

**WORLD LEADER
IN OCEAN TECHNOLOGY**

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**DSME
OFFSHORE
PRODUCTS &
PLANTS**



DSME OFFSHORE PRODUCTS & PLANTS

www.dsme.co.kr

DSME



DSME

DSME OFFSHORE PRODUCTS & PLANTS

PROLOGUE

- ➔ HISTORY
- ➔ EPCIC CONTRACTOR
- ➔ HSE / QUALITY MANAGEMENT
- ➔ PRODUCTS PORTFOLIO



HISTORY

- 1973 - Groundbreaking for Okpo Shipyard
- 1978 - Established Daewoo Shipbuilding & Heavy Machinery Co., Ltd. (DSHM)
- 1981 - Held topping out ceremony for completion of Okpo Shipyard
- 1982 - Delivered first chemical carrier, 'Bow Pioneer'
- 1983 - Delivered Korea's first Drilling Rig, 'Doo Sung'
- 1994 - Merged with Daewoo Heavy Industries Ltd.
- 1995 - Achieved aggregate export of USD 10 billion
- 1999 - Autonomous Underwater Vehicle 'Okpo 6000' selected as one of Korea's TOP 100 Technologies in 20C

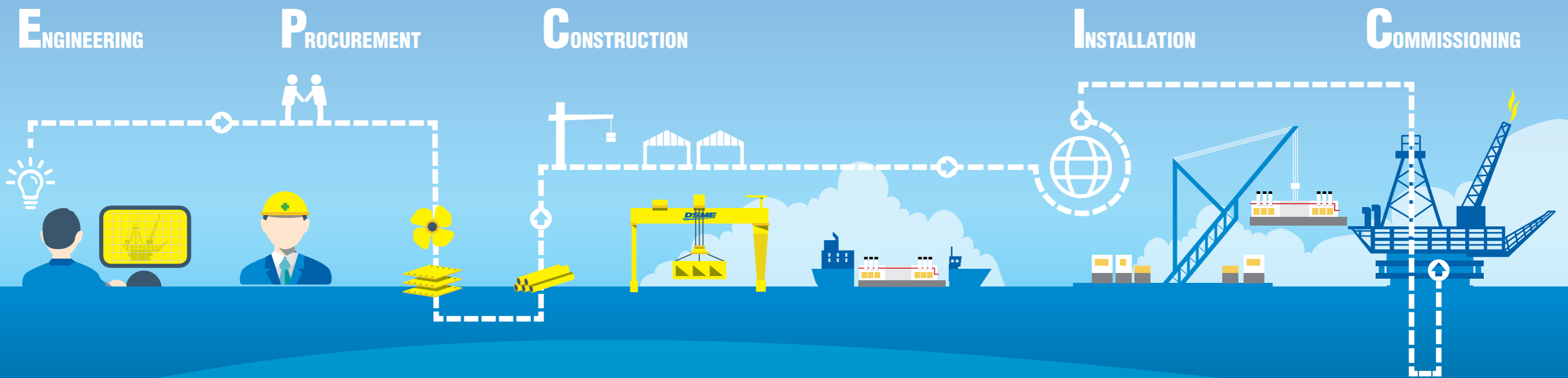
- 2000 - DHI's Shipbuilding Division became independent company
- 2001 - Awarded most LNGC orders in the world and acquired OHSAS 18001 Certification for first time in Korean shipbuilding industry
- 2002 - Changed official corporate title to DSME and adopted corporate core values, 'Trust' and 'Passion'
- 2003 - Named "World's Best Shipbuilder" by Maritime Asia's Lloyd's List
- 2004 - Deployed first PI system in global shipbuilding industry
- 2005 - Delivered world's first LNG-RV, which was selected as one of Korea's top 10 new technologies
- 2006 - Awarded orders worth over USD 10 billion
- 2007 - Received Transparent Management Award, USD 6 billion Export Tower Award at 44th Trade Day Ceremony, and set new record with orders surpassing USD 20 billion

- 2008 - Received Korea IT Innovation Award and acquired ISO 27001 Certification
 - Achieved safety result of 10 million man-hours with IIF in Qatar LNGC project
- 2009 - Received USD 10 billion Export Tower Award and world's largest floating dock debuted at DSME shipyard
- 2011 - Delivered world's largest offshore Pazflor FPSO and installed in Angola
 - Delivered world's largest Ro-Pax, "TANIT", to Tunisia Ferries
- 2012 - Awarded first export submarine order from South-East Asian Country
 - Awarded first LNG-FPSO order from Petronas, to be installed in Malaysia
 - Awarded most orders in the world, USD 14 billion, reached total of USD 10 billion in offshore plant orders for first time in global shipbuilding industry
- 2013 - Received "Contractor of the year - Major Capital Project Safety Performance" award from Chevron (Following 2006, 2007 year as well)

- CLOV FPSO : Received 2013 Contractor Safety award from TOTAL / Achieved 15.6 million man-hours without LTIs
- Awarded largest number of drillship newbuilding contracts (7 drillships)
- Awarded contract for high-spec Jack-Up Rig from Maersk Drilling
- Contracted for world's largest (263K) LNG-FSRU
- 2014 - Awarded the mega size Contract of Modular Plant for Kazakhstan
 - Awarded the largest number of LNGC newbuilding contracts (37 LNGCs) which worth over USD 9 billion
 - Awarded the world first Arc7 LNG Carriers
 - Reached the total of USD 10 billion in Gas Carrier (LNGC+LPGC) orders for the first time in the world shipbuilding industry
 - FGSS was selected as 10 most outstanding mechanical engineering by the Korean Federation of Mechanical Engineers Societies
 - Steel cutting for the first 3,000 ton submarine which was developed entirely with domestic technology

EPCIC CONTRACTOR

As World Best EPCIC Contractor, DSME provides total solutions to our valuable clients for a wide range of offshore oil and gas development projects.



HSE

DSME's HSE Credo

We, the management and staff of DSME, value, respect and care for every person and stakeholder. All our HSE activities will continuously serve and promote these core values.

We Shall:

The Golden Rule of HSE

Never, under any circumstance, compromise any HSE standard

Environmental Care

Proactively engage in environmental care activities to maintain a pollution-free eco-friendly shipyard

Incident Prevention

Proactively take incident prevention measures by identifying hazards and risks and immediately eliminate or mitigate any dangerous elements

Individual Commitment

Each conduct ourselves in a manner consistent with our HSE principles and standards

Health Management

Continuously strive to improve the work environment, create an illness-free workplace, and enhance the quality of life and health of every person

QUALITY MANAGEMENT

Quality Philosophy

As the world's leading shipyard, we willingly create the highest value and share deep trust with our customers.

