

With our competencies and strengths of 5 companies under BE Petrothai Group, we commit ourselves to be Adaptive Innovation Partner to meet all customers and stakeholders' needs in the changing world with stability and sustainability.



Adaptive

Adapt to the changing world

Innovation

Innovate and challenge with customer's requirement

Partner

Partner throughout the equipment life cycle





HEADQUARTER BANGKOK

FIVE Partners

ONE Solution

 Operation Business Unit  Support Business Unit

PETROTHAI

1981 | Marketing

Marketing Consultant and Corporate branding

Expertise in Thailand petroleum and petrochemical market.
Provide our world-class partners with the best fit marketplace.



1997 | Engineering Management

Maintenance and engineering professionals

Pre-Delivery Inspection (PDI) : Ensure equipment readiness before the handover to customers.
Engineering Service : Provide equipment inspection and maintenance throughout its life cycle and offer end-users training.
Warranty Service : Offer reliable service and maintenance for products within the warranty period.



2001 | Selling

Adaptive Innovation Partner. Fits all needs for engineering equipment management.

Provide engineering distribution and installation services with high quality and environmental-friendly engineering equipment for petroleum and petrochemical industries. Offer optimal management processes to ensure the customers' production will run smoothly and deliver products on schedule. Design and develop new business solution by collaborating with partners to serve customer's various needs.



2001 | Knowledge Management

Innovation beyond knowledge

Gather knowledge about engineering, maintenance, data system, distribution, accounting, and other resource management.
Technology service, adjust workflows to support communication with worldwide customers and partners.



1987 | Resources Management

Caring for communities' resources

Business compliance, risk management, resource management and employee caring as well as workplace preparation to support our people to work flexibly and efficiently.

RAYONG WORKSHOP



BE PETROTHAI

Adaptive Innovation Partner



พันธมิตรนวัตกรรม เพื่อธุรกิจพลังงานไทย

Market & Trusted Customer



Technology Partner



ONE STOP SOLUTION

Global
Technology
&
Local Strength

VISION

International Satisfaction
Standard for Valuable
customers, partners,
employees

The
First One
In Energy
Market

PROJECT MANAGEMENT

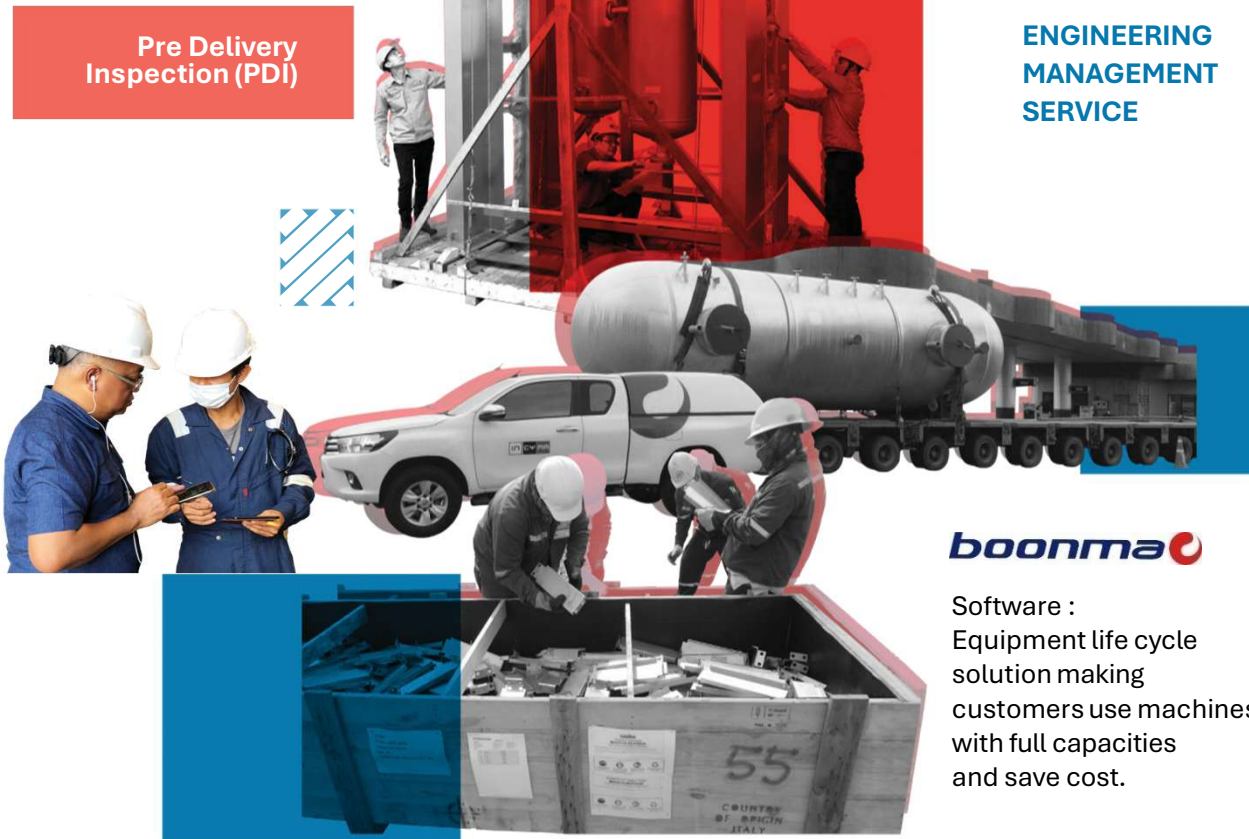
To get final specification and
reduce engineering time after
ordering

