



**COMPANY PRESENTATION**

# **PTSC OFFSHORE SERVICES (POS)**





**01**

ABOUT US

**02**

OFFSHORE  
CONSTRUCTION

**03**

ONSHORE  
CONSTRUCTION

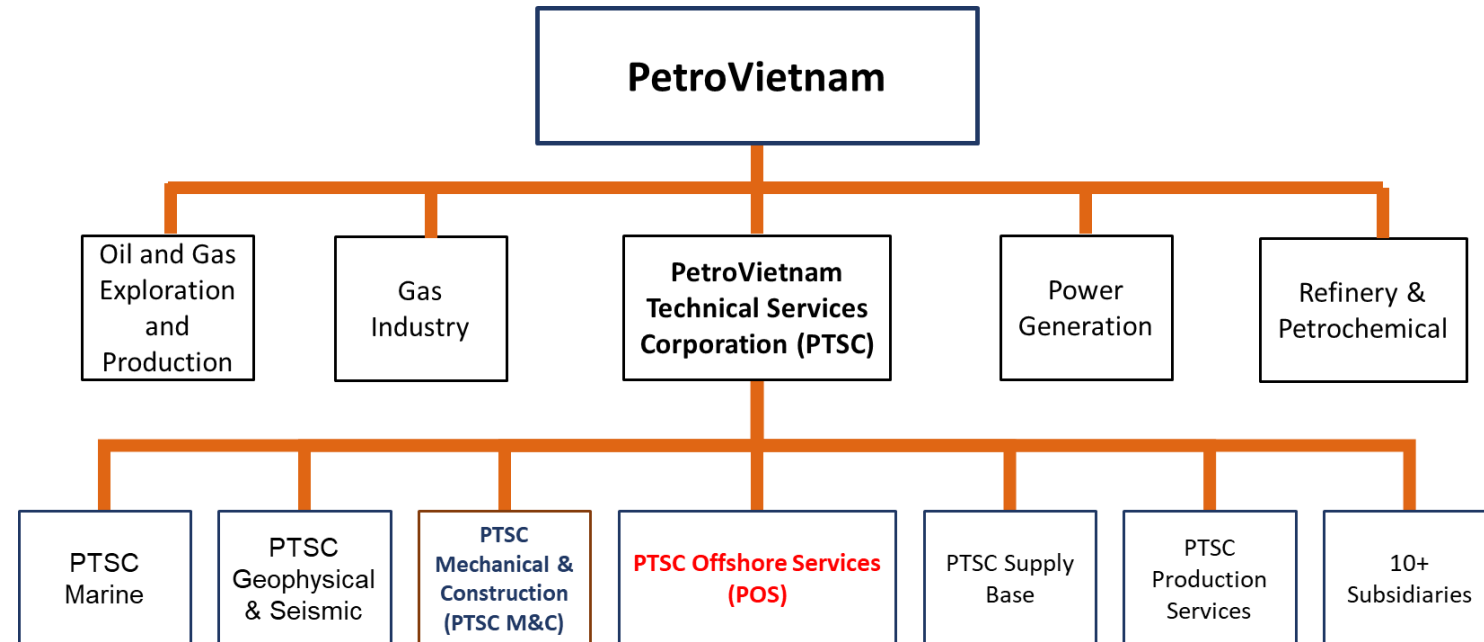
**04**

OPERATION &  
MAINTENANCE



## ABOUT US - POS

- ❖ PTSC Offshore Services (**POS**) is a subsidiary of PetroVietnam Technical Services Corporation (**PTSC** Corporation), who in turn is a member of Vietnam Oil and Gas Group (PetroVietnam).
- ❖ Inside PTSC Corporation there are more than 20 **independent** subsidiaries, of which PTSC M&C (**PMC**) is well known to the market as an EPC contractor and PTSC **POS** is well known to the market as a HUC & Brownfield Modification contractor, amongst other services.
- ❖ Established in 2007, PTSC POS premise is located within a regionally modern and well-equipped complex in Vung Tau city (the Oil and Gas hub of Vietnam).
- ❖ QHSE Management system certified by reputed organization (BSI), Quality Management system (ISO 9001-2008), Environmental Management system (ISO 14001-2004) and Occupational Health and Safety (ISO 45001)



### Skilled and experienced workforce



- ❖ Under POS payroll there are approximately 550 permanent staff, in which:
  - ✓ 150 engineers
  - ✓ 300 skilled workforce
  - ✓ 100 functional staff to support projects and company operation
- ❖ For big HUC & Brownfield projects, POS can quickly ramp up its workforce to 1,500 pax or more for working simultaneously at various locations.

# OUR FACILITIES & RESOURCES

## Workshop

❖ **The workshop of 11,462m<sup>2</sup> includes:**

- ✓ 01 Valve mechanical workshop
- ✓ 01 E&I/Pump workshop
- ✓ 01 Structure & piping workshop
- ✓ 01 O&M Office building

❖ **02 additional fabrication and painting workshops of 4,500m<sup>2</sup>**

## Well Equipped Workshop



## O&M Office Building



## Large Yard



## E&I Workshop





## OUR FACILITIES & RESOURCES

### 300 Pax Accommodation Crane Work Barge - PTSC Offshore 1

#### Barge Specification:

- Built: 2009
- Flag: Vietnam
- Classed by: DNV
- Clear Deck: 1,800 m<sup>2</sup>
- Deck strength: 12mt/m<sup>2</sup>
- Deck Crane : 1 x 300mt HUISMAN
- Accommodation: 300 berth

#### Barge's qualification:

- Passed Safety Case of Brunei EDPMO
- Qualified by **TOTAL** E&P Borneo BV
- Certified by OVID



### 5,000 Ton Flat Top Barge - PTSC 01

#### Principal Dimension:

- Length (overall): 90,0m
- Breadth: 34,6m
- Depth: 5,5m
- Draught: 4,0m
- Displacement: 11.585t
- Dead weight: 9.515t
- Gross tonnage: 4.424t
- Net tonnage: 1.327t





