ARE

# TTCL Public Company Limited

TTCL is the first integrated Engineering, Procurement and Construction (Integrated EPC) Company in Thailand. We have extensive experience and expertise in providing integrated design and engineering, procurement of machinery & equipment, and construction of turnkey projects for industrial and process plants, primarily in petrochemical, chemical, oil and gas, fertilizer, power and energy sectors.



Our competitive edge, driven by cost efficiency and specialized engineering teams for managing several kinds of project and complex technologies, has enabled TTCL to expand its presence in both domestic and international markets





## TTCL'S FOOTPRINT

### UNITED STATE OF AMERICA

- 2017 Chlor-Alkali
- 2013 CO2 Capture
- 2007 VCM & Chlor-Alkali
- 2005 Chlor-Alkali

### SPAIN

- 2011 Chlor-Alkali

### BANGLADESH

- 2004 DAP
- 2022 Chlor-Alkali

### QATAR

- 2013 Desalination
- 2015 Desalination
- 2020 Heat Recovery Plant

### UAE

- 2010 DTEC

### THAILAND

- 2023 SAFU
- 2022 Biopolymer
- 2022 Carbon Black
- 2022 Chlor-Alkali
- 2021 Clean Product Euro-V
- 2020 TOP SPP Power Plant
- 2019 Olefins Reconfiguration
- 2018 Ethylene Expansion
- 2015 LLDPE & Hexene-1
- 2014 CPVC Resin
- 2014 Power Plant
- 2013 PBS
- 2012 MMA & TMAA

- 2011 SSBR
- 2011 Chlor-Alkali
- 2011 Photovoltaic Electric
- 2010 Epichlorohydrin
- 2009 1-6 Hexanediol
- 2008 Hydrogen Peroxide
- 2008 Bisphenol-A
- 2007 Methyl Methacrylate
- 2007 Chlor-Alkali
- 2006 LLDPE
- 2006 LDPE
- 2006 Ethane Cracker
- 2005 VCM



### SPAIN



### BANGLADESH



### QATAR



### UAE



### MYANMAR



### INDONESIA



### MALAYSIA

### MALAYSIA

- 2020 Syndiotactic Poly-Styrene
- 2014 OSBL for Steam Cracker Complex
- 2012 Photovoltaic Electric
- 2011 Rare Earth
- 2009 Bio-Pellet (FS)
- 1998 OXO (Engineering)
- 2012 Power Plant
- 1997 Aviation Fueling

### CHINA

- 2006 MDA/UAT
- 2004 MMDI
- 2003 Polymer

### LAOS

- 2015 KCI

### VIETNAM

- 2023 Refrig. LPG Termina
- 2018 LLDPE
- 2012 Ammonium Nitrate
- 2011 DAP2
- 2010 Ethanol
- 2005 Dun Quat Refinery (Engineering)
- 1997 NPK Fertilizer

### INDONESIA

- 2010 Chlor-Alkali (FEED)



### CHINA

### LAOS

### VIETNAM

### THAILAND

### PHILIPPINES

### PHILIPPINES

- 2011 PE Expansion

### TIMOR LESTE

### TIMOR LESTE

- 2018 Petrochem (FEED)
- 2013 Refinery (FEED)

With over 38 years of experience as a leading provider of Integrated EPC services, the Company group has successfully designed and constructed more than 400 projects. These achievements showcase our reputation and clients trustworthy for delivering quality design and construction, meeting project timeline, and ensuring safety throughout operations.



**+38 YEARS**  
OF EXPERIENCE



**+400 PROJECTS**  
SUCCESSFULLY DESIGNED  
AND CONSTRUCTED



WE CONTINUOUSLY DELIVERS  
**HIGH QUALITY SERVICES**  
SUCCESSFULLY DESIGNED & CONSTRUCTED

Currently, the Company has made a substantial progress in developing the various new energies and biomass projects. This expansion has transformed us into more than an integrated EPC contractor; we have also become the project developers with wealth of experience. The Company continuously delivers high quality services and expands its investment portfolio especially in sustainable energy business.



