

CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	ТҮРЕ	YEAR
NOVA-X	G1 FSO CALM BUOY		Thailand	60 m	 Technical support for the riser design. Technical support for Offshore Installation. Design & Review of engineering documents and Procedures. 		2024
YOKOHAMA RUBBER CO.	Balongang Field	YOKOHAMA	Indonesia	15 m	 Static & Dynamic Analysis of subsea hoses with CALM Buoy. Dynamic analysis of hoses in 100-10-1 yr. storms. 		2024
YOKOHAMA RUBBER CO.	Widuri terminal	УОКОНАМА	Indonesia	25 m	 Static & Dynamic analysis of subsea hoses with FSO Static & Dynamic Analysis of subsea hoses with CALM Buoy Dynamic analysis of hoses in 100-10-1 yr. storms 		2024
BOUSTEAD / BSES	Royal Malaysian Navy	Boustead Heavy Industries Corporation Berhad	Malaysia	25 m	 Design of subsea component Offshore installation procedures Offshore Installation design and calculation Structural design of support & lifting frames Technical Management of the project Supply of manpower for offshore installation 		2023 - 2024
BLUESEAS	Shell CPRP-07		Brunei	25 m	1. Design of ballast clamps for subsea 6" flowline		2023
YOKOHAMA RUBBER CO.	Pertamina CALM Buoy	YOKOHAMA	Indonesia	25 m	 Static & Dynamic Analysis of subsea hoses Dynamic analysis of hoses in 100-10-1 yr. storms 		2023
VESTIGO / VANTAGE	MAMPU-1 FPSO Nautica-Muar FSO	VESTIGD Investigate, Seek, Explore	Malaysia	75 m	 Procedures, engineering & analysis for mooring retrieval, mooring system installation and relocation of FPSO / FSO Procedures, engineering, analysis for riser retrieval & hook-up at FPSO & Platform Offshore Construction Manager offshore on-site 		2022
YOKOHAMA RUBBER CO.	CALM Buoy Hoses	УОКОНАМА	Japan	100 m	 CALM Buoy system hose design Complete Subsea Hose static & dynamic analysis and design Subsea design of hose and ancillary equipment, buoys etc. 		2022

Supply of Chain, Connectors etc. / Equipment

Detailed Design & Engineering / FEED

Offshore renewables

DEEPBLUE CONSULTANCY & ENGINEERING

PROJECTS TRACK RECORD S.U.R.F.

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YOKOHAMA RUBBER CO.	CALM Buoy Hoses	УОКОНАМА	Indonesia	50 m	 CALM Buoy system hose design Subsea Hose static analysis 		2021
ARAMCO / KAVIN ENGINEERING	Marjan Field	aramco 🕅	Saudi Arabia	55 m	 Detailed design of 3.4 km, 15 kV Subsea Power Cable with fibre optic and ancillary equipment, between two existing platform On-bottom stability, On-bottom walking assessment Route assessment and final route design Installation engineering, analysis, procedures & requirements Bend stiffeners, J-tube, protection Specifications for the cable and its equipment 		2021 / 2022
YOKOHAMA RUBBER CO.	CALM Buoy Hoses	УОКОНАМА	Japan	100 m	 CALM Buoy system hose design Complete Subsea Hose dynamic analysis and design FSO Complete floating Hose analysis 		2020
YOKOHAMA RUBBER CO.	MVS	УОКОНАМА	Vietnam	90 m	 Dynamic analysis of offloading hose when free floating behind FPSO Dynamic analysis of offloading hose when looped back behind FPSO Dynamic analysis of offloading hose when used in Tandem FPSO – Shuttle tanker Loads from floating hose on full system. 		2020
BLUESEAS ENERGY / EA TECHNIQUE	TST SEPAT - C		Malaysia	53 m	 Detailed Riser and flowline design Field lay-outs Fabrication of components Management of Riser / flowline system 		2019
T7GLOBAL / CHOC	FSO Puteri Cakerawala	T7 GLOBAL BERHAD	Malaysia	55m	 Detailed design of offloading floating hose system. Dynamic analysis and resonance analysis of floating hose during offloading and during extreme conditions. 		2019