Practical Mind of Quality Philosophy

1. Fulfill the promise made to our customers in advance of their requests.
2. Always bear in mind that each person is responsible for the product and performance quality of DSME.
3. Strive continuously to improve the quality of products & services.
4. Always remember that we are producing the world's best products at the world's leading shipyard.
5. Complete our assignments correctly the first time.

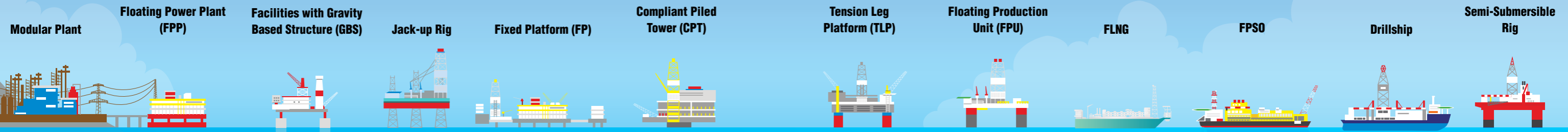


National & International Certificates in Safety, Health & Environment (OHSAS 18001, KOSHA 18001, ISO 14001, Carbon Trust Standard)



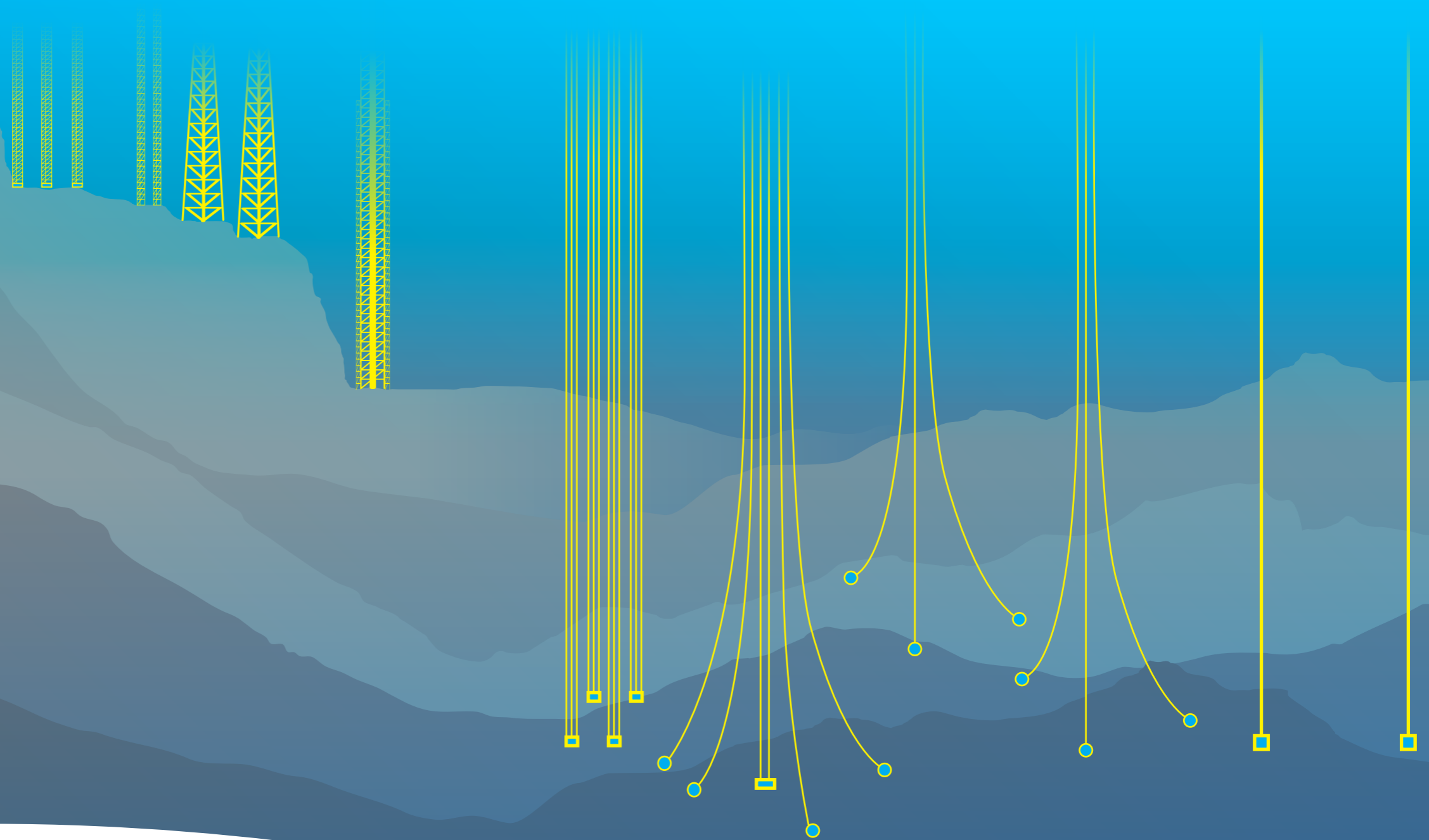
DSME maintains certificates that prove our readiness and competitiveness to meet any request from our customers.

- ISO 9001 Quality Management System
- ISO/TS 29001:2010 Management System Certificate
- Defense Quality Assurance System
- Certificate of Welding
- Testing Laboratory
- Calibration Laboratory
- NDE Testing Laboratory - DSEC



PRODUCT PORTFOLIO

DSME supplies a wide range of facilities for oil & gas field development with high quality and efficient project management.



DSME OFFSHORE PRODUCTS & PLANTS

PRODUCTS

- DRILLSHIP
 - SEMI-SUBMERSIBLE RIG
 - JACK-UP RIG
 - DSME NEW DESIGN DEVELOPMENT
 - FIXED PLATFORM
 - FPSO
 - FLNG
 - FPU
 - MODULAR PLANT
 - OFFSHORE CONSTRUCTION VESSEL
 - FLOATING POWER PLANT (FPP)
- 

DRILLSHIP

The world's
largest number
of Drillship
contract in 2013



TRANSOCEAN DRILLSHIP (H.3612 / DEEPWATER ASGARD)

DIMENSIONS	238 m(L) x 42 m(W) x 19 m(D)	
CAPACITY	VARIABLE DECK LOAD	23,000 MT
	DRILLING DEPTH	40,000 FT
	WATER DEPTH	12,000 FT
	DRILLING SYSTEM	DUAL
DESIGN	DSME 12000	
CLIENT	TRANSOCEAN	
DELIVERY	FEB 2014	
SCOPE OF WORK	EPC	

DSME has its own drillship designs with the capability of drilling up to 40,000 feet depth at 12,000 feet water depth. DSME is the only shipyard in the world that is currently constructing a series of drillships specifically designed to be compatible with 20,000 psi well control equipment. DSME is proud to present its valued clients with its superb know hows and skills in engineering & construction in order to deliver excellent solutions for the client's individual needs and requirements.