## TTCL'S MILESTONES OVER THE YEARS



Establishment of  
Toyo-Thai Corporation Limited  
(TTCL)

1985

1987

Expanded its International  
Business to USA, Qatar,  
China, Vietnam, Malaysia  
and Myanmar



Certified for the Quality  
Management System  
ISO 9001:2000

2002

2006

Received orders for  
3 Grassroots world-scale  
Petrochemical Plants



Listed company in  
the Stock Exchange of Thailand

2008

2012

Establishment of  
Toyo Thai Power Myanmar  
Company Limited



Changed the company name to  
"TTCL Public Company Limited"

2015

2020

Acquired the share of  
Blackwood Technology B.V.

**Blackwood**  
TECHNOLOGY



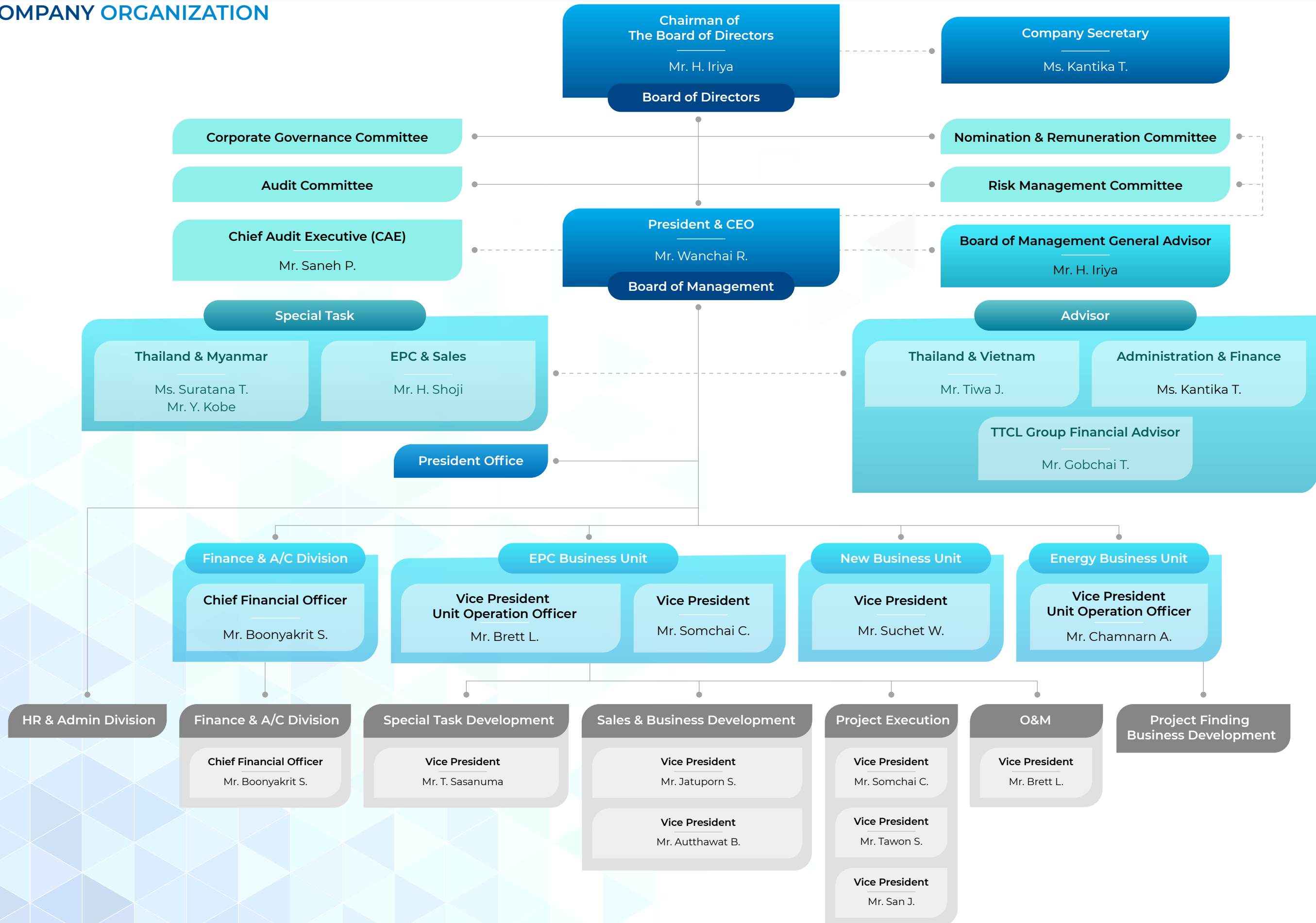
Establishment of  
NT Biomass Products Co., Ltd  
and Ariya Biofuel Co., Ltd.