**01**

ABOUT US

**02**

OFFSHORE  
CONSTRUCTION

**03**

ONSHORE  
CONSTRUCTION

**04**

OPERATION &  
MAINTENANCE

# OFFSHORE CONSTRUCTION

## **I HUC and BROWNFIELD MODIFICATION / INTEGRATION**

**I.a** Major Brownfield / Integration Projects

**I.b** HUC and Minor Brownfield Projects

## **II TRANSPORTATION AND INSTALLATION**

## **III OFFSHORE DECOMMISSIONING**



### **I HUC and BROWNFIELD MODIFICATION / INTEGRATION**

#### **I.a Major Brownfield / Integration Projects**

**Client:** PTSC M&C / North Oil Company (NOC)

**Contract Mode:** POS as a subcontractor through the EPC contractor PTSC M&C to ultimately serve NOC.

**Contract Value:** ~ **35.000.000 USD**

**Total Mhrs:** ~ **1,300,000** Mhrs, non-LTI. **850 Pax** mobilized during Covid-19; 3 Jack-up Barges for 3 locations.

**Location:** Offshore Qatar, Al Shaheen Oil Field

**Project SOW:**

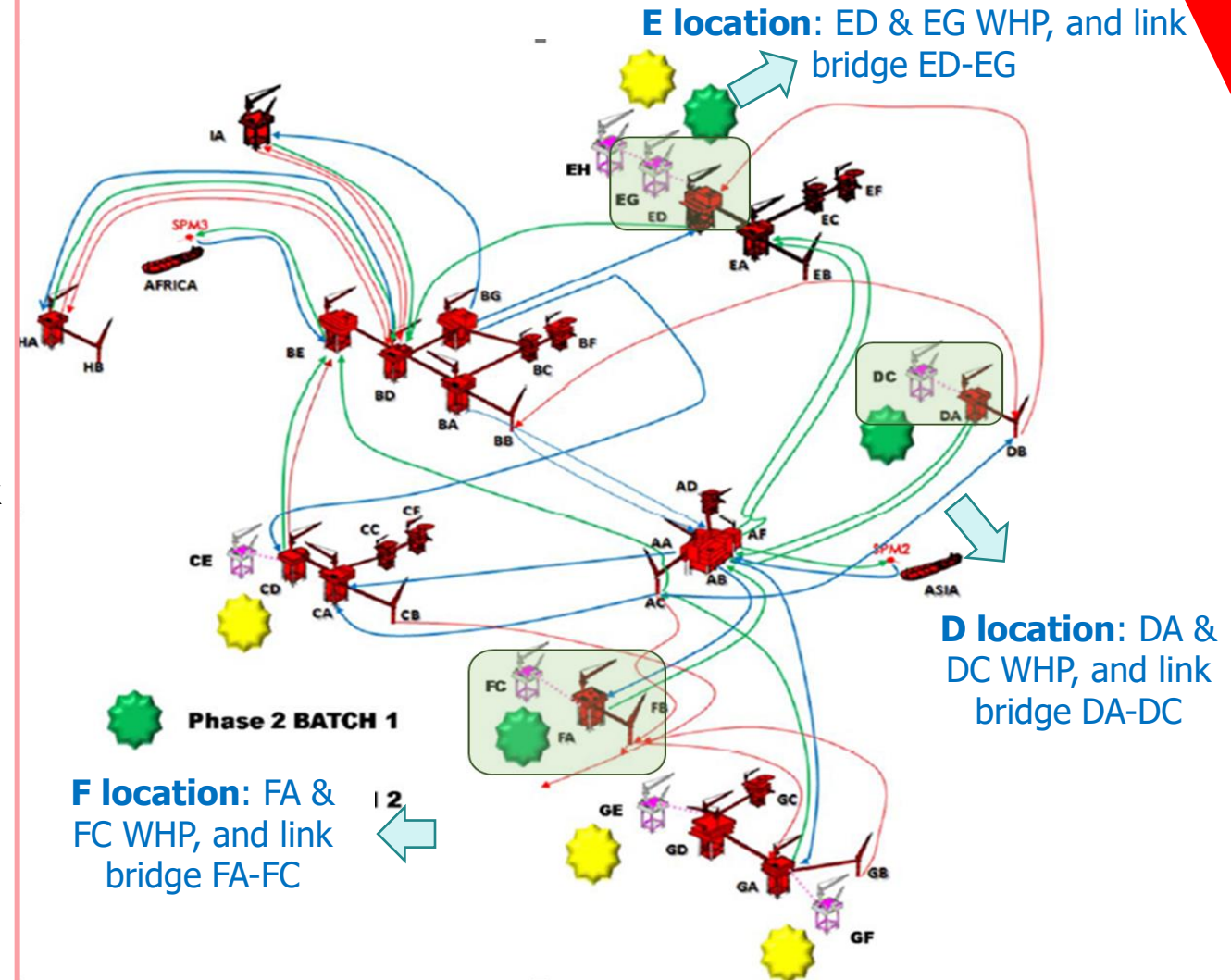
POS performing full EPCI scope for HUC & Integration Work for 3 locations including 6 WHPs and 3 link bridges

**Construction:**

- Lifting & scaffolding works.
- Structural Steel works
- Insulation and coating works
- Piping works
- Equipment Erection works
- HVAC and Architectural works in Buildings
- Electrical works
- Instrumentation works + Telecom