VANTAGE DRILLSHIP (H.3615 / TUNGSTEN EXPLORER)



DIMENSIONS	238 m(L) x 42 m(W) x 19 m(D)	
CAPACITY	VARIABLE DECK LOAD	20,000 MT
	DRILLING DEPTH	40,000 FT
	WATER DEPTH	10,000 FT
	DRILLING SYSTEM	SINGLE
DESIGN	DSME 10000	
CLIENT	VANTAGE DRILLING	
DELIVERY	JUL 2013	
SCOPE OF WORK	EPC	



ATWOOD DRILLSHIP (H.3617/ ATWOOD ACHIEVER)

DIMENSIONS	238 m(L) x 42 m(W) x 19 m(D)	
CAPACITY	VARIABLE DECK LOAD	23,000 MT
	DRILLING DEPTH	40,000 FT
	WATER DEPTH	12,000 FT
	DRILLING SYSTEM	DUAL
DESIGN	DSME 12000	
CLIENT	ATWOOD OCEANICS	
DELIVERY	AUG 2014	
SCOPE OF WORK	EPC	

TRANSOCEAN DRILLSHIP (H.3511 / DEEPWATER CONQUEROR)

DIMENSIONS	238 m(L) x 42 m(W) x 19 m(D)	
CAPACITY	VARIABLE DECK LOAD	23,000 MT
	DRILLING DEPTH	40,000 FT
	WATER DEPTH	12,000 FT
	DRILLING SYSTEM	DUAL
DESIGN	Enhanced DSME 12000 (Riser in Hull)	
CLIENT	TRANSOCEAN	
DELIVERY	UNDER CONSTRUCTION	
SCOPE OF WORK	EPC	



SEMI-SUBMERSIBLE RIG

The world's largest number of Semi-rig construction



↑ ODFJELL SEMI RIG (H.3033/ DEEPSEA ABERDEEN)

DIMENSIONS	LENGTH OVERALL	118.60 m
	BEAM OVERALL	102.00 m
	HEIGHT, TO BOX BOTTOM	36.50 m
CAPACITY	MAX. WATER DEPTH / DRILLING DEPTH	10,000 FT / 35,000 FT
	VARIABLE DECK LOAD	7,500 MT
DESIGN	GVA7500	
CLIENT	ODFJELL DRILLING	
DELIVERY	NOV 2014	
SCOPE OF WORK	EPC	

DSME has delivered twenty one (21) Semi-Submersible Drilling Rigs (“Semi Rig”) to date, topping all competitors in production. From moderate condition in Gulf of Mexico to the harsh environment of the North Sea, DSME Semi-Submersible Drilling Rigs provide top performance as evidenced by its leading share of the market. Especially, it was reported that H.3023 Odfjell Deepsea Atlantic Semi Rig achieved 98% uptime in 2012 during operation in the Norwegian offshore area.

➔ SEADRILL SEMI RIG (H.3020 / WEST AQUARIUS)

DIMENSIONS	LENGTH OVERALL	117.90 m
	BEAM OVERALL	96.70 m
	HEIGHT, TO BOX BOTTOM	45.00 m
CAPACITY	MAX. WATER DEPTH / DRILLING DEPTH	10,000 FT / 35,000 FT
	VARIABLE DECK LOAD	6,686 MT
DESIGN	GVA7500	
CLIENT	SEADRILL	
DELIVERY	JAN 2009	
SCOPE OF WORK	EPC	



↑ PETROSERV SEMI RIG (H.3028 / SSV CATARINA)

DIMENSIONS	LENGTH OVERALL	116.60 m
	BEAM OVERALL	96.70 m
	HEIGHT, TO DERRICK TOP	119.00 m
CAPACITY	MAX. WATER DEPTH / DRILLING DEPTH	10,000 FT / 35,000 FT
	VARIABLE DECK LOAD	8,562 MT
DESIGN	GVA7500	
CLIENT	PETROSERV	
DELIVERY	NOV 2012	
SCOPE OF WORK	EPC	

↑ SONGA CAT.D SEMI RIG (H.3031 / SONGA EQUINOX)

DIMENSIONS	LENGTH OVERALL	116.00 m
	BEAM OVERALL	97.00 m
	HEIGHT, TO BOX BOTTOM	35.75 m
CAPACITY	MAX. WATER DEPTH / DRILLING DEPTH	500 M / 8,500 M
	VARIABLE DECK LOAD	4,000 MT
DESIGN	GVA4000 NCS	
CLIENT	SONGA OFFSHORE	
DELIVERY	UNDER CONSTRUCTION	
SCOPE OF WORK	EPC	

JACK-UP RIG

A successful first
step towards
high-spec Jack-up
market



MAERSK JACK-UP RIG (H.3305)

DIMENSIONS	88.8 m(L) x 105.1 m(W) x 12.0 m(D)
LEG LENGTH	206.8 m
CAPACITY	DRILLING DEPTH 12,000 M
	WATER DEPTH 150 M
DESIGN	GustoMSC CJ70
CLIENT	MAERSK DRILLING
DELIVERY	UNDER CONSTRUCTION
SCOPE OF WORK	EPC

DSME NEW DESIGN DEVELOPMENT

e-SMART DRILLSHIP

By incorporating feedback from drilling contractors, oil companies, and vendors, DSME has developed the latest DSME e-SMART drillship design featuring cozy accommodations, optimized mud/bulk system arrangement, increased deck and drill floor space. DSME e-SMART drillship is capable of operating in water up to 12,000 feet deep and in drilling depths of 40,000 feet.

- eco friendly,
- environmentally friendly
- energy saving
- Safety enhancement
- Maintenance easy
- Advanced operability
- Reliable functionality
- Top comfort



- High Variable Deck Load 34,000 Tons incl. FO 7,300 Tons
- 2 BOP & Maximum 6 X-mas Tree Space
- 20,000psi x 7 Rams or 15,000psi x 8 Rams BOP
- Space for 5 Mud Pumps (7,500psi) 2 ROV
- 3 Pipe / DP Cable Trunks Under Main Deck for Prevention of Dropped Objects & Easy Access Maintenance

DSME 4000M SEMI-RIG DESIGN



DSME has developed its own design for semi-submersible rig which is capable of drilling up to 30,000 feet while operating in thruster-assisted mooring or dynamic positioning mode in mid-water area.