- Site survey
- Compare spec
- Technical Solution



Pre Delivery
Inspection (PDI)

ENGINEERING
MANAGEMENT
SERVICE



boonma

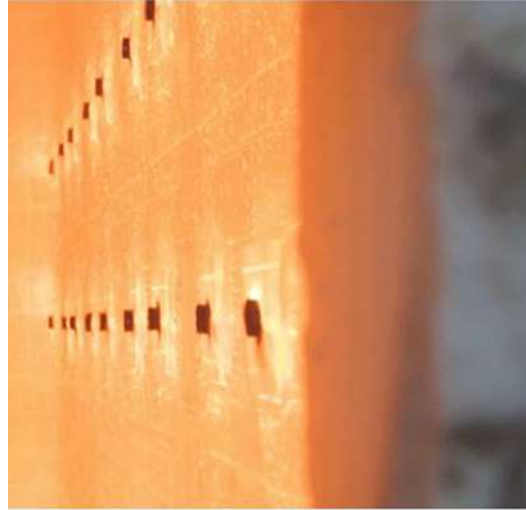
Software :
Equipment life cycle
solution making
customers use machines
with full capacities
and save cost.



ENERGY RECOVERY

Reuse: Waste Heat to Power

- Organic Rankine Cycle
- Waste Heat Recovery Unit



NEW ENERGY

Replace Hydrocarbon to H₂

Power Generation

- Hydrogen Gas Turbine

Combustion Process

- Hydrogen Burner

Production Plant

- Steam Methane Reforming



ENERGY SAVING

Reduce GHG

- XP Flare
- Mass Transfer Device Improvement
- Twisted Tube Heat Exchanger
- Radiant Coil SCOPE HT E