**Pre-com/Com:**

- Pre-Commissioning/Commissioning



**Client:** DSME / North Oil Company (NOC)

**Contract Mode:** POS as a subcontractor through the EPC contractor DSME to ultimately serve NOC.

**Contract Value (Estimated):** ~ **48.000.000 USD**

**Total Mhrs:** ~ assumed **1,250,000 Mhrs.**

**Location:** Offshore Qatar, Al Shaheen Oil Field

### Project SOW:

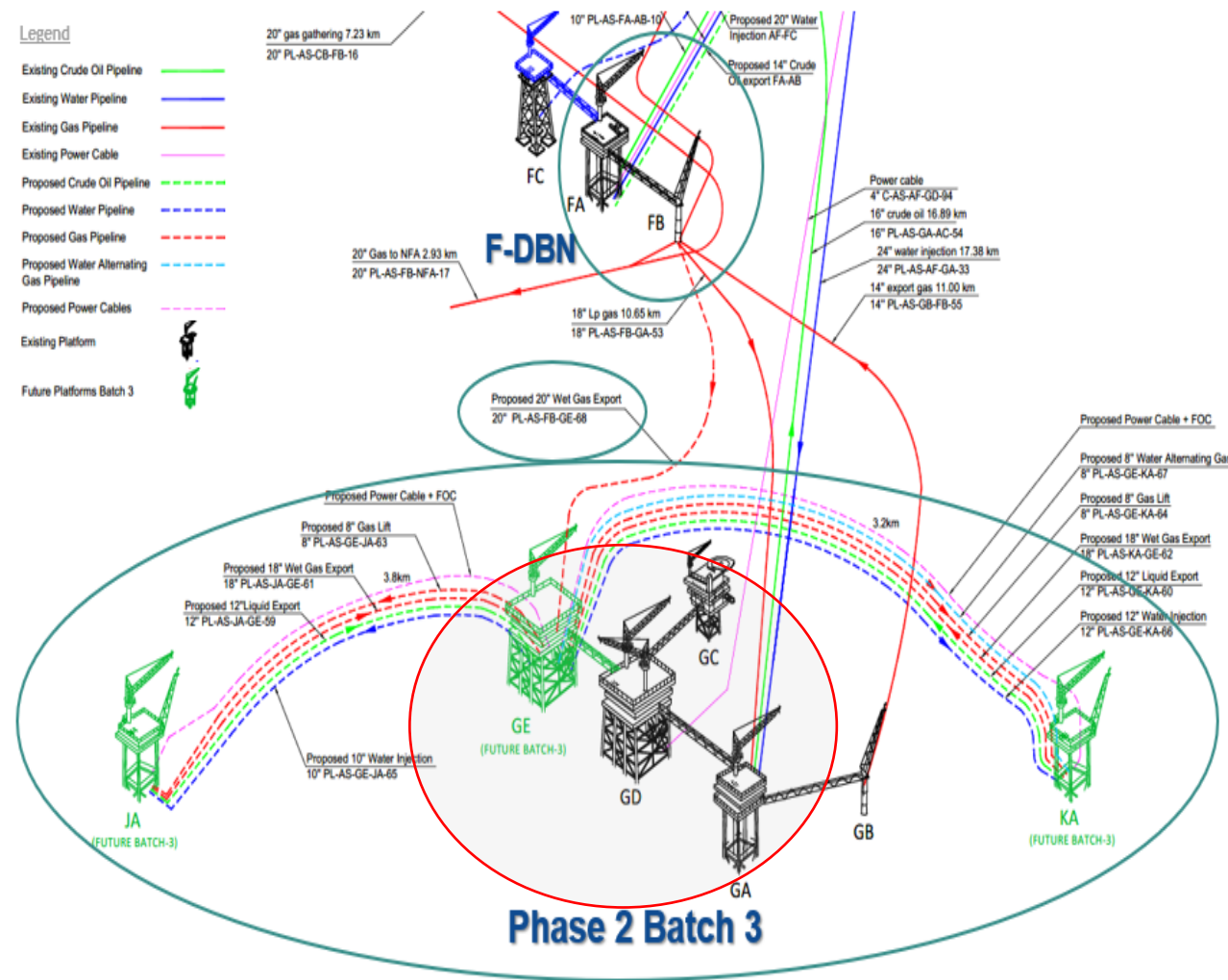
POS performing full EPCI scope of new CPP GE to existing G location (modifications on GA, GE, GD)

### Construction:

- Lifting & scaffolding works.
- Structural Steel works
- Insulation and coating works
- Piping works
- Equipment Erection works
- HVAC and Architectural works in Buildings
- Electrical works
- Instrumentation works + Telecom

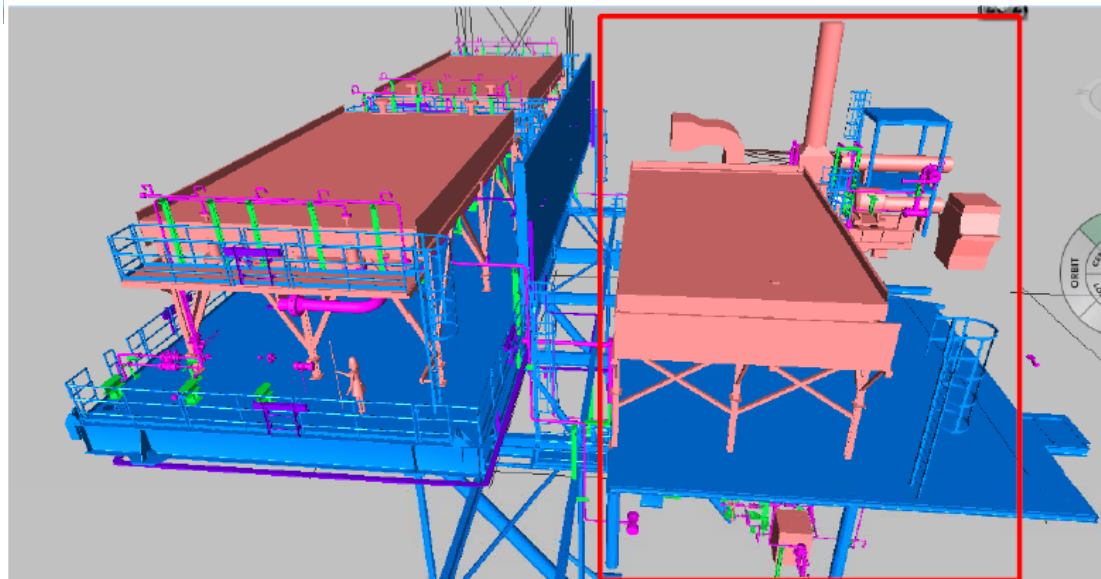
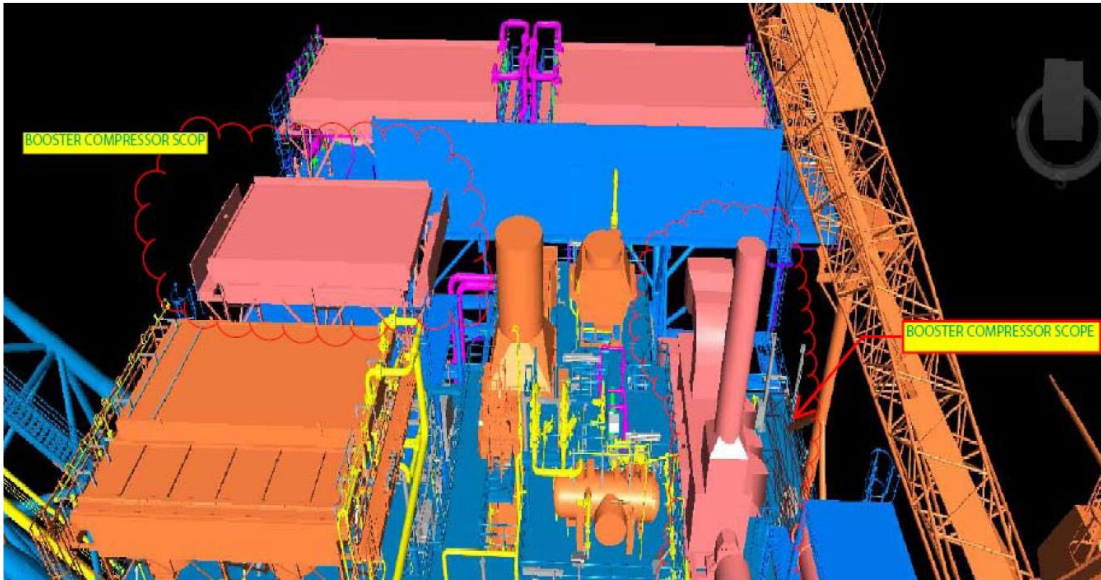
### Pre-com/Com:

- Pre-Commissioning/Commissioning





## BOOSTER COMPRESSOR: **EPCI** HUC & MODIFICATION (2010 – 2012)



**Client:** KNOC (Korea National Oil Corporation)

**Contract Mode:** POS signing contract **directly** with KNOC

**Contract Value:** ~ **45.000.000 USD**

**Total Mhrs:** ~ **450,000 Mhrs.**

**Location:** Offshore Vietnam

### **Project SOW:**

POS performing full **EPCI scope** for upgrading of the Rong Doi CPP, including:

- 1 Train, 1 Stage (1 Turbine+1 Compressor), Discharge cooler, Scrubber Drum.
- Booster Compressor **Module: 400 MT**
- Discharge Cooler **Module: 110MT**
- Scrubber Unit
- Suction Cooler unit
- Structure/Piping & E&I site modification

## RUBY-B GAS LIFT: **EPCI** HUC & MODIFICATION (2011 – 2013)

**Client:** PCVL (PETRONAS CARIGALI VIETNAM LIMITED)

**Contract Mode:** POS signing contract **directly** with PCVL

**Contract Value:** ~ **45.000.000 USD**

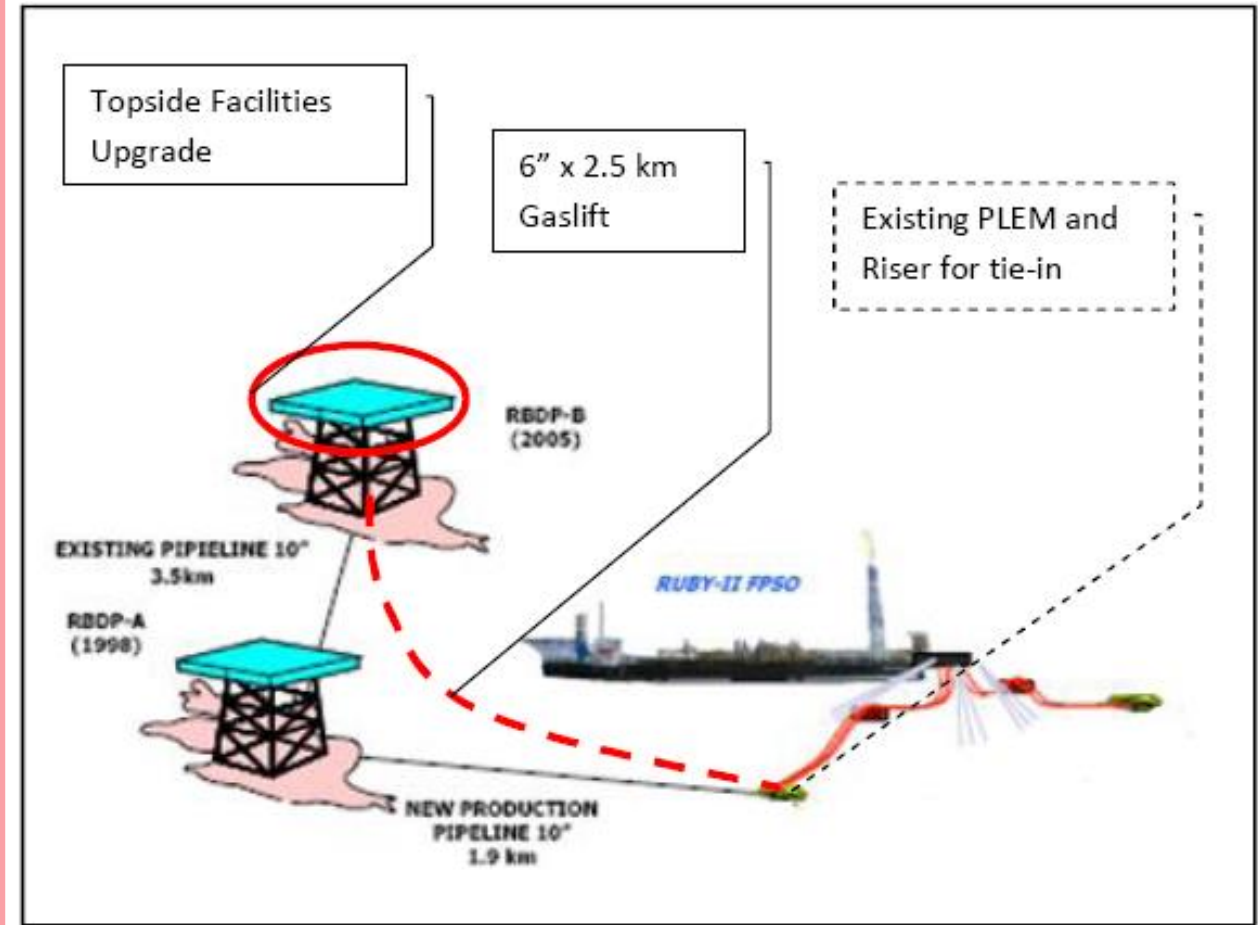
**Total Mhrs:** ~ **580,000 Mhrs.**

**Location:** Offshore Vietnam

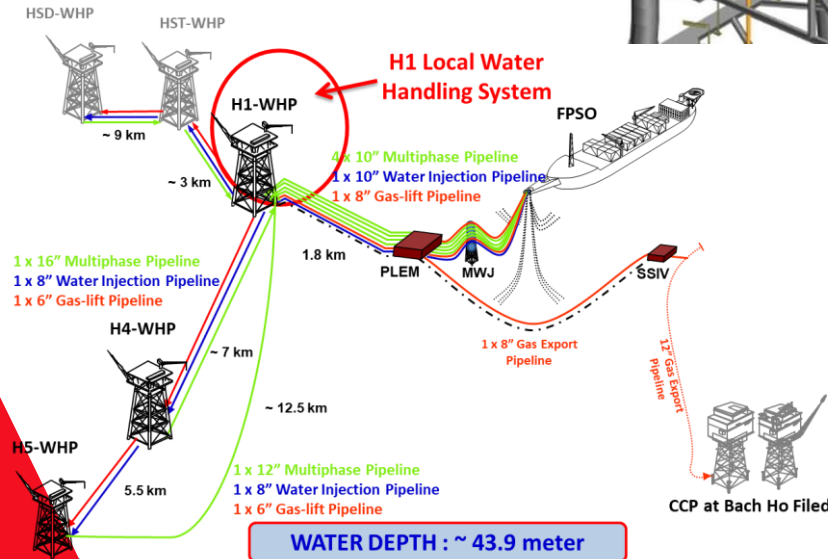
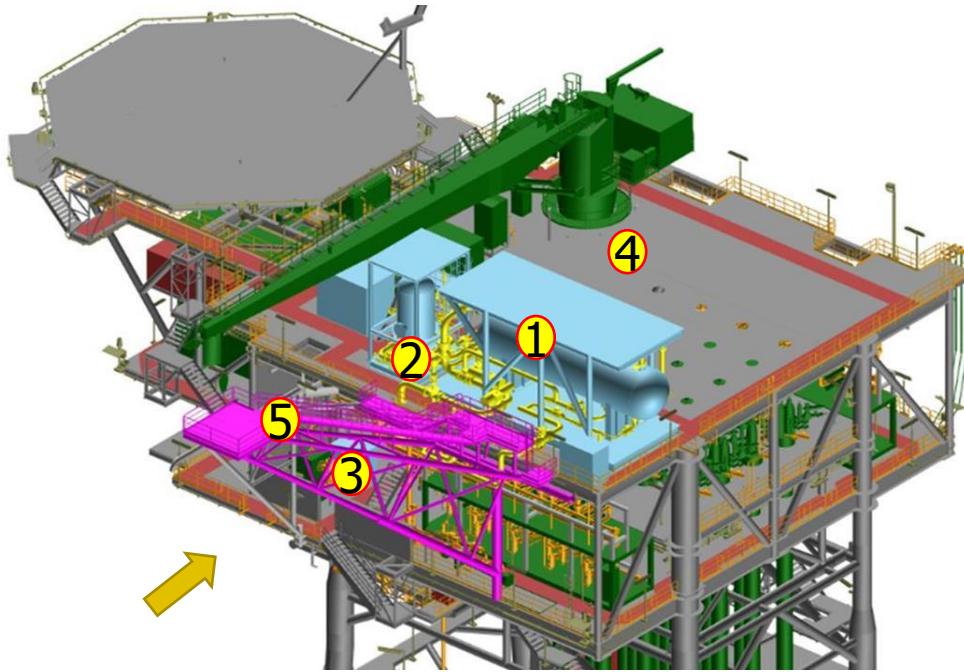
### **Project SOW:**