- Variable Deck & Column Payload of 4,000 tons
- Ergonomic L/Q Design
- Designed for Environmental Protection (CLEAN Design, Zero Discharge, BWTS, Nox Tier 3 etc)

FIXED PLATFORM

A world leading
EPCIC Contractor for
Fixed Platform
Projects



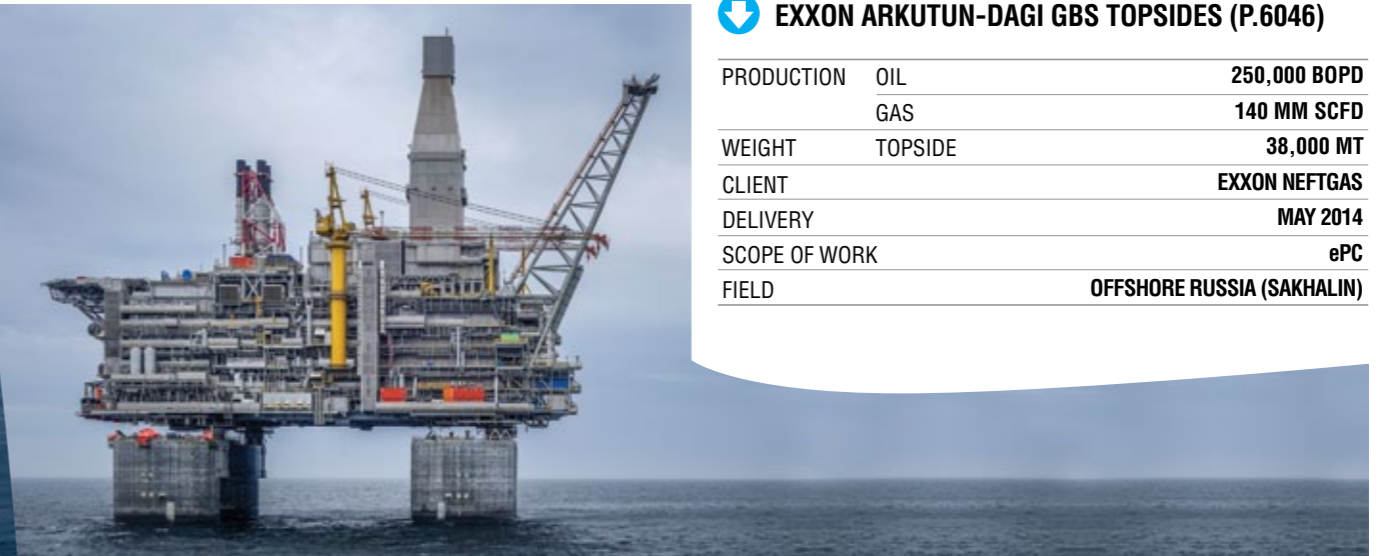

↑ CHEVRON TOMBUA-LANDANA CPT (P.6044)

PRODUCTION	OIL	130,000 BOPD
	GAS	217 MMSCFD
	WATER	310,000 BWPD
WEIGHT	TOPSIDE	25,743 MT
	TOWER	51,422 MT
CLIENT	CABINDA GULF OIL COMPANY	
DELIVERY	OCT 2008 (EX-SHIPYARD)	
SCOPE OF WORK	EPCIC	
FIELD	OFFSHORE ANGOLA	

DSME has evolved into a total EPCIC Contractor from its extensive experience in delivering numerous fixed platform projects to various clients on a EPCIC basis. DSME achieves a high safety performance record, world-class quality and on-time delivery of fixed platform projects by taking advantage of its know-how accumulated from extensive offshore experience.

↓ EXXON ARKUTUN-DAGI GBS TOPSIDES (P.6046)

PRODUCTION	OIL	250,000 BOPD
	GAS	140 MM SCFD
WEIGHT	TOPSIDE	38,000 MT
CLIENT	EXXON NEFTGAS	
DELIVERY	MAY 2014	
SCOPE OF WORK	ePC	
FIELD	OFFSHORE RUSSIA (SAKHALIN)	



↑ CHEVRON SANHA CONDENSATE PLATFORMS (P.6037)

PRODUCTION	OIL	77,000 BOPD
	GAS	330 MMSCFD
WEIGHT	21,035 MT	
CLIENT	CABINDA GULF OIL COMPANY	
DELIVERY	NOV 2004	
SCOPE OF WORK	EPCIC	
FIELD	OFFSHORE ANGOLA	

FPSO

DSME is a world-leading, proven EPCIC contractor for FPSO project with an outstanding HSE QA/QC track record and is well-known for its on-time and within-budget delivery.

A world leading
EPCIC Contractor for
FPSO Projects




↑ TOTAL CLOV FPSO (H.6049)

STORAGE		1,781,000 BBL
PRODUCTION	OIL	160,000 BBL
	GAS	6.5 MSm ³ / DAY
DIMENSIONS	HULL	305 m(L) x 61m(B) x 32 m(D)
	WEIGHT	HULL 76,600 MT
	TOPSIDE	31,800 MT
CLIENT	TOTAL E&P ANGOLA (BLOCK 17)	
DELIVERY	2Q 2014 (1ST OIL)	
SCOPE OF WORK	EPCIC	
FIELD	OFFSHORE ANGOLA	

➡ TOTAL PAZFLOR FPSO (H.6045)

STORAGE		2,000,000 BBL
PRODUCTION	OIL	232,000 BOPD
	GAS	4.39 MSm ³ / Day
DIMENSIONS	HULL	325 m(L) x 61 m(W) x 32 m(H)
	WEIGHT	HULL 81,019 MT
	TOPSIDE	41,102 MT
CLIENT	TOTAL E&P ANGOLA (BLOCK 17)	
DELIVERY	DEC 2011	
SCOPE OF WORK	EPCIC	
FIELD	OFFSHORE ANGOLA	



↑ CHEVRON AGBAMI FPSO (H.6043)

STORAGE		2,160,000 BBL	CLIENT	STAR DEEP WATER PETROLEUM (OML 216&217)
PRODUCTION	OIL	250,000 BOPD	DELIVERY	JUL 2008 (1ST OIL)
	GAS	12.74 MSm ³ / Day	SCOPE OF WORK	EPCIC
DIMENSIONS	HULL	320 m(L) x 58.4 m(W) x 332 m(H)	FIELD	OFFSHORE NIGERIA
	WEIGHT	HULL 69,700 MT		
	TOPSIDE	33,798 MT		

FLNG

As one of the world's leading marine EPCIC contractors, DSME has distinguished itself as a premier supplier of offshore oil and gas FPS (Floating Production Systems). DSME FLNG has set the stage to become the technical solution of preference for the development of stranded gas fields around the world. It adds significant value to the LNG value chain by streamlining the cost of facilities and truncating the development timeline.

The World's
First FLNG



↓ PETRONAS FLNG (H.6302)

DIMENSION	365m x 60m x 33m
LNG PRODUCTION CAPACITY	1.2 MTPA
STORAGE CAPACITY	177K(LNG) / 20K (CONDENSATE)
CARGO CONTAINMENT SYSTEM	GTT N096 MEMBRANE (TWO-ROW)
LIQUEFACTION PROCESS	DUAL N2 EXPANSION
FIELD	KANOWIT, MALAYSIA
SCOPE OF WORK	EPCIC
CLIENT	PETRONAS
CONTRACT AWARD	2012

DSME 3.0MTPA FLNG

DSME has developed its own concept design for 2.0 MTPA and 3.0 MTPA FLNGs that are best suited for development of mid-scale gas fields, and continues to enhance their designs.



