

**PTSC**

A member of PETROVIETNAM

**COMPREHENSIVE SOLUTIONS, DRIVEN BY TRUST**





*COMPREHENSIVE SOLUTIONS,  
**DRIVEN BY TRUST***



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# Chapter 01

## MESSAGE FROM CEO





**Mr. Le Manh Cuong**  
*Member of the Board of Directors  
 President & CEO*

“

“...With the solid foundation and the tradition of more than 50 years, going through more than 50 years of establishment, merger, equitization and transformation, PTSC has gradually developed, enhanced its position and become a leading corporation in Vietnam - a big name in the sector of technical services for oil & gas industry and other industries in the region. Since establishment in 1993, PTSC has always been full of strong energy, vitality with will, aspiration, determination to overcome all difficulties.

From a company that only provides internal services with 100% of revenue from oil and gas activities in Vietnam, up to now, PTSC has expanded its core services and conquered the international market with more than 70% of the revenue structure from annual foreign revenue accounting. PTSC's core businesses are to provide technical services for oil & gas, energy and industrial sectors in which the strategic core services have been professionalized up to international standard, such as: EPCIC for offshore facilities; EPC for industrial

plants; FSO/FP50; Offshore supply vessels; Geological and subsea surveys; Installation, operation and maintenance of offshore facilities; Port & Supply Base and Technical manpower supply.

Regarding the trend of energy transition, in order to maximize the value of the service supply chain, PTSC is promoting and focusing on development and provision of similar supply chain to the renewable energy sector, especially offshore renewable energy. PTSC has now completed the preparation stages and been ready to undertake and ensure the success of offshore renewable projects, meeting the highest requirements of the client...

With the resources, facilities, professional and creative labor force, successfully and high-quality implementation of several offshore projects, PTSC is committed to promoting all strengths of capacity and experience, ensuring the success of projects, affirming and strengthening its position as a trustworthy contractor, a trustworthy partner, a trustworthy business with clients...”

”



# CORE VALUE

## Vision

Developing PTSC to be a reputable international brand - a leading total services provider in the energy sector with a focus on oil and gas industry and offshore renewable energy.

## Mission

Increasing interests and trust of shareholders, clients, partners and employees, contributing to the growth and social development of the community as well as the protection of the environment.

## Professional

Professionalism is the key criterion determining the success of PTSC.

## Trustworthy

The trust of shareholders, clients, partners and employees creates strength and increases competitive advantage for PTSC.

## Sustainable

With exceptional capabilities built through more than 50 years of establishment and development, PTSC is confident in extending its services to the offshore renewable energy in order to develop green energy sources and create a sustainable community and environment.

## Creative

Constant innovation and creation are typical characteristics that make PTSC. With highly qualified human resources of international standards, PTSC is always ready to integrate, develop and expand new services to dominate the domestic and international markets.





Chapter

# 02

## PTSC CHAIN OF SERVICES



**PTSC**  
A member of PETROVIETNAM

**PTSC**  
**MARINE**

**PTSC**  
SUPPLY BASE

**PTSC**  
**M&C**

**PTSC**  
DA NANG

**PTSC**  
QUANG BINH

**PTSC**  
GEOSUBSEA

**PTSC**  
PRODUCTION SERVICES

**PTSC**  
OFFSHORE SERVICES

**PTSC**  
QUANG NGAI

**PTSC**  
THANH HOA

**PETRO HOTEL**

**VOFT**

**PETROVIETNAM**  
Shipyard

**PTSC**  
DINH VU

**MOFT**

**PTSC**  
PHU MY

**PETROVIETNAM**  
PVSb



## PTSC can supply chain of services as below:







Chapter

# 03

## ESTABLISHMENT AND DEVELOPMENT



Establishment of 36F Geophysics Group

Establishment of Petroleum Services Company (PSC)

Establishment of Petroleum Technical Services Company (PTSC)

PTSC's Headquarters was relocated to Ho Chi Minh City and PTSC's stock was listed on Hanoi Stock Exchange (HNX) under stock symbol - PVS