POS performing full **EPCI scope** for upgrading of the existing RUBY-B platform and install new pipeline, including:

- 6" rigid riser and a 6" x 2.5 km flexible pipeline.
- Removal of current Micro-Turbine Generators, Portable Diesel Generator, LP Separator, Air Compressor Unit and Utility Gas Scrubber. Relocation of Navigational Aids System (Nav-Aids).
- Installation of Gaslift Header, Gaslift Receiver, Gaslift Flowlines, Vapour Recovery Compressor, Gas Engine Generator, Portable Diesel Generator, Switchboard, LP Separator, Production Transfer Pumps, Utility Gas Heater and Sand Removal Package.
- Facilities tie-in for Gaslift pipelines and associated equipments.
- Structural, Electrical, Instrumentation, Piping and Safety Equipments modifications to support the facilities above.



# TGT-H1 Water Handling System: **EPCI** HUC & MODIFICATION (2016 – 2017)



**Client:** Hoang Long Joint Operating Company (HLJOC – a JV including SOCO and OPECO)

**Contract Mode:** POS signing contract **directly** with HLJOC

**Contract Value:** ~ **3.000.000 USD**

**Total Mhrs:** ~ **220,000 Mhrs.**

**Location:** Offshore Vietnam

## Project SOW:

POS performing full **EPCI scope** for modification of the existing TGT-H1 platform for integration of new Water Handling System, including:

No.	NEW SKID / ITEMS	DIMENSION (M)	WEIGHT (MT)
1.	DEGASSING PUMP SKID	4.650L x 2.600B x 2.544H	11
2.	DEGASSING VESSEL SKID	2.290L x 2.030B x 5.078H	7
3.	KNOCK-OUT DRUM SKID	4.202L x 2.250B x 2.705H	6
4.	3-PHASE SEPARATOR SKID	14.000L x 5.798B x 8.010H	<b>143</b>
5.	COMPACT FLOATING UNIT	4.809L x 3.809B x 7.300H	36
6.	FLARE BOOM	30.000L x 10.000B x 7.000H	32
7.	CAISSON	Section 1: 18.7 x 0.762 x 0.762 Section 2: 16.4 x 0.762 x 0.762 Section 3: 14.6 x 0.762 x 0.762	Section 1: 10 Section 2: 8 Section 3: 7