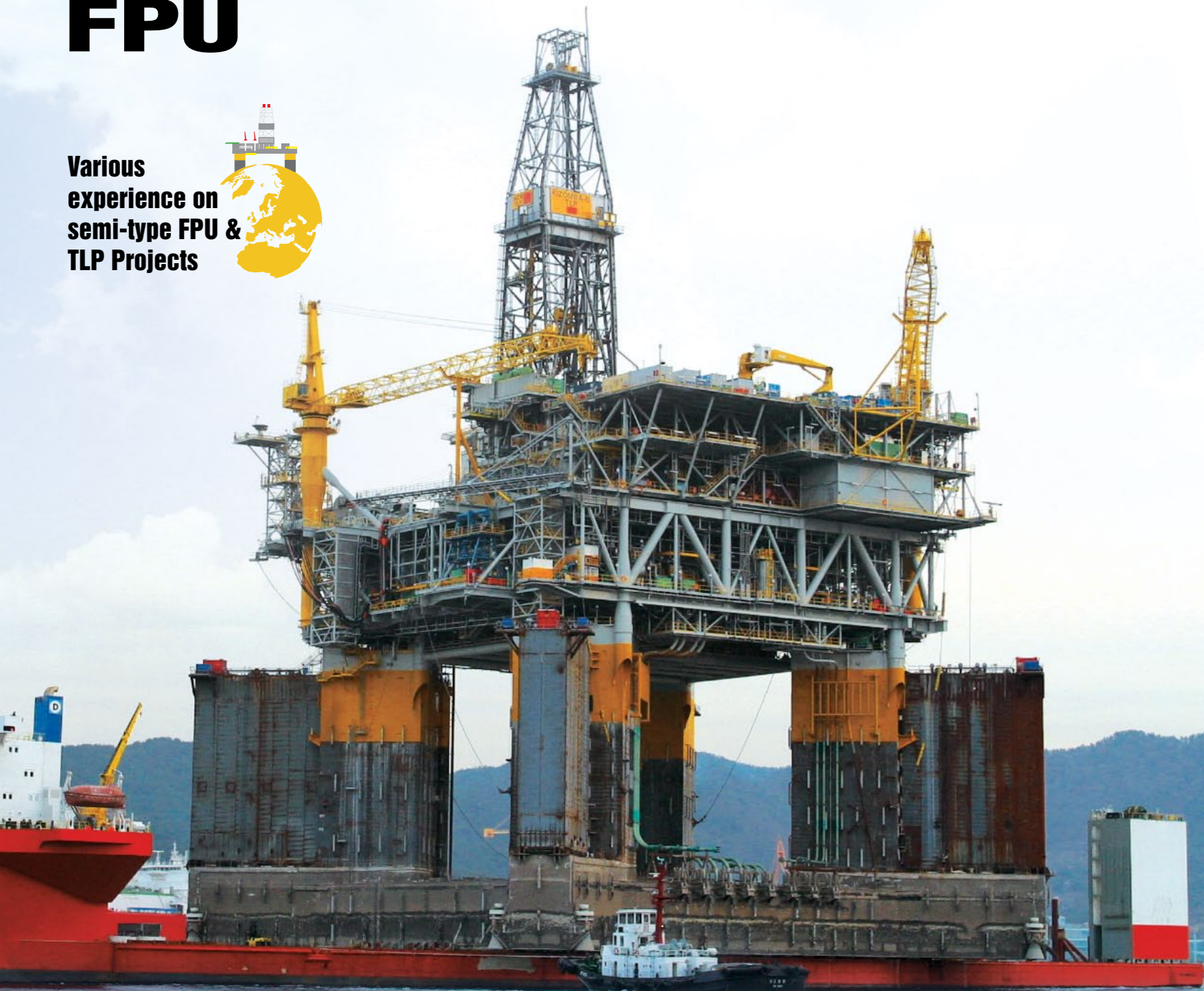
↑ DSME 3.0 MTPA

DIMENSION	408m(L) X 65m(B) X 34.3m(D)
LNG PRODUCTION CAPACITY	3.0 MTPA
STORAGE CAPACITY	228K(LNG) / 35K(LPG) / 41K(CONDENSATE)
CARGO CONTAINMENT SYSTEM	GTT N096 MEMBRANE (TWO-ROW)
LIQUEFACTION PROCESS	APCI DMR
TARGET FIELD	NORTH WEST AUSTRALIA



FPU

Various
experience on
semi-type FPU &
TLP Projects



EXXON KIZOMBA "B" - SWHP (H.6039)

DIMENSIONS	HULL	92.28m(L) x 92.8m(W) x 44.96m(H)	CAPACITY	OIL	250,000 BOPD
WEIGHT	HULL	12,207 MT		WATER	230,000 BWPD
	TOPSIDE	11,000 MT		INJECTION WATER	420,000 BWPD
TENDON		8 EA		GAS	215 MMSCFD
RISER		1 DRILL + 31 PRODUCTION	CLIENT	ESSO EXPLORATION ANGOLA (BLOCK 15)	
NUMBER OF PRODUCTION WELL : 33 EA			DELIVERY	MAR 2005	
			SCOPE OF WORK	EPC	
			FIELD	OFFSHORE ANGOLA	

DSME has built and delivered several Floating Production Units such as Semi-Submersible Production Drilling and Quarter Platforms and Tension Leg Platforms which are under operation in GOM, West Africa and North Sea. With these successes, DSME stands ready to execute the world's best FPU projects for our clients.

CHEVRON BIG FOOT E-TLP HULL (H.6050)

DIMENSION	103m(L) x 103m(B) x 67m(H)
WEIGHT	34,000 MT
CLIENT	CHEVRON NORTH AMERICA EXPLORATION & PRODUCTION
DELIVERY	4Q 2012
SCOPE OF WORK	EPC
FIELD	GULF OF MEXICO



BP THUNDER HORSE SEMI FPU (H.6036)

DIMENSIONS	DECK LEVEL	123m(L) x 105m(W) x 58m(H)	CLIENT	BP AMERICA PRODUCTION COMPANY, USA	
	PONTOON SECTION	26m(W) x 12m(H)	DELIVERY	SEP 2004	
	COLUMN	26m(L) x 22m(B)	SCOPE OF WORK	EPC	
WEIGHT		59,840 MT	FIELD	GULF OF MEXICO	
DRILLING SYSTEM		DUAL			