Expansion of core business sector: investment, development and operation in renewable energy projects

1966

1986

1993

2007

2021

1976

1989

2006

2009

Decision No. 458/TTg for approval of Vung Tau Petroleum Supply Base - the predecessor of GPTS

Establishment of Geophysical and Petroleum Technical Services Company (GPTS)

PTSC was equitized to become a Joint Stock Company

Petroleum Technical Services Corporation was renamed Petrovietnam Technical Services Corporation



Chapter

# 04

## CORE SERVICES

**PTSC provides high technical services for oil & gas, energy and industrial sectors with professionalism and international standards:**

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# EPCIC for offshore facilities

PTSC is the leading oil & gas contractor in Vietnam and the region, gaining prestige in the world for the provision of Engineering, Procurement, Fabrication, Construction, Transportation, Installation, Hook-up and Commissioning (EPC/EPCIC) services for offshore facilities such as drilling rigs, central processing platforms, wellhead platforms, compressor platforms, accommodation platforms, semi-submersible rigs, FSO/FPSO, subsea systems, etc....



With a creative, enthusiastic, technology-controlled and skillful workforce,

PTSC has successfully implemented nearly

# 100

## EPC/EPCI projects

ensuring the highest safety, quality schedule and efficiency with high appraisal from clients inside and outside Vietnam such as: Talisman, Premier Oil Vietnam, Petronas, British Petroleum, Cuu Long JOC, Hoang Long JOC, Bien Dong POC, Thang Long JOC, Lam Son JOC, Total E&P, ONGC, NOC...

Several large - scaled projects of national records with total fabrication volumes up to hundreds of thousand tons have been entirely completed by PTSC's local workforce.

PTSC is now capable of carrying out the detailed engineering by

# 100%

local engineers for many offshore oil & gas projects inside and outside Vietnam.

With the existing capabilities and experience, PTSC continues to develop and maintain its position as the leading EPC/EPCIC contractor in the region.



# FSO/FPSO/ FSRU/FLNG

## “The leading company...”

PTSC owns and co-owns 6 FSO/FPSO, provides operation and maintenance services for 9 FSO/FPSO/FRU in Vietnam and overseas. PTSC is the leading company in Vietnam that masters the technologies in newbuild, conversion, management, operation and maintenance services for the FSO/FPSO/FSRU/FLNG.



### Below are the main services provided by PTSC in this area:

- Investment, provision, charter of FSO/FPSO/FSRU/FLNG;
- Engineering, Procurement, Fabrication, Construction, Transportation, Installation, Hook-up and Commissioning (EPCIC);
- Management, operation, maintenance, repair and supply of skilled technical manpower for FSO/FPSO/FSRU/FLNG.



## Installation, Operation and Maintenance of offshore facilities

**Provision of Transportation & Installation (T&I), Hook-up & Commissioning (HUC), Operation & Maintenance (O&M) services.**

Since 2002, PTSC has successfully handed over many key projects for domestic and foreign oil & gas clients.



### Our main services are:

- Fabrication of small to medium-sized components for offshore installation;
- Transportation, installation, hook-up and commissioning for offshore facilities;
- Repair, upgrade, removal and decommissioning of oil & gas offshore facilities.



- Operation and maintenance of oil & gas offshore facilities.
- Provision of spare parts, bonded warehouse services, overhaul, maintenance of safety equipment, fire extinguishers, life - saving appliances, inspection and certification of equipment.



## Offshore supply vessels

**PTSC's fleet is operated by highly competent and experienced crew members.**

PTSC owns and operates a dedicated fleet to support exploration and operation activities in oil & gas, including: Anchor Handling Tug Supply vessels (AHTS), Offshore Support vessels (OSV & PSV) with Dynamic Positioning (DP1 & DP2) system, Seismic Support vessels, Field Standby & Safeguard vessels, etc.

**In addition to vessels under PTSC's ownership, we also cooperate with local and international allied ship owners under various forms: bareboat charter, time charter, spot charter, etc.**

PTSC's fleet is operated by highly competent and experienced crew members.