## E1 EXTENSION DECK MODULE : **EPCI** HUC & MODIFICATION (2018 – 2019)

**Client:** JVPC (JAPAN VIETNAM PETROLEUM CO.LTD)

**Contract Mode:** POS signing contract **directly** with JVPC

**Contract Value:** ~ **3.000.000 USD**

**Total Mhrs:** ~**136,000** Mhrs.

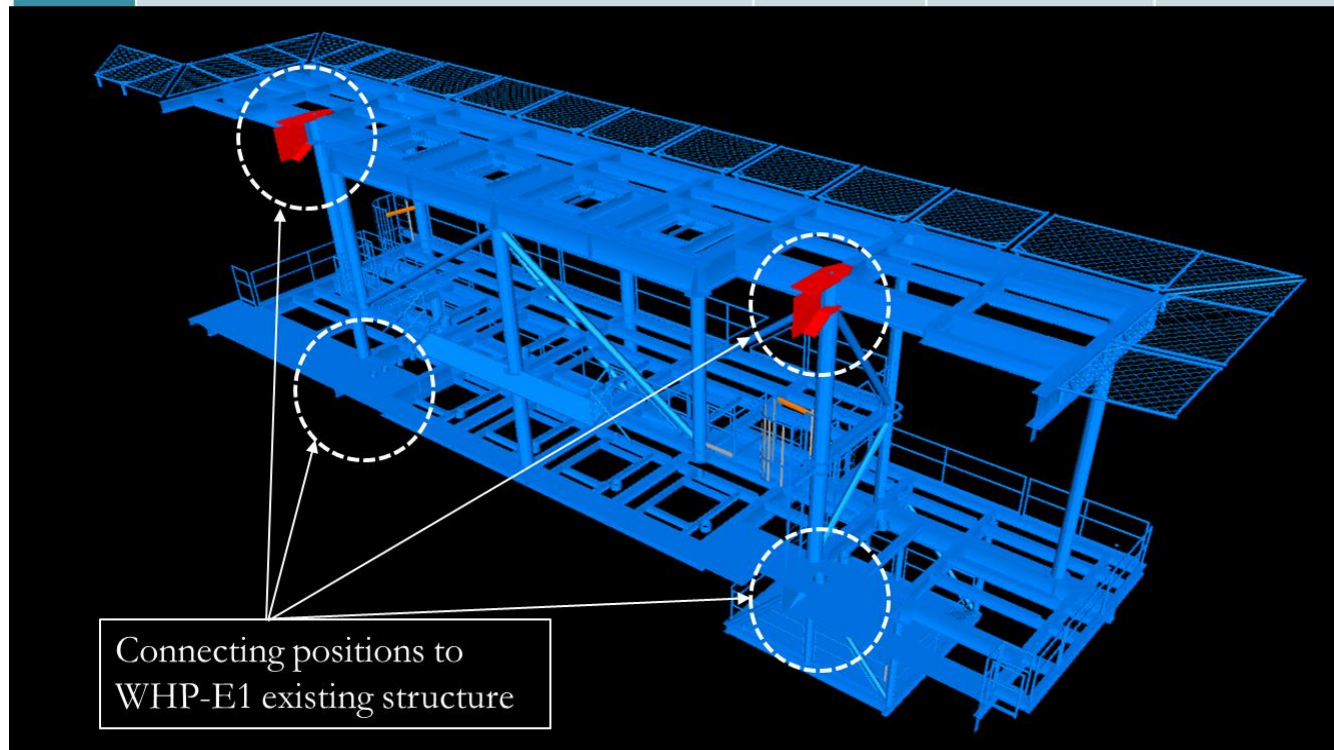
**Location:** Offshore Vietnam

### **Project SOW:**

POS performing full **EPCI scope** for modification of the existing E1 platform for integration of extension deck module, 03 x conductor guide frames, and conductor guides, including:

- Extension deck of 91-ton including piping and E&I for new wells
- Subcellar Deck Extension at level +16m
- 03 x conductor guide frames
- 01 x conductor guard
- Piping, E&I, Structure hook-up & commissioning from Extension module to existing system.

No.	Description	Q'ty	Dimension (m)	Weight (MT)
1	E1 Extension Module	1	3x20.5x10.5	91



# BADAMYAR: EPCI HUC & MODIFICATION (2015-2017)

**Client:** Hyundai Heavy Industries Co., LTD / TOTAL E&P Myanmar

**Contract Mode:** POS as a subcontractor through the EPC contractor HHI to ultimately serve TOTAL.

**Contract Value:** ~ 20.000.000 USD

**Total Mhrs:** ~ 850,000 Mhrs.

**Location:** Offshore Myanmar

## **Project SOW:**

### Piping

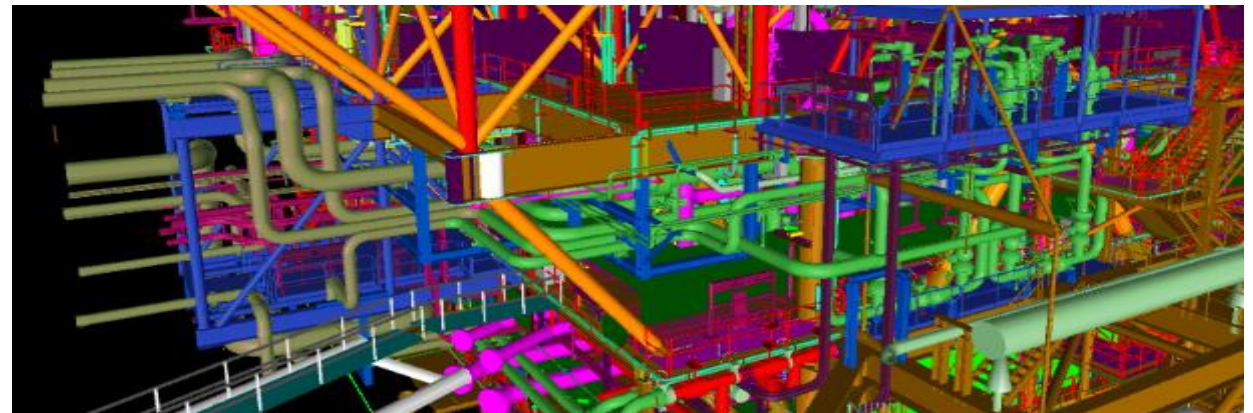
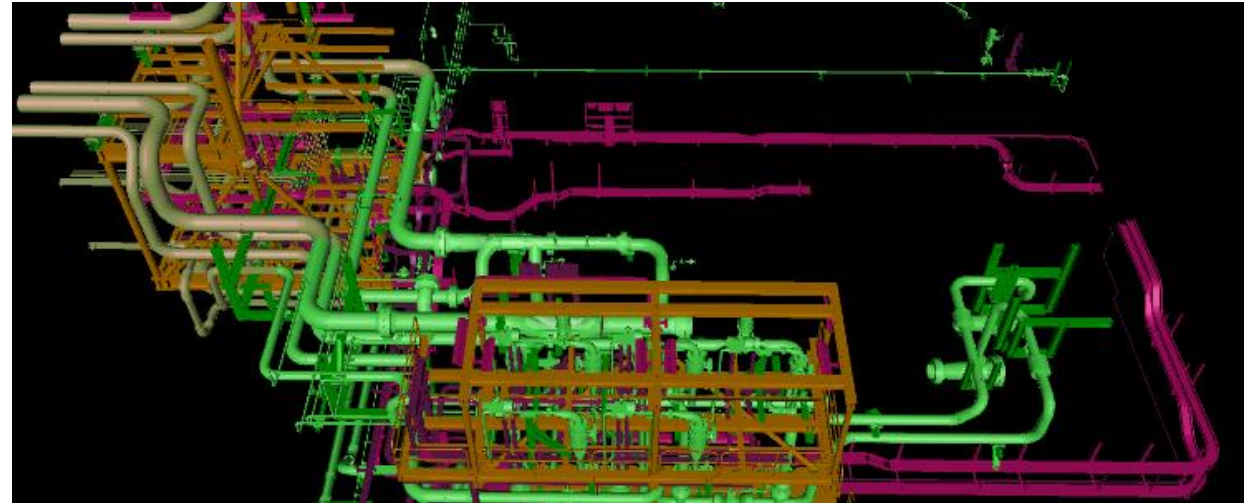
- 561 spools
- Off-shore weld: 2,033 inch diameter

### Structure

- Offshore welding: 70 tons, including bridge access extension-10 tons; deck extension-10 tons)
- 2,500 E&I support

### Mechanical

- Installation of sand removal package;
- Installation of coaleser package
- Installation of 02 oily water pumps
- Replacement of 02 condensate injection pumps



### **I** HUC and BROWNFIELD MODIFICATION / INTEGRATION

#### **I.b** HUC and Minor Brownfield Projects



## NASR PROJECT: HUC & MODIFICATION (2017-2019)

**Client:** Hyundai Heavy Industries Co., LTD/ ADMA

**Contract Mode:** POS as a subcontractor through the EPC contractor HHI to ultimately serve ADMA.

**Contract Value:** ~ **7.000.000 USD**

**Total Mhrs:** ~ **500,000** Mhrs. 250 pax mobilized

**Location:** Offshore U.A.E

**Project SOW:** Provision Of Offshore Manpower to HHI as a subcontractor (amongst many other subcontractors to HHI) and having been highly regarded by HHI for good productivity and performance over others.