MODULAR PLANT

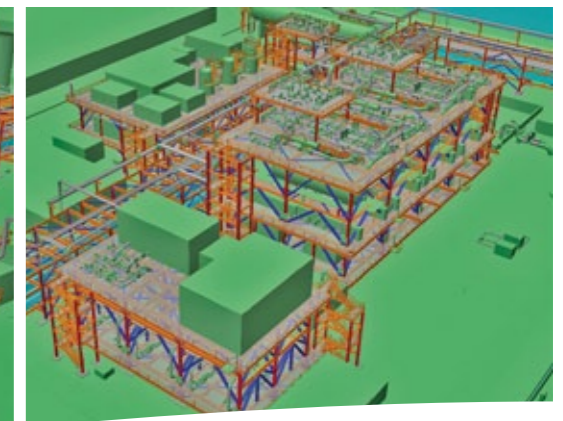
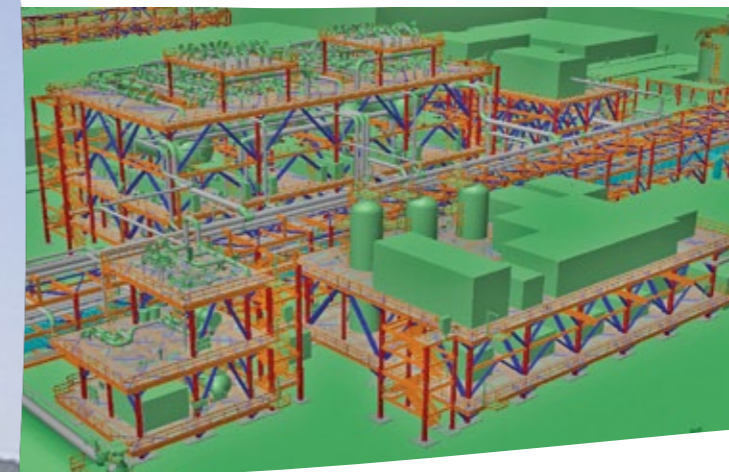
Reliable Solution
Provider for Modularized
Plant Fabrication



By maximizing its world best capacity coming from extensive offshore experiences, DSME has widened its expertise in modular plant area. DSME can successfully manage the vast volume of modular plant fabrication with its qualified resources from Okpo and other subsidiary yards - especially Ulsan Yard . Further, with its experiences from recent project, DSME aims to expand its business area and provide high-value added service as modular plant fabricator.

EXXONMOBIL CHAYVO OPF EXPANSION (P.6048)

WEIGHT	15,500 MT (12 MODULES)
CLIENT	EXXONMOBIL / FLUOR TRANSWORLD SERVICES INC
DELIVERY	3Q 2012 (SAIL AWAY)
SCOPE OF WORK	ePC
FIELD	RUSSIA (SAKHALIN)



ZADCO UZ 750 EPC-2 ONSHORE MODULE (P.6059)

WEIGHT	33,000 MT (22 MODULES)
CLIENT	ZAKUM DEVELOPMENT COMPANY (ZADCO)
DELIVERY	2Q 2016 (SAIL AWAY) / 2Q 2017 (COMPLETION)
SCOPE OF WORK	EPC
FIELD	ABU DHABI

OFFSHORE CONSTRUCTION VESSEL

Winner of the
2013 KVR
Shipping Award
Heerema 'Aegir'



HEEREMA DEEPWATER CONSTRUCTION VESSEL (H.3402/AEGIR)

DIMENSION	210.25m(L) x 46.2m(B) x 16.1m(D)
MAIN SYSTEM	3 x 2,400MT REEL, 1 x RJ-LAYING SYSTEM, 1 x 4,000MT HEAVY LIFT CRANE, 2 x 40MT KNUCKLE BOOM CRANE
DELIVERY	JAN 2013
SCOPE OF WORK	EPCC
CLIENT	HEEREMA OFFSHORE SERVICES

DSME combines wide knowledge of offshore project integration and management and expertise in commercial ship newbuilding to produce offshore support vessels with efficient performance. It holds a proven track record of constructing large complex OSVs such as Heavy Lift Construction and S-Lay/J-Lay/Flexible Pipelay Vessels that serve various functions in the offshore energy industry.

TOP (TECHNIP ODEBRECHT PLSV) PIPELAY VESSEL (H.3403)



DIMENSION	145.99m(L) x 30.0m(B) x 12.7m(D)
MAIN SYSTEM	550MT TENSION CAPACITY FLEXIBLE LAY SYSTEM (VERTICAL LAYING), 8 x 250MT REEL, 1 x 250MT KNUCKLE BOOM CRANE, 1 x 50MT SINGLE JIB CRANE
DELIVERY	JUL 2014
SCOPE OF WORK	EPCC
CLIENT	TECHNIP ODEBRECHT PLSV



ALLSEAS PLATFORM DECOMMISSIONING AND PIPELAY VESSEL (H.3401/PIETER SCHELTE)

DIMENSION	381.8m(L) x 123.75m(B) x 30m(D)
MAIN SYSTEM	48,000MT TOP SIDE LIFTING SYSTEM, 25,000MT JACKET LIFTING SYSTEM, S-LAY PIPELAY SYSTEM, 1 x 600MT MAIN CRANE, 1 x 65MT CRANE, 3 x 40MT CRANE
DELIVERY	NOV 2014
SCOPE OF WORK	EPCC
CLIENT	SOCIÉTÉ D'EXPLOITATION DU PIETER SCHELTE

FLOATING POWER PLANT (FPP)

As a world leader in ocean technology, DSME has developed two types of FPPs: Floating Storage Power Plant (FSPP) and Barge Mounted Power Plant (BMPP), both of which are constructed at a shipyard and moved to the installation site.



Fast-Track Solution

- Simpler permitting processes
- Avoid NIMBY and claims

Movability & Asset Security

- Higher asset security from natural disaster, civil war and sovereign risk
- Continuous revenue stream by relocation to wherever the power is needed

Eco-Friendly

- Minimize destruction of the environment
- Negligible pollution of thanks to majority of construction in shipyard

All-In-One Solution

- LNG storage + regasification & gas distribution + electric power generation in one solution
- Quick and easy power supply for remote areas



DSME's FSPP includes multiple functions of power generation, LNG storage, regasification and gas distribution. With this all-in-one solution, it can supply electricity and natural gas to meet local demands.