# Port & Supply Base

**PTSC is managing and operating a nationwide network of ports and supply bases, from the North to the South of Vietnam, with a total area of over 320 hectares**

Including PTSC Dinh Vu port, Nghi Son port, Hon La port, Son Tra port, Dung Quat port, Phu My port, Sao Mai-Ben Dinh, PV Shipyards, PTSC Supply Base.

This network satisfies full demands for logistics services of all petroleum companies, oil & gas operators and contractors operating in Vietnam, as well as serving as fabrication yards for modules, construction for oil & gas, industrial and offshore renewable projects inside and outside Vietnam.

**With the existing facilities and equipment, PTSC is able to provide a complete package of logistics and port services including:**

- Wharfage, jetty, warehouse, open storage space and office lease;
- Supply and rental of cargo handling equipment and vehicles;
- Cargo handling and transportation, heavy-lift weighing and load-out of offshore structures;



- Supply of fuel, lubricants, fresh water and ship-repair services;
- Technical manpower staffing;
- Shipping agency, customs clearance, logistics and multimodal freight forwarding.



# EPC for industrial plants

From the success of Dinh Co GPP project, Nam Con Son condensate storage project in the 2000s,

PTSC has now expanded the implementation of EPC projects for various onshore industries such as thermal power plants, petrochemical, refineries and fertilizer plants, which have reached international standards and satisfied the requirements of our clients.



**PTSC commits to provide services to customers with criteria as follows:**

### Safety

To maintain a safety management system in compliance with international standards and to ensure the highest commitment to safety and environmental protection during the execution phase.

### Schedule

To maintain the availability and diversity of facilities, resources and logistics systems to meet the project's schedule.

### Quality

To have an enthusiastic, professional and internationally qualified labor force; to employ experienced supervisory staff to fulfil the project's quality requirements.

### Competitiveness

To perfect the system and continuously to improve productivity in order to bring optimal solutions with competitive pricing.

# Geological survey, ROV survey & repair of subsea facilities

PTSC provides geological and geophysical surveys, survey and repair of subsea facilities using ROV (Remote Operated Vehicle), provision and operation of specialized ROV survey vehicles and equipment.



**“PTSC is  
the only  
member...”**

PTSC is the only member in Petrovietnam and in Vietnam has sufficient capacity and experience to carry out such survey services that meet international standards. Our main services are:

- Geophysical Survey Services;
- Geochemical Metocean & Oceanographic Survey Services. Data processing and interpretation, lab testing and reporting;
- Supports drilling operations, surveys, mechanical repair, maintenance and installation of subsea structures by ROV.

# Renewable Energy

“An Investor...”

With the experiences gained from the first renewable energy projects in Vietnam - Truong Sa islands (2008) and Phu Quy island (2010) - until joining in recent renewable energy service supply chains, also to adapt to the transition from traditional hydrocarbon to renewable energies and Vietnam Government's commitment of CO<sub>2</sub> net-zero emission by 2050, PTSC has been actively involved in the renewable energy field, especially offshore renewable energy, as a project investment and development corporation.



## “...and a Contractor”

In 2021, the General Meeting of the Shareholders of PTSC has resolved for PTSC to become the developer/investor of offshore wind projects, making PTSC the only one in Petrovietnam to have full legal grounds to invest in this potential and promising area.

PTSC is the first enterprise licensed by the Ministry of Natural Resources and Environment to implement monitoring, investigation, survey and evaluation of marine resources for the development of offshore wind power projects.

With its infrastructure, facilities and experience gained from oil & gas and industrial projects that PTSC executed successfully for more than 30 years, PTSC is able to provide full services to the offshore wind power project.

Such services including:

- Geophysical survey;
- EPC of jacket, monopile transition pile, offshore substation;
- Transportation, installation of jackets, monopile, transition pieces, offshore substation, subsea cables, towers and wind turbines;
- Supplying vessel for personnel and equipment transfer during operation;
- Operation and Maintenance of the turbine;
- De-commissioning.