# FMB HUC and CARRY-OVER WORK (2016-2017)

**Client:** Technip FMC / Qatar Petroleum (QP)

**Contract Mode:** POS as a subcontractor through the EPC contractor Technip FMC to ultimately serve QP.

**Contract Value:** ~ 7.000.000 USD

**Total Mhrs:** ~ 250,000 Mhrs, 300 pax mobilized

**Location:** Offshore Qatar

## **Project SOW:**

### Construction

- Scaffolding
- Structural Steel Works
- Insulation Works
- Piping Works
- Painting Works
- Equipment Erection Works
- HVAC and Architectural Works in Buildings
- Electrical Works
- Instrumentation Works + Telecom

### Pre-com/Com

- Pre-Commissioning
- Commissioning



# ZAWTIKA 1A HUC & CARRY-OVER WORK (2013-2014)

**Client:** PTTEP Thailand

**Contract Mode:** POS signing contract **directly** with PTTEP Thailand

**Contract Value:** ~ 9.000.000 USD

**Total Mhrs:** ~ 100,000 Mhrs

**Location:** Offshore Myanmar

**Project SOW:**

- Carry-over work for 3 well-head platforms
- Flange Management and Leak test
- Survey and procure permanent materials to close Piping, E&I punch list
- Located offshore Myanmar, logistics base at Ranong, Thailand
- Remote working, stay on POS's Accommodation Barge, daily transportation by Crew Boat
- SIMOPS with Rig





# MAHARAJA LELA SOUTH HUC & MODIFICATION (2014-2015)

**Client:** PTSC M&C / TOTAL E&P Borneo BV

**Contract Mode:** POS as a subcontractor through the EPC contractor PTSC M&C to ultimately serve TOTAL

**Contract Value:** ~ **11.000.000 USD**

**Total Mhrs:** ~ **105,000 Mhrs.**

**Location:** Offshore Brunei

**Project SOW:**

- Onshore fabrication of permanent pipeline, structure, installation aid for T&I operation
- Onshore commissioning with SPIE, utilizing ICAPS Software following UPERCOM Methodology.
- Offshore hook-up and commissioning for MLJ3 Platform.
- Offshore brownfield modification for MLJ1 and MLJ2.
- Provision of POS's Accommodation Barge (our own Barge POS-1), fast crew boat, first AHT, second AHT cum supply vessel



**Client:** North Oil Company (NOC)

**Contract Mode:** POS signing contract **directly** with North Oil Company (NOC).

**Location:** Qatar

**Project SOW:** Provision of supervisors and engineers from POS directly to NOC as an integral part of NOC's team for managing the EPCI Contractor, including below disciplines:

- Electrical and Instrument
- Structure and Piping
- Pre-Commissioning





- ❖ STT FFD PHASE 1 HUC & MODIFICATION (2015 – 2016)
- ❖ SAO VANG CPP HUC & MODIFICATION (2019 – 2020)

**Client:** Cuu Long JOC (ConocoPhillips) / PTSC M&C

**Work Location:** Offshore Viet Nam

**Project SOW:**

Construction

- Lifting & scaffolding works.
- Structural Steel Works
- Insulation and coating Works
- Piping Works
- Equipment Erection Works
- HVAC and Architectural Works in Buildings
- Electrical Works
- Instrumentation Works + Telecom

Pre-com/Com

- Pre-Commissioning
- Commissioning

**Manpower:**

- HUC STT FFD Phase 1: **166,000** man-hours with 455 pax for 03 locations at the same time.
- HUC SV-CPP: **110,000** man-hours with 250 pax for main HUC campaign (CPP Jacket: 17.000 MT & CPP Topsides: 10.000 MT)





## **II TRANSPORTATION AND INSTALLATION**

## TRANSPORTATION AND INSTALLATION PROJECTS

### Typical T&I Projects that POS has carried out:

**1. Client:** Idemitsu Gas Production Vietnam

**Project:** Transportation and Installation of Sao Vang CPP

**Location:** Offshore Viet Nam

**Project SOW:** T&I for SV-CPP Jacket, Piles, Wellhead Service Deck and SV-CPP Topside including:

- SV-CPP Jacket : 17,000 MT
- SV-CPP Platform: 10,000 MT

**2. Client:** Cuu Long JOC

**Project:** T&I for Su Tu Trang Full-field Development

**Location:** Offshore Viet Nam

**Project SOW:** T&I for the following offshore facilities:

- LQ Jacket, Pile & Topside
- CPP Topside (2 Modules)
- Linked Bridges

**3. Client:** Bien Dong POC

**Project:** T&I for Hai Thach PQ, Hai Thach WHP & Moc Tinh WHP

**Location:** Offshore Viet Nam

**Project SOW:** T&I for the following offshore facilities:

- 1 Jacket (11,000 MT) + 1 Jacket (16,500 MT)
- 01 Topside (3,000MT) + 1 Topside (14,000 MT)



**III OFFSHORE DECOMMISSIONING**



# OFFSHORE PIPELINE DECOMMISSIONING

10/2021 – 7/2022

**Client:** Chevron Thailand

**Contract Mode:** POS signing contract **directly** with Chevron Thailand

**Total Mhrs:** ~ **500,000** Mhrs

**Location:** Offshore Thailand

## Project SOW:

- Workpack 01: Disconnection and removal of 60 tie-in spools
- Workpack 02: Disconnection and removal of Tantawan PLEM.
- Workpack 04: Installation of Tie-in Spool for Phase 59