200MW COMBINED CYCLE FSPP

DIMENSION	161 X 60 X 33 (10)M
CONFIGURATION	3 - 3 - 1 (COMBINED CYCLE)
FUEL	NATURAL GAS
LNG STORAGE CAPACITY	88,800M ³ (22,000M ³ X 4 TANKS)
CARGO CONTAINMENT SYSTEM	MEMBRANE TYPE, GTT N096
REGAS CAPACITY	50 ~ 200 MMSCFD
COMPLEMENT	26 PERSONS
PROPULSION	NO PROPULSION

100MW GAS ENGINE FSPP

DIMENSION	196 X 46.4 X 26.5 (8.85)M
CONFIGURATION	GAS ENGINE X 6 SETS
FUEL	NATURAL GAS
LNG STORAGE CAPACITY	100,400M ³ (50,200M ³ X 2 TANKS)
CARGO CONTAINMENT SYSTEM	MEMBRANE TYPE, GTT N096
REGAS CAPACITY	50 ~ 200 MMSCFD
COMPLEMENT	26 PERSONS
PROPULSION	NO PROPULSION

DSME has developed various designs of BMPPs: Coal-fired BMPP, Engine based BMPP and Combined Cycle BMPP.

BMPP

MODEL	DIMENSION	FUEL	GENERATOR
25MW BMCPP	104 X 41 X 9.5 (4)M	COAL	BOILER & STEAM TURBINE
100MW DF BMPP	85.5 X 34.2 X 7.0 (5.4)M	NATURAL GAS & HFO / MDO	ENGINE
200MW DF BMPP	135 X 36 X 7 (3.5)M	NATURAL GAS & HFO / MDO	ENGINE
210MW CC BMPP	112.5 X 40 X 9.5 (4)M	NATURAL GAS & MDO	TURBINE
240MW CC BMPP	125 X 52 X 8 (4.5)M	NATURAL GAS & MDO	TURBINE

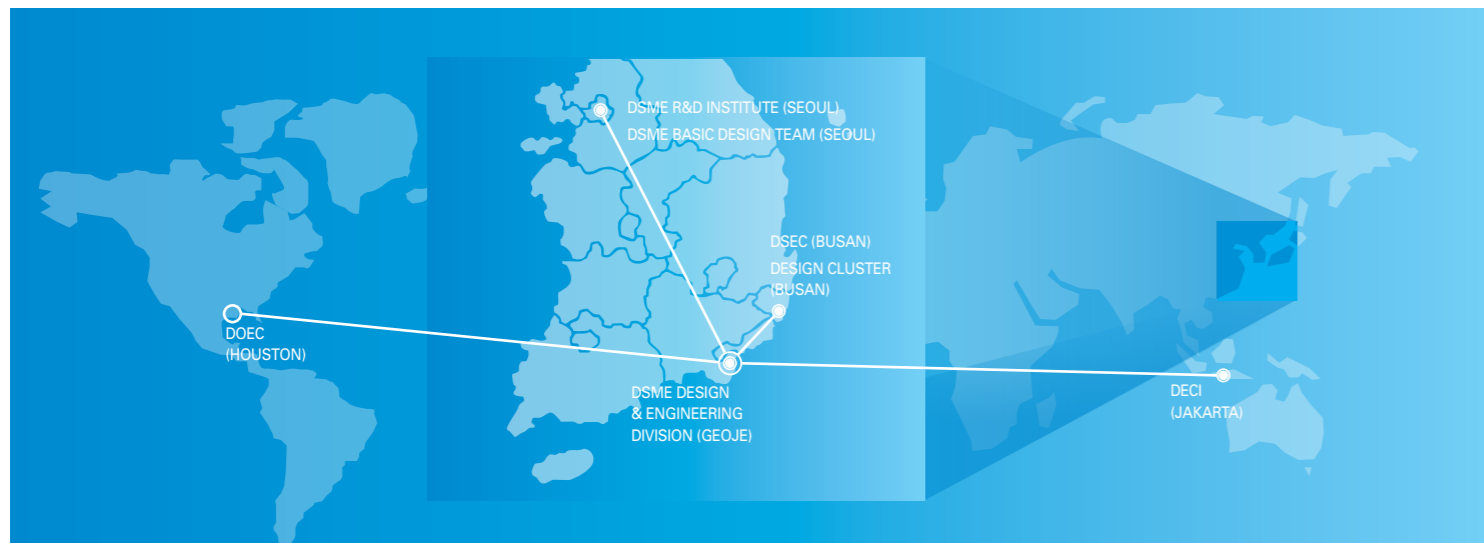


DSME OFFSHORE PRODUCTS & PLANTS

APPENDIX

- ➔ GLOBAL ENGINEERING NETWORK
- ➔ DOEC / DECI
- ➔ OKPO YARD LAYOUT
- ➔ PERFORMANCE
- ➔ GLOBAL DSME

GLOBAL ENGINEERING NETWORK



Engineering Network

We are expanding our engineering capacity and capability by establishing Global R&D Engineering Center in Seoul to accommodate Basic Design Team and R&D Institute. Together with PT DSME Indonesia in Jakarta, and DSME Offshore Engineering Corp. in Houston, the Global R&D Engineering Center will provide.

- Total engineering solutions ranging from FEED to production design
- Localized engineering services

DOEC (DSME OFFSHORE ENGINEERING CORP)

Our Vision DOEC will lead the engineering innovation of DSME Group at the core of DSME Global Engineering Network, and is aiming to become a world-class offshore engineering company. Based on its vision and core values, DOEC's efforts are focused on maximizing client's benefits while promoting development of its employees.

Our Service DOEC specializes in offshore production facilities such as FPSO, FPU, Fixed Platform and FLNG. DOEC aims to achieve the status of top-notch service provider in the field through customer-oriented Front Engineering and Detailed Engineering Coordination. Its business spans over a wide range of different services including conceptual design, Pre-FEED (Front end Engineering and Design), FEED and FEED Verification, and coordination & consultation on offshore production facility engineering.

DOEC's strong presence in front engineering and construction experience stems from merging talent pools of engineers in Houston and construction managers at DSME. Thorough coordination of scheduling, procurement and construction from the planning phase assures customer satisfaction.

DECI (PT. DSME INDONESIA)

Our Vision DECI, or DSME Engineering Center in Indonesia, is pre-emptively established in the city of Jakarta. By maximizing synergy effect with DSME through development of its core capabilities in detailed and production engineering, DECI will create new business opportunities in offshore Oil & Gas, Small Scale LNG and Electric Power Plant projects within Indonesia as well as other South East Asian nations.

DECI's contribution will not only result in a win-win situation for DSME, but also for local business development as well. DECI will utilize DSME's extensive network based on its history of success within the region, to establish itself as a leading engineering company in South East Asia.

Our Service DECI has been providing 1) detailed engineering service, 2) production engineering service, 3) engineering coordination of the highest quality to DSME since 2013 and plans on expanding its business to Oil & Gas, Small Scale LNG and Electric Power Plant in the near future, based on its expertise in the following ;

- 1) Layout Design & Material Handling
- 2) 3D Modeling
- 3) Detail Design of Structure, Piping and Electric System
- 4) Structure, Piping and Electric Analysis & Calculation
- 5) Production Design
- 6) MTO / Material Procurement
- 7) Design Coordination and Management

Strong ties with DSME and access to DSME's cutting edge technologies enables DECI to provide high quality, specialized engineering services to Indonesian and South East Asian clients at a competitive price.