2023





## COMPANY ORGANIZATION







## BOARD OF DIRECTORS



**MR. HIRONOBU IRIYA**

Chairman of Board of Director



**POL. LT. SIVARAKS PHINICHAROMNA**

Vice Chairman & Independent Director



**MRS. NIJAPORN CHARANACHITTA**

Director



**MR. TIWA JARUKE**

Director



**DR. SEICHI ITAKURA**

Director



**MR. WANCHAI RATINTHORN**

Director



**MS. KANTIKA TANTHUVANIT**

Director & Company Secretary



**MR. BRETT LOLLBACK**

Director



**MR. YASUHIDE KANO**

Director



**MR. SUVIT MANOMAIYANON**

Independent Director



**MR. NUTTACHAT CHARUCHINDA**

Independent Director



**MR. EIJI HAGIWARA**

Independent Director





## BOARD OF MANAGEMENT



**MR. WANCHAI RATINTHORN**

President & CEO



**MR. BOONYAKRIT SAOWAN**

Chief Financial Officer / Finance and Accounting Division



**MR. BRETT LOLLBACK**

Vice President Unit Operation Officer EPC Business Unit /  
Vice Presiden Operation & Maintenance Division



**MR. SOMCHAI CHANSIRIPONGSE**

Vice President Project Execution EPC Business Unit



**MR. SUCHET WATCHALAYAN**

Vice President New Business Unit



**MR. CHAMNARN ATSANATAM**

Vice President Unit Operation Officer Energy Business Unit



**MR. TOSHIHIRO SASANUMA**

Vice President Special Task Development /  
General Manager Sales & Contract Div.



**MR. YASUHIDE KANO**

Vice President Special Task Development



**MR. JATUPORN SANGWARN**

Vice President Sales & Business Development /  
General Manager (Proposal) Sales & Business Development  
Division



**MR. AUTTHAWAT BOONYASAKSEREE**

Vice President Sales & Business Development / General Manager  
(Sales & Contract) Sales & Business Development Division



**MR. TAWORN SUKRSISARANJITR**

Vice President Project Execution / General Manager  
(Engineering) Project Execution Division



**MR. SAN JAISONG**

Vice President Project Execution / General Manager  
(Construction) Project Execution Division / Manager QA/QC  
Department / Manager Construction Department





## OUR VISION & MISSION

TTCL IS TO BE

# First Class International Engineering Company

WITH “BUILD UP WARMTH AND TRUST” ... “STAY YOUNG”  
“UNITE IN HARMONY”... “SPEAK OUR MIND”

## Joy of Engineering and Achievement with all our might

TTCL aims to be a company where everybody works with  
joy of engineering and achievement

## OUR VALUE CHAINS

As the goals, vision and mission under the sustainable development framework into determine direction of operation of all activities in value chains and to be create co-value between the company and all group of stakeholders through “SMART” goals.



### SPECIFIC

To provide quality work for our customers



### ACHIEVABLE

Conduct feasibility studies for new projects in collaboration with project owner, Joint Venture (JV) or investors to create co-value for the company. This includes the development of technology and the exploration of new innovations to be applied in operations, a contributing to project achievement.



### TIMELY

To establish clear work schedules, and deliver high quality work on time, ensuring the highest level of customer satisfaction.



### MEASURABLE

Establish statistically measurable goals to be used as a standard for operational development and maintenance of work quality, thereby ensuring customer satisfaction and trustworthiness leading to continuous service provision.