CARBON CAPTURE UTILIZATION & STORAGE

Reduce CO₂

- NET Power Technology
- CO₂ Gas Compressor
- CO₂ Liquid Pump





ENGINEERING MANAGEMENT SERVICES



FEASIBILITY STUDY

- Fact Finding
 - Assessment
 - Solution
-



DETAILED ENGINEERING

- Engineering Design
 - Process Design
-



PROJECT EXECUTION

- Resource Management
- Progressive Measurement
- Risk Management



FEASIBILITY STUDY

- Fact Finding
- Assessment
- Solution

Successful Projects



Gas Compression Study @ Gas Compression Station

Study gas compression operation in case of gas composition changed



Hydrogen Burner Assessment @ Olefin Plant

Assess the ability of burner for operation with hydrogen content 85%



Flare Study @ Refinery Plant

Study and evaluate flare system to achieve smokeless improvement



Flare Study @ Polypropylene Plant

Evaluating of the existing flare system against new flaring scenario



Flare Study @ Gas Separation Plant

Study and redesign the existing flare system to achieve smokeless improvement



Column optimization process @ Refinery Plant

Study and evaluate improvement process



DETAILED ENGINEERING

- Engineering Design
- Process Design

Successful Projects



Flare Modification Engineering @ Oleflex Plant

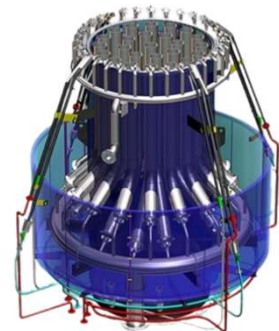
Engineering design of existing flare to meet new process design due to flare increase capacity



Flare Design @ Gas Separation Plant

Engineering design and CAPEX estimation of flare smokeless improvement

- Complete combustion with minimal emission
- Reduce noise and visible smoke





PROJECT EXECUTION

- Resource Management
- Progressive Measurement
- Risk Management

Successful Projects



Gas Compressor Relocation from Bangprakong to Ratchaburi @ Gas Compression Station

- Removal & Disassembly
- Inspection
- Refurbish & Improvement
- Installation
- Commissioning Support



Liquid Thermal Oxidizer @ Gas Separation Plant

- Site Preparation
- Procurement
- Installation & Commissioning
- Mechanical Test Run
- Quality Assurance



Control System upgrade @ Gas Compression Station

- Procurement
- Installation & Commissioning
- Mechanical Test Run
- Quality Assurance

Glocal Service in Commissioning service for Vapor Combustion System (VCS) @ Refinery Plant





PROJECT EXECUTION

- Resource Management
- Progressive Measurement
- Risk Management

Successful Projects



Maintenance :
Preventive Maintenance of Thermal Oxidizer (TO) @ Propylene plant



Improvement : **Glocal Service in technical assistance for Thermal Oxidizer (TO) @ Polymer Plant**

- Commissioning and start up



Improvement : **Glocal Service in technical assistance and site acceptance test for Enclosed Ground Flare (EGF) @ Polymer Plant**

Maintenance :
Preventive and Corrective Service for Organic Rankine Cycle (ORC) @ LNG Terminal



New Enclosed Ground Flare @ LNG Terminal

- Procurement
- Fabrication
- Commissioning support


GAS TURBINE

Equipment	Solution	Project name	Unit	Year
Gas Turbine	Equipment + Spare Part + Service	Maintenance : HSPT module exchange & Hot Section @ Gas Compression Station	1	2015
Gas Turbine	Spare Part + Service	Improvement : Replacement Turbine Mid Frame (TMF) @ Gas Compression Station	1	2019
Gas Turbine	Equipment + Spare Part + Service	Improvement : Refurbished Gas Turbine @ Gas Compression Station	1	2020
Gas Turbine	Equipment	Improvement : Upgrade Gas Turbine control system @ Gas Compression Station	3	2022

COMBUSTION

Equipment	Solution	Project name	Unit	Year
Burner	Spare Part + Service	Maintenance : Best Practices for Burner @ Olefins plant	1,360	2018
Burner	Spare Part	Maintenance : 2 year Sparepart for Burner @ Olefins Plant	900	2020
Burner	Equipment	Improvement : Burner replacement @ Refinery plant	514	2021
Burner	Equipment	Maintenance : Burner replacement for Turnaround @ Refinery plant	315	2021
Burner	Equipment + Service	Improvement : Installation & Commissioning new burner @ Refinery Plant	48	2021