Offshore Installation

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Offshore renewables

Decommissioning



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SOA / HYUNDAI (HOB)	CALM Buoy	HYUNDAI HEAVY INDUSTRIES CO, LTD.	Korea	34 m	 Hydrodynamic analysis of CALM Buoy Complete Mooring analysis, design and engineering, fatigue assessment etc. Riser analysis, design and engineering Detailed Installation Procedures 		2019
HESS EXPLORATION & PRODUCTION	Temporary Storage Tanker	HESS	Malaysia	56 m	 Complete EPIC contract of the Temporary Storage Tanker. Design of the mooring system for a Temporary Storage Tanker (TST) for condensate storage. Design of the subsea flowline, riser and hose system for condensate transfer from Central Processing Platform (CPP) to the TST. Design of subsea support bases and gravity systems. 		
HESS EXPLORATION & PRODUCTION	Temporary Storage Tanker	HESS	Malaysia	56 m	 Upgrading of 6-point mooring system to 8-point mooring system to increase the operability. Structural modifications to install 2 chain stoppers and 1 QRH at the stern of the TST. Installation engineering for the tanker, mooring and SURF. Provision of all personnel for installation, management, Flowline installation management EPIC of the Offshore installation of the tanker, mooring system and SURF. Offshore TST changeout of 6-point moored tanker with a new 8- point moored tanker. Design engineering and offshore procedures for offloading of condensate. 		2017- 2018
LNG LINK	FSRU	LNG Link	Indonesia	4 to 10 m	 FEED for Mooring system FEED for SURF and Hose system Budgets and project execution 		2017
TUFF	FPSO	TUFF	UAE	80 m	 OCM for the offshore mooring & SURF Installation, FPSO Hook-up. Engineering and design of Offshore mooring, SURF installation & Hook-up. Additional DEEPBLUE engineering personnel during Offshore installation. 		2016- 2017

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Decommissioning



CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	ТҮРЕ	YEAR
TUFF	FPSO	TUFF	UAE	80 m	 EPIC for the following: Mooring system, anchors, winches Subsea, Risers and umbilical Detailed design of under deck strengthening for all non-process related topsides and marine equipment Design of riser & Umbilical porches, floating hose porches General Naval Architecture Marine systems engineering and design Offshore Installation support, engineering and procedures 		2015- 2016
ING – BANK	FPSO OSX-2 Decommissioning and lay-up	ING BANK	Indonesia	15 m	 Decommissioning of the mooring system. Detailed mooring analysis for vessel lay-up Structural strength analysis of the FPSO and jetty bollards Offshore installation drawings Acted as owner representative 		2015
BC PETROLEUM	EPV Balai Mutiara	E PETROLEUM	Malaysia	70 m	 Engineering design and Consultant for the EPV Upgrade for SURF, mooring and installation: Field lay-out review and development Mooring analysis, mooring fatigue, tandem analysis Riser analysis Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation Specifications for mooring systems, components, vessel equipment, offloading hoses, winches and dependant structures and equipment Offshore installation analysis, procedures, methodology, requirements and specifications Review of Company produced engineering packages and detailed design Review of Company subcontractors work and proposals Marine warranty surveyor, review of 3rd party engineering 		2014 - 2015



CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	ТҮРЕ	YEAR
COBALT /	Cameia	Cobalt International Energy	West Africa	2800 m	 SURF, Subsea mooring and installation detailed engineering for an FPSO comprising of: Field lay-out review and development Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water Mooring analysis for turret and spread-moored Riser and umbilical analysis coupled analysis with mooring system, for the different options Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation Specifications for mooring systems, components, vessel equipment and dependant structures and equipment. Offshore Installation analysis, procedures, methodology, requirements and specifications 		2014
NAE – BUMI ARMADA	ETAN FPSO	BUMIARMADA	Nigeria	1800 m	 FEED study for an FPSO comprising of: Field lay-out review and development Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water Preliminary riser and umbilical analysis, coupled analysis with mooring system Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation Specifications for mooring systems, components, vessel equipment and dependant structures and equipment 	<u>-</u>	2014
PETROBRAS – BUMI ARMADA	LIBRA FPSO	BR PETROBRAS	Brazil	2400 m	 FEED study for an FPSO comprising of: 1. Field lay-out review and development 2. Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water 3. Riser and umbilical analysis, coupled analysis with mooring system 		2014

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CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
		BUMIARMADA			 Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation. Specifications for mooring systems, components, vessel equipment and dependant structures and equipment 		
рттер	FSO-2	PTTEP	Thailand	80 m	 Review of the different alternatives for the condensate production without an FSO Review of production platform requirements Design and engineering of SPM CALM Buoy system Subsea flow assurance of the production from the different fields 		2014
ENI – BUMI ARMADA	OCTP FPSO	BUMIARMADA	Ghana	900 m	 Field lay-out review and development. Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water Preliminary riser and umbilical analysis, coupled analysis with mooring system Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation Specifications for mooring systems, components, vessel equipment and dependant structures and equipment 		2013 - 2014
TULLOW	KUDU FPU		Namibia	160 m	 Field lay-out review and development Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water Preliminary riser and umbilical analysis, coupled analysis with mooring system Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation. Specifications for mooring systems, components, vessel equipment and dependant structures and equipment 		2013
РТТЕР	FSO-2	PTTEP	Thailand	80 m	 Technical support to PTTEP with the change out of existing risers. Offshore Installation support personnel. Review of Installation Company procedures and engineering. Offshore management and engineering support by DEEPBLUE 		2013