### REALISTIC

To achieve the truly requirement of all group of stakeholders





## OUR BUSINESS & SERVICES

CONSTRUCTION · OPERATION & MAINTENANCE (O&M) >

INVESTMENT >

OTHER SERVICES >



# Engineering

Establish statistically measurable goals to be used as a standard for operational development and maintenance of work quality, thereby ensuring customer satisfaction and trust worthiness leading to continuous service provision.



# Procurement

In providing the procurement services, the Company sources all necessary machines and equipment for the project from both domestic and overseas vendors / manufacturers. The Company negotiates for purchase conditions, execute inspection keep high quality and machine specifications, and equipment to conform to the engineering design and project schedule as an overall project.





## OUR BUSINESS & SERVICES

[ENGINEERING · PROCUREMENT](#) >

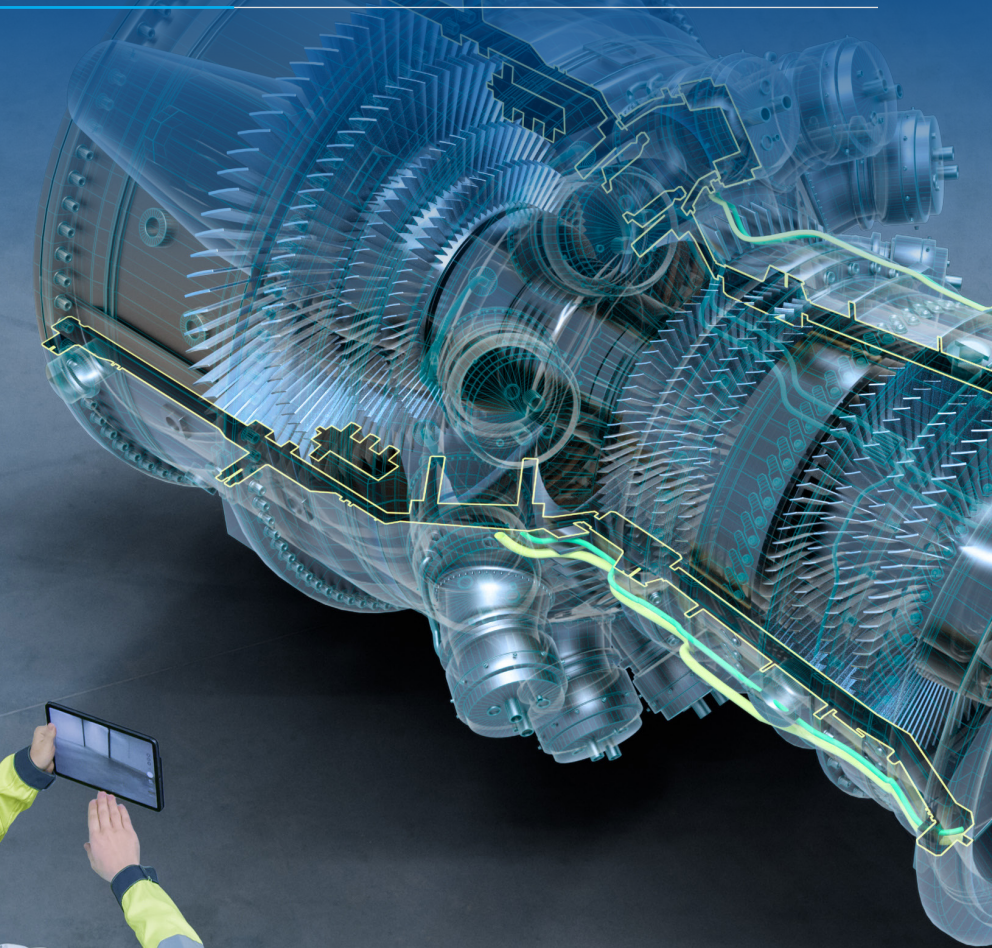
[INVESTMENT](#) >

[OTHER SERVICES](#) >



# Construction

Throughout the construction project life cycle, the Company has responsibilities to control the quality of construction works within the project budget and schedule. To maintain a high performance and competitiveness, the Company assigns most appropriate construction and engineering teams that best fit to each particular project, and preserves a good relationship with project stakeholders including sub-contractors, vendors, and all concerned party.