**01**

ABOUT US

**02**

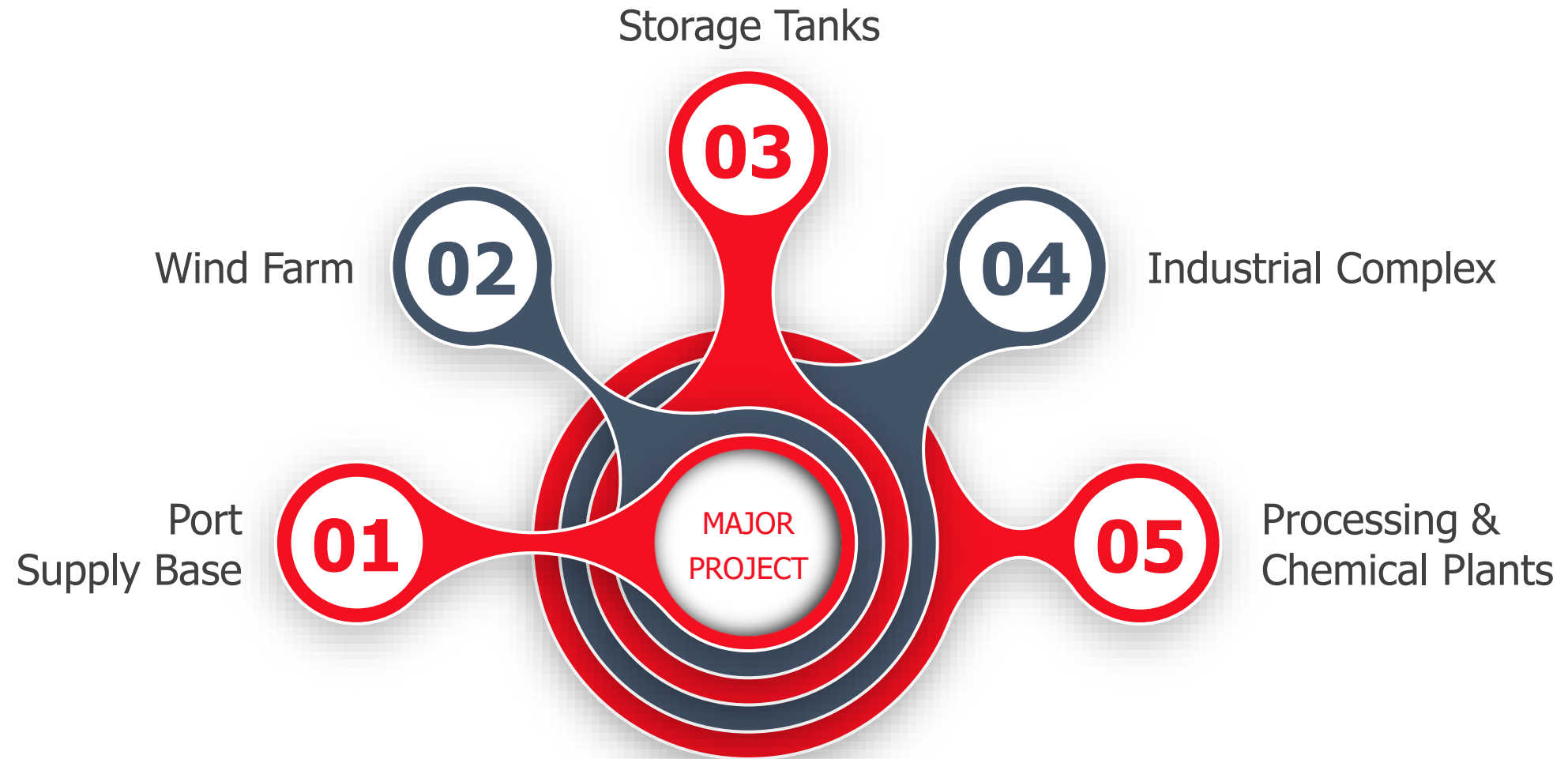
OFFSHORE  
CONSTRUCTION

**03**

ONSHORE  
CONSTRUCTION

**04**

OPERATION &  
MAINTENANCE





**Client: TPSK**

**Work Location: Long Son, Vung Tau city**

**Project SOW:**

- Civil works
- PC Piperack
- Steel structure erection
- Piping work fabrication and erection
- Common scaffolding erection works
- Insulation works
- Equipment Installation:
- Pre-commissioning



**Client: Hyosung Vina Chemicals/ Etec**

**Work location: Cai Mep, Vung Tau City**

**Project SOW:**

- Piping fabrication & erection~ 160,000 DI, Duplex, SS, CS
- Equipment Installation: ~ 3000MT static & rotating equipment
- Pre-com & Commissioning





**Client: PetroVietnam Gas (PVGas)**

**Work location: Long Dien District, Ba Ria Vung Tau Province**

**Project SOW:**

- Installation of Rectifier C-05B
- Installation of Heat Exchanger E-14B
- Construction, Installation of Technonoly System, Electrical system, Lighting system and other support system.
- Hook-up and Commissioning between new and existing system including piping, valve system
- Installation of DCS, SSD, F&G





## STRUCTURES & SPOOLS PRE-METROLOGY FABRICATION for GREAT WESTERN FLANK 2 PROJECT (2017)

- **Project:** Structures and spools for Great Western Flank 2 Project (GWF2) - 2018
- **Client:** Subsea 7 Australia / Woodside
- **Scope of work:** Fabrication of Structures and Inconel 625 clad spool kits
- **Total Weight:** 1200 MT



## FABRICATION OF SUBSEA STRUCTURE FOR PHONG LAN DAI FIELD DEVELOPMENT (PLD Project) (2018)

- **Project:** Fabrication of Subsea Structures for PLD Project
- **Client:** Subsea 7 Australia / Rosneft Vietnam
- **Scope of work:** Fabrication of PLEMs, PLETs, Tie in spools
- **Total Weight:** 500 MT



- **Project:** ePC for Inlet and Outlet Duct System
- **Client:** Innovative Steam Technologies /Siemens
- **Scope of work:** Fabrication of Inlet and Outlet Ducting System
- **Total Weight:** 800 MT







PTSC OFFSHORE  
SERVICES  
JOINT STOCK COMPANY

# Contents

**01**

ABOUT US

**02**

OFFSHORE  
CONSTRUCTION

**03**

ONSHORE  
CONSTRUCTION

**04**

OPERATION &  
MAINTENANCE

## OPERATION AND MAINTENANCE

Currently, PTSC Offshore Services (POS) has long-term contracts to provide Operation and Maintenance (O&M) services for almost of the big Oil and Gas Exploration and Production (E&P) Companies in Vietnam, including:

Client	Service	Location
Cuu Long JOC	Long-Term Manpower Services For CPP & Thai Binh VN	Thai Binh VN FPSO
KNOC	Operation & Maintenance Service for KNOC	Rang Dong Oil Field
JVPC	Long-term Operation & Maintenance Service for KNOC	CPC Platform
PCVL	Provision of supplying Wellhead Operators for PCVL	Ruby A & Ruby B platform





## OFFSHORE MAINTENANCE PROJECTS

**1. Client:** Bien Dong POC

**Project:** Turnaround 2021- Pressure Vessel Internal cleaning & Inspection

**Work location:** Offshore Viet Nam

**Project SOW:**

- Fabricate thin spades
- Scaffolding and Insulation for NDT, breaking joints
- Flushing & cleaning for vessel entry
- Reinstate the breaking joints and manholes
- Support production for leak test

**2. Client:** Binh Son Refining and Petrochemical

**Project:** Maintenance of Single Point Mooring (SPM) of Binh Son Refinery

**Work location:** Binh Son Refinery

**Project SOW:**

Covers all routine activities that are essential to maintain an uninterrupted operation of the SPM Package & Subsea Crude Pipelines, all performed by POS's resident team at work site at the Refinery.





## MAJOR CLIENTS

				
				
 Korea National Oil Corporation				
				



PTSC OFFSHORE  
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**THANK YOU VERY MUCH  
FOR YOUR KIND ATTENTION**