VAPOR COMBUSTION UNIT

Equipment	Solution	Project name	Unit	Year
Vapor Combustion Unit	Spare part	Maintenance : Inventory MM Instrument part for VCU @ Aromatics Plant	1	2022
Vapor Combustion Unit	Spare part	Maintenance : Inventory MM in Blower tag for VCU @ Aromatics Plant	1	2022


FLARE SYSTEM

Equipment	Solution	Project name	Unit	Year
Flare	Equipment	Improvement : Flare Modification @Refinery plant	1	2021
Flare	Equipment	Maintenance : Flare Replacement @ Offshore platform	1	2023
EGF	Equipment	Improvement : Modification existing Enclosed Ground Flare @ Olefins plant	1	2021
EGF	Equipment	Expansion : New Enclosed Ground Flare @ Olefins plant	1	2021
EGF	Equipment	Improvement : New Enclosed Ground Flare @ LNG Terminal	1	2024
Elevated Flare	Equipment + Service	Improvement : Supervision Service in Modifying FFG panel's downstream FFG pipe for Low Pressure Elevated Flare @ Olefins plant	1	2022
Elevated Flare - AMFFG Ignition Panel	Equipment + Service	Maintenance : Inspection Service & Witness of ignition control system installation & start-up @ Propylene Plant	1	2023

HEAT EXCHANGER

Equipment	Solution	Project name	Unit	Year
Heat Exchanger	Equipment	Maintenance : Complete Hairpin Heat Exchanger @ Gas Compression Station	2	2015
Heat Exchanger	Spare Part	Improvement : Heat duty for Heat existing shell and tube @ Gas Separation Plant	4	2016
Heat Exchanger	Spare Part	Improvement : Twisted Tube Bundle @ Aromatics Plant	2	2016
Heat Exchanger	Equipment	Improvement : Tube Bundle for Hairpin Heat Exchanger @ Refinery Plant	4	2018
Heat Exchanger	Equipment	Improvement : Heat Exchanger material upgrade @ Aromatics plant	2	2021


MASS TRANSFER

Equipment	Solution	Project name	Unit	Year
Column	Spare Part + Service	Improvement : Column (Paraxylene Product Maximization) @ Aromatics Plant	3	2018
Column	Spare Part	Improvement: Column @Refinery plant	5	2018
Mist eliminator	Equipment +Service	Maintenance : FSE for demister installation @Olefin Plant	1	2022
Column	Equipment	Expansion: Column Internal for new column @PTA plant	4	2022
Column	Spare Part	Maintenance: Urgent Supply of Random Packing @Intermediate Petrochem	2	2022
Column	Spare Part	Improvement: 50 floors of Column @Phenol plant	1	2023

Organic Rankine Cycle (ORC)

Equipment	Solution	Project name	Unit	Year
ORC	Spare Part	Maintenance : Refurbish ORC Turbine Machine @ LNG terminal	1	2022
ORC	Spare parts + Service	Maintenance : Best practice- ORC / Lube oil pump @ LNG terminal (Field service)	1	2023
ORC	Spare Parts	Maintenance : 2 years inventory MM - ORC system @ LNG Terminal	1	2024
ORC	Service	Maintenance : Preventive and Corrective Service @ LNG Terminal	1	2024

CONTROL VALVE

Equipment	Solution	Project name	Unit	Year
Control Valve	Spare Part + Service	Maintenance : Turnaround Maintenance 2015 @ Gas Separation Plant	178	2015
Control Valve	Equipment+ Inventory MM	Expansion : Long term contract supply @Offshore Platform	800++	2015-2026

FILTRATION

Equipment	Solution	Project name	Unit	Year
Element & Filter	Equipment + Service	Improvement : Fuel Gas treatment skid @ Gas Separation Plant	3	2007
Element & Filter	Equipment	Maintenance : Long term contract supply @Offshore Platform	1000++	2019-2021

BE PETROTHAI GROUP

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