# Operation and Maintenance (O&M)

In response to requirement for a stable plant operation for the long term, the Company provides O&M services to maintain an effective operation for the plants, mainly in power generation and Torrefied pellet.





## OUR BUSINESS & SERVICES

ENGINEERING • PROCUREMENT >

CONSTRUCTION • OPERATION & MAINTENANCE (O&M) >

OTHER SERVICES >



# Investment

In response to requirement from clients, both Private and Governmental Entity, the Company can provide an investment service in addition to EPC, and this transaction can stabilize the Company income for a long term. The Company may invest into joint venture (JV) entity together with strategic partners.

Gas-fired  
Power  
Plant

Emerging  
Market

Build  
Operate-  
Transfer  
Contract

Investment  
Model &  
Strategy

Renewable  
Energy

Low Carbon  
Economy

Biomass

Solar  
Power







## OUR BUSINESS & SERVICES

ENGINEERING · PROCUREMENT >

CONSTRUCTION · OPERATION & MAINTENANCE (O&M) >

INVESTMENT >



## Other Services



### Feasibility Study

The Company can support the review of project's feasibility technically and commercially. During the feasibility study the Company will verify the followings:

- Technology selection
- Project cost estimation
- Economics and sensitivity study
- Financial arrangement
- Market investigation
- Facility design
- Optimizing process configuration
- Law and regulations



### Patent and License

The Company has acquired Blackwood Technology (Blackwood) as torrefied pellet technology licensor. Accordingly, it is the business synergy that the Company can provide EPC service together with a license service via Blackwood and the Company can diversify the group profit.



### Arrangement of Off-taker and Finance

By the Company's broad network based on EPC and investment experiences. The Company is able to arrange a reliable off-takers and lenders for the projects.



### Arrangement of Feedstock

Together with strategic partners, the Company is able to arrange feedstock to biomass projects.





## OUR PERFORMANCE REPUTATIONS : 1

OUR PERFORMANCE REPUTATIONS : 2 [➤](#)

CLIENT NAME	LOCATION	PROJECT DESCRIPTION	BUSINESS TYPE <sup>/1</sup>	YEAR
BSGF Co., Ltd.	Thailand	Sustainable Fuel Development Project / Gas Engine Generator, GEG HRSG#4	E.P.C.	2023
Yen Hung Petrochemical Joint Stock Company	Vietnam	YHP Refrigerated LPG Terminal Project	E.P.C.	2023
BSGF Co., Ltd.	Thailand	Sustainable Fuel Development Project / Sustainable Aviation Fuel Unit	E.P.C.	2023
Bangchak Corporation Public Co., Ltd.	Thailand	Enclosed Ground Flare Plant 2/3 Project	E.P.C.	2023
Bangchak Corporation Public Co., Ltd.	Thailand	Clean Product Quality Improvement Project (Euro V Project)	P.C.	2023
Thai MMA Co., Ltd.	Thailand	Methacrylic Acid#3 Project	E.P.C.	2023
NatureWorks Asia Pacific Co., Ltd.	Thailand	Sequoia Project / Lactic Acid, Lactide and Polymer	E.P.C.	2022
Thai Tokai Carbon Product Co., Ltd.	Thailand	TCP New Project Carbon Black	E.P.C.	2022
Dhaka Salt & Chemicals Limited	Bangladesh	City Group Chlor Alkali Plant Project	E.P.C.	2022
AGC Vinythai Public Co., Ltd.	Thailand	AGC-RCA 5 Project Chlor Alkali	E.P.C.	2022
PTT Public Co., Ltd.	Thailand	RTO System Packages for ESP and GSP6 / Regenerative Thermal Oxidizer	E.P.C.	2022
Qatar Petrochemical Company	Qatar	QAPCO HRSG Project-A	E.P.C.	2022
PTTEP SP LIMITED	Thailand	Sinphuhorm Central Booster Compressor and its Facilities	E.P.C.	2022
Rayong Engineering & Plant Service Co., Ltd.	Thailand	NBL Phase II Project	E.P.C.	2022
EGCO Cogeneration Co., Ltd	Thailand	EGCO Cogeneration SPP Replacement Project / Combined Cycle Power Plant	E.P.C.	2022
DHG Pharmaceutical Joint Stock Company	Vietnam	New Beta-lactam Factory meets GMP Standards	E.P.C.	2022
TOA (Thailand) Co., Ltd.	Thailand	Sunrise II / Pure Acrylic Resin	E.P.C.	2021
Shin-Etsu Engineering Co., Ltd	Thailand	Shintech Plaquemine CA Plant-S Phase 2 Project	E.P.C.	2021
Bangchak Corporation Public Company Limited	Thailand	Clean Product Quality Improvement Project (EURO V)	FEED E.PS.CM.	2021
PROVINCIAL ELECTRICITY AUTHORITY	Thailand	PEA Substation, Khon Kaen 5	E.P.C.	2021