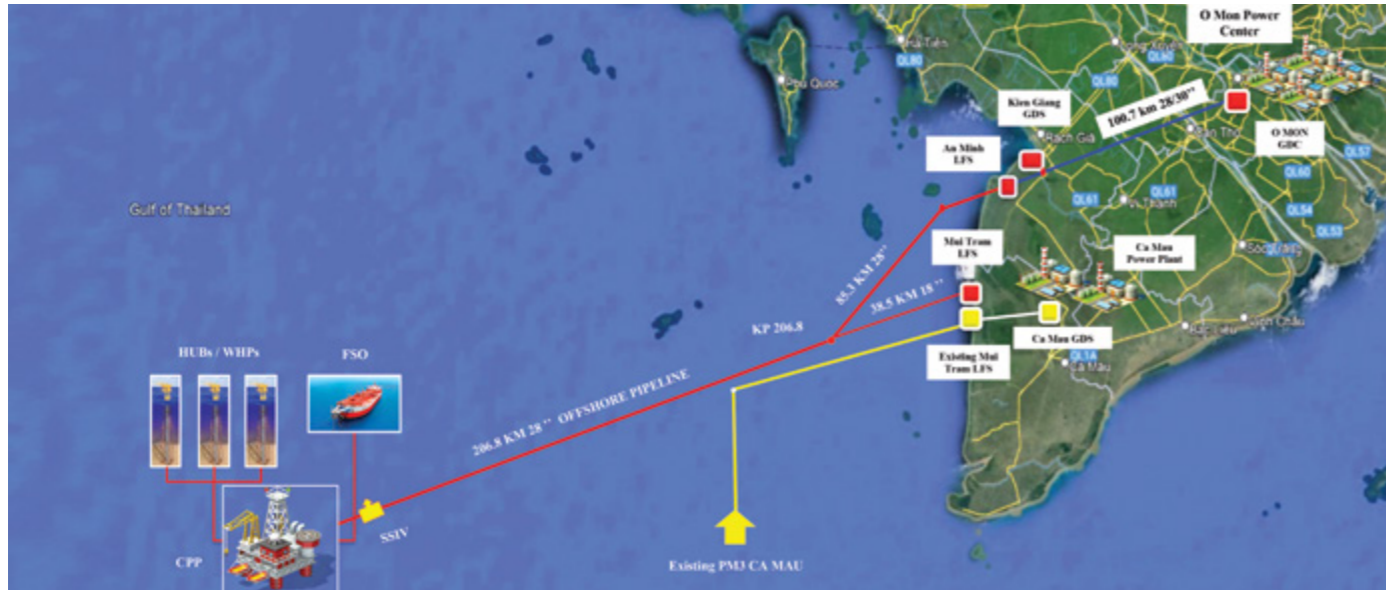
Chapter

# 05

# TYPICAL PROJECTS



# 1. Offshore Projects



## 01 BLOCK B - O MON

**Client:** PQ POC, SW POC  
**Location:** Vietnam  
**Duration:** 2023 - 2026

**Scope of work:** Engineering, Procurement, Construction, and Installation for Central Production Platform, Living Quarter Platform & Flare Tower - Vietnam Block B Gas.  
 Project Detailed Design for the Entire project, Procurement, Construction and Installation of Onshore Pipeline, Stations and Commissioning for the Entire project - Block B - O Mon Gas Pipeline Project.

## 02 GALLAF 3

**Client:** North Oil Company  
**Location:** Qatar  
**Duration:** 2021 - 2024

**Scope of work:** Main EPCIC contractor for O2 wellhead platforms; fabrication subcontractor for central processing platform jacket & bridges.

## 03 SAO VANG - DAI NGUYET

**Client:** Idemitsu Gas Production (Vietnam) Co.,Ltd  
**Location:** Vietnam  
**Duration:** 2017 - 2021

**Scope of work:** Main EPCIC Contractor for Sao Vang Central Processing Platform (CPP) and Dai Nguyet Wellhead Platform.