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PETRONAS – TECHNIP	Bukit Tua FPSO	DETRONAS DETRONAS	Indonesia	70 m	 Supply of mooring and riser engineering personnel Mooring analysis, mooring fatigue analysis Riser analysis, riser design Design and engineering of mooring and riser systems on board the FPSO Design and engineering of Marine systems Design and engineering of the offshore installation for mooring and risers Preparation of Detailed Specifications for all mooring, risers, subsea and marine systems 		2012 2013
РТТЕР	FSO-3	PTTEP	Thailand	70 m	 Feasibility study and pre-FEED for the development of a new FSO and integration with the existing field architecture. Mooring analysis and requirements for FSO, CALM buoy Flexible riser analysis 		2012
BUMI ARMADA NAVIGATION	UDANG Installation	BUMIARMADA	Indonesia	150	 Mooring system installation FPSO hook-up Riser installation Installation commissioning Offshore management and engineering support by DEEPBLUE personnel 		2012
BMT ASIA PACIFIC	LNG Terminal	CBMT Asia Pacific	PNG	50 m	 Hydrodynamic analysis of CALM buoy & riser. Preliminary analysis of CALM system with risers and moorings and vessel 		2012
ONGC	D-1 FPSO	ओएनजीसी प्रि ONGC	India	150 m	 Riser systems and subsea Mooring system, offshore installation Naval architecture, hull, vessel, structural systems All marines systems on board the FPSO, marine engineering 		2011 - 2012

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KEI – TJS	Sepanjang FSO	Kangean Energy Indonesia	Indonesia	45 m	 Design and engineer of mooring system and riser system for the FSO Offshore installation engineering and provision of support personnel for the offshore phase 		2010 _ 2011
ONGC-DPS	D-1 FPSO	ओएनजीसी ्र्रि ONGC	India	150 m	 Mooring systems, riser systems, subsea components, offshore installation FSO structural, marine and naval architectural requirements. Preparation of technical specification and RFQs for the above in order to issue for BID to EPIC Contractor 		2010
CHEVRON – EDG	FSO Vietnam Block B Gas Project FEED Study	Chevron	Vietnam	150 m	 Mooring systems, riser systems, subsea components, offshore installation FSO structural, marine and naval architectural requirements. All marine systems, IG, cargo, ballast, HVAC, LQ, ER, electrical, mechanical et Preparation of technical specification and RFQs for the above in order to issue for BID to EPIC Contractor 		2010
ONGC – DPS	D-1 FPSO FEED Study	औएन जीसी प्रि ONGC	India	150 m	 Mooring systems, riser systems, subsea components, field lay-out FSO structural, marine and naval architectural requirements Preliminary installation method statements Preparation of Technical Specification and RFQs for the above in order to issue for BID to EPIC Contractor 		2010
PETROFAC – DPS	FPSO FEED Study Cendor II	Petrofac	Malaysia	80 m	 Mooring systems, Riser Systems, Subsea components FSO structural, marine and Naval Architectural requirements All Marine systems, IG, Cargo, ballast, HVAC, LQ, ER, Electrical, mechanical etc Preparation of Technical Specification and RFQs for the above in order to issue for BID to EPIC Contractor 		2009 _ 2010



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COASTAL ENERGY	Songkhla FSO	E N & R G Y	Thailand	20 m	 Design of new and review of existing system with respect to mooring, risers, offshore and subsea arrangement Mooring analysis and design Offloading analysis and design Riser analysis and design Hose analysis and design Vessel mooring requirements and Installation requirements 		2009 _ 2010
GALOC PETROLEUM COMPANY	FPSO	GPC Galor Production Company	Philippines	600 m	 Mooring system, Riser and SURF Offshore Installation 		2009 2010
MISTUBISHI OIL	Sepanjang FSO	MITSUBISHI	Indonesia	45 m	Review on behalf of Client the detailed design of mooring and risers, review of subcontractors		2009
QATAR PETROLEUM	BH & MM Field	الأسل الرابية وال Galar Petroison	Qatar	0 – 50 m	Feasibility study for the change out of umbilicals for 60+ platforms		2009
QATAR PETROLEUM	Halul Field	ja Luli Jana Galar Putrokan	Qatar	0 – 50 m	Hydrodynamic engineering for electric cable		2009
LARSEN OIL & GAS	FPSO X	LARSEN OIL & GAS	Singapore	200 m	Design responsibility for field lay-out riser configuration, subsea systems, mooring systems, and offshore works		2008

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