## OUR PERFORMANCE REPUTATIONS : 2

OUR PERFORMANCE REPUTATIONS : 1 [➤](#)

CLIENT NAME	LOCATION	PROJECT DESCRIPTION	BUSINESS TYPE <sup>/1</sup>	YEAR
PTT Public Co., Ltd.	Thailand	GSP Logistics Management Phase 2 Project / Storage Tanks and Pipeline for Petrochemical Product	E.P.C.	2021
Idemitsu Green Energy Vietnam Co., Ltd.	Vietnam	Torrefied Pellet Plant	E.P.C.	2021
Thang Long Energy Environment JSC	Vietnam	Municipal Solid Waste to Energy	E.P.C.	2021
Nghi Son Refinery and Petrochemical Limited Liability Company	Vietnam	Refinery Biological Pond System	E.P.C.	2021
Qatar Petrochemical Company	Qatar	QAPCO HRSG Project	E.P.C.	2021
TOP SPP Co., Ltd.	Thailand	TOP SPP Expansion Project / Combined Cycle Power Plant	E.P.C.	2020
Vinythai Public Co., Ltd.	Thailand	PVC Pilot Plant Project	E.P.C.	2020
Idemitsu Advanced Materials (Malaysia) Sdn. Bhd.	Malaysia	2SP Project / Syndiotactic Poly-Styrene (SPS)	E.P.C.	2018
Long Son Petrochemicals Co.Ltd.	Vietnam	LSP LLDPE Project	E.P.C.	2018
Map Ta Phut Olefins Co., Ltd.	Thailand	MOCD2 Expansion Ethylene capacity expansion	P.C.	2018
Denko Petrochemical Management Co., Ltd.	Myanmar	Shwe Lin Pan Depot Project	E.P.C.	2018
Duc Thanh - Mui Ne Joint Stock Company	Vietnam	Solar Power Plant Construction	E.P.C.	2018
Shin-Etsu Silicones (Thailand) Limited	Thailand	SEST EX-41 Project	E.P.C.	2017
Shin-Etsu Engineering Co., Ltd	Thailand	Basic Engineering for A Project	E.P.C.	2017
Thai MMA Co., Ltd.	Thailand	Butyl Methacrylate #2 & Methacrylic Acid#2 Project	E.P.C.	2017
PTT Global Chemical Public Co., Ltd.	Thailand	LLDPE Expansion and Hexene-1 Project	E.P.C.	2015
Rayong Olefins Co., Ltd.	Thailand	ROC Debottlenecking Project / Capacity Expansion of Ethylene Plant	E.P.C.	2015
Qatar Electricity & Water Company	Qatar	Ras Abu Fontas A3 Desalination Project	E.P.C.	2015
Viet-Lao Chemical and Rock Salt Co., Ltd.	Laos	Rock Salt Exploitation and Processing Plant Construction	E.P.C.	2015
Toyo Engineering Corporation	Malaysia	Utility for SCC RAPID Project / Utility for Steam Cracker Complex	E.P.C.	2014





## CONTACT US



# Get in Touch

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# TTCL



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