## 1. Offshore Projects



### 04 GALLAF 1

**Client:** North Oil Company  
**Location:** Vietnam - Qatar  
**Duration:** 2018 - 2021  
**Scope of work:** Main EPCIC contractor for O3 wellhead platform topsides & O1 linked-bridge, brownfield modification.

### 05 BIEN DONG 01

**Client:** BIEN DONG POC  
**Location:** Vietnam  
**Duration:** 2010 - 2012  
**Scope of work:** Main EPCIC contractor for Hai Thach Central Processing Platform (CPP) and HT1 & MT1 Wellhead platforms (WHPs).

## 2. Industrial Projects



### 01 LONG SON PETROCHEMICALS - LSP

**Client:** Long Son Petrochemical Co., Ltd  
**Location:** Vietnam  
**Duration:** 2019 - 2023  
**Scope of work:** Engineering, procurement, construction and commissioning.

### 02 THI VAI LNG TERMINAL

**Client:** PV GAS  
**Location:** Vietnam  
**Duration:** 2019 - 2023  
**Scope of work:** Engineering, procurement, construction and commissioning for Thi Vai LNG Receiving and Storage Terminal.

## 2. Industrial Projects



# 03

### PHU MY NH3 & NPK PLANTS

**Client:** PVFCCo  
**Location:** Vietnam  
**Duration:** 2015 - 2017  
**Scope of work:** Engineering, procurement and construction.

# 04

### CA MAU GAS PROCESSING PLANT

**Client:** PV GAS  
**Location:** Vietnam  
**Duration:** 2015 - 2017  
**Scope of work:** Engineering, procurement, construction.

## 3. Renewable Energy



# 01

### GREATER CHANGHUA 2B&4 (920MW)

**Client:** Orsted  
**Location:** Taiwan Strait  
**Duration:** 2023 - 2025  
**Project type:** Nearshore  
**Scope of work:** ePC 33 jackets.

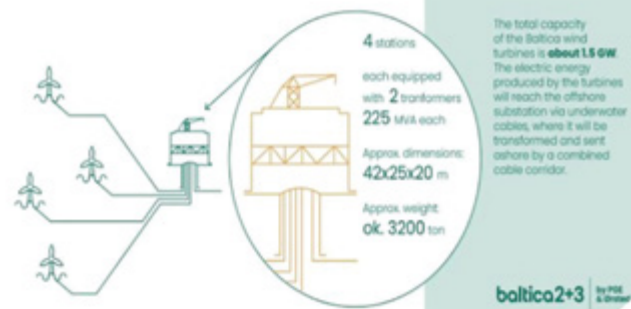
# 02

### HAI LONG 2 & 3 (1.042MW)

**Client:** Hai Long 2 Offshore Wind Power Co., Ltd & Hai Long 3 Offshore Wind Power Co., Ltd  
**Location:** Taiwan Strait, Taiwan  
**Duration:** 2022 - 2024  
**Project type:** Nearshore  
**Scope of work:** EPC of 02 Offshore Substations (OSS).

## 3. Renewable Energy

### Offshore substations for Baltica 2



# 03

## BALTICA 02 OWF

<b>Client:</b>	PGE Group - Ørsted
<b>Location:</b>	Poland
<b>Duration:</b>	Q2.2023 - Q4.2027 (scheduled)
<b>Project type:</b>	Nearshore
<b>Scope of work:</b>	Consortium member (with Semco Maritime) for the EPCC of 04 Offshore Substation Platforms.

# 04

## FENGMIAO 1 (500MW)

<b>Client:</b>	Copenhagen Infrastructure Partners - CIP
<b>Location:</b>	Taiwan
<b>Duration:</b>	2023 - 2025
<b>Project type:</b>	Nearshore
<b>Scope of work:</b>	CPC of 01 Offshore Substations (OSS).

# 05

## THANG LONG (3,400MW)

<b>Client:</b>	Enterprize Energy	<b>Project type:</b>	Nearshore
<b>Location:</b>	Binh Thuan, Vietnam	<b>Scope of work:</b>	Provision, installation and operation for a FLIDAR.
<b>Duration:</b>	2021 - 2023		