OKPO YARD LAYOUT

YARD SIZE

Total Area : **4,900,000 m²**
 Covered Shop : 560,000 m²
 Open Working Area : 1,470,600 m²
 Total Outfitting Quay : 8,766.7 m



Offshore & Plants
Fabrication Yard

Dry Dock Cap. : Max. DWT

Floating Dock Cap. : Lifting Capacity

	DRY DOCKS		HEAVY ZONE		FLOATING DOCKS				FLOATING CRANES
	No.1	No. 2	G1	G2	RD-3	RD-4	RD-5	L/B	
Capacity (ton)	1,000,000	630,000	-	-	80,000	120,000	150,000	26,000	2 x 3,600 tons
Length(m)	529	540	320	313.5	336	408	408	221.5	
Width(m)	131	81	80	205	59.2	66.6	68.2	47.9	
Depth(m)	14.5	14.5	-	-	21.0	23.5	25.3	20.5	
Crane	G1 x 900 tons J1 x 200 tons J4 x 50 tons T1 x 60 tons	G1 x 900 tons J4 x 60 tons T1 x 70 tons	G1 x 900 tons	G1 x 900 tons	J 2 x 35 tons	J 2 x 50 tons	J2 X 50 tons	J1 x 50 tons	

- ① Drydock 1 ④ RD-3 ⑦ Launching Barge
- ② Drydock 2 ⑤ RD-4 ⑧ Floating Crane
- ③ Heavy Zone ⑥ RD-5

PERFORMANCE

(As of Jan 2015)

PRODUCTS	NO	PRODUCTS	NO
DRILLSHIP	17	FIXED PLATFORM	27
SEMI-SUBMERSIBLE RIG	21	FPSO	5
JACK-UP RIG	2	TLP	4
DRILLING BARGE	1	FPU	3
OSV/WTIV	6	MODULAR PLANTS	1

GRAND TOTAL

87 PROJECTS

Other Plant Projects are Listed on Page 46-51



DRILLSHIPS

H.N.	Client	Rig name	Class	Design	Description	Delivery (M.Y.)
3501	Transocean	Discoverer Clear Leader	DNV	Enhanced Enterprise-Class Drillship	L x B (Deck) : 835' x 125' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 12,000'	Feb. 09
3502	Transocean	Discoverer Americas	DNV	Enhanced Enterprise-Class Drillship	L x B (Deck) : 835' x 125' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 12,000'	Mar. 09
3503	Transocean	Discoverer Inspiration	DNV	Enhanced Enterprise-Class Drillship	L x B (Deck) : 835' x 125' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 12,000'	Oct. 09
3504	Transocean	Discoverer Luanda	DNV	Enhanced Enterprise-Class Drillship	L x B (Deck) : 835' x 125' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 12,000'	Mar.10
3505	Transocean	Discoverer India	DNV	Enhanced Enterprise-Class Drillship	L x B (Deck) : 835' x 125' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 12,000'	Aug.10
3601	Vantage	Platinum Explorer	ABS	DSME 10,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 10,000'	Nov. 10
3603	Odebrecht	Norbe VIII	ABS	DSME 10,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 10,000'	Mar. 11
3604	Odebrecht	Norbe IX	ABS	DSME 10,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 10,000'	May. 11
3605	Petroserv	Carolina	ABS	DSME 10,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 10,000'	Aug. 11
3602	Vantage	Titanium Explorer	ABS	DSME 12,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 12,000'	Apr. 12
3609	Odebrecht	ODN I	DNV	DSME 10,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 10,000'	Apr. 12
3610	Odebrecht	ODN II	DNV	DSME 10,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 10,000'	Jun. 12

DRILLSHIP

H.N.	Client	Rig name	Class	Design	Description	Delivery (M.Y.)
3615	Vantage	Tungsten Explorer	ABS	DSME 10,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 20,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 10,000'	Jul. 11
3614	Atwood	Atwood Drillship	DNV	DSME 12,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 23,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 12,000'	Dec. 13
3612	Transocean	Transocean Drillship (Aker)	DNV	DSME 12,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 23,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 12,000'	Feb. 14
3613	Transocean	Transocean Drillship (Aker)	DNV	DSME 12,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 23,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 12,000'	Mar. 14
3617	Atwood	Atwood Drillship	DNV	DSME 12,000 Ultra Deepwater Drillship	L x B (Deck) : 781' x 138' Var. Deck Load : 23,000 MT Max. Drilling Depth : 40,000' Max. Water Depth : 12,000'	Aug. 14

SEMI-SUBMERSIBLE RIG

H.N.	Client	Rig name	Class	Design	Description	Delivery (M.Y.)
3001	Reading & Bates Exploration Co.	Jim Cunningham	ABS	F&G L-750	L x B (Deck) : 230' x 202' Var. Deck Load : 4,000 MT Max. Drilling Depth : 25,000' Max. Water Depth : 1,500'	Dec. 82
3002	Reading & Bates Exploration Co.	M.G. Hulme JR.	ABS	F&G L-750	L x B (Deck) : 230' x 202' Var. Deck Load : 4,000 MT Max. Drilling Depth : 25,000' Max. Water Depth : 1,500'	Apr. 83
3003	Santa Fe International Services Inc.	Rig 135	ABS	F&G L-907	L x B (Deck) : 230' x 202' Var. Deck Load : 4,000 MT Max. Drilling Depth : 25,000' Max. Water Depth : 1,500'	Jun. 83
3007	Houlder Offshore Co., Ltd.	High Seas Driller	LR	F&G L-907	L x B (Deck) : 230' x 202' Var. Deck Load : 4,000 MT Max. Drilling Depth : 25,000' Max. Water Depth : 1,500'	Jul. 83
3006	Atlantic Drilling Co.	Benreoch	LR	F&G L-907	L x B (Deck) : 230' x 202' Var. Deck Load : 4,000 MT Max. Drilling Depth : 25,000' Max. Water Depth : 1,500'	Aug. 83
3004	Santa Fe International Services Inc.	Rig 140	ABS	F&G L-907	L x B (Deck) : 230' x 202' Var. Deck Load : 4,000 MT Max. Drilling Depth : 25,000' Max. Water Depth : 1,500'	Dec. 83
3008	Korea Drilling Co., Ltd.	Doo Sung	KR, ABS	F&G L-907	L x B (Deck) : 230' x 202' Var. Deck Load : 4,000 MT Max. Drilling Depth : 25,000' Max. Water Depth : 1,500'	May. 84

SEMI-SUBMERSIBLE RIG

H.N.	Client	Rig name	Class	Design	Description	Delivery (M.Y.)
3009	A/S Smedvig Drilling Co.	West Vision	DNV	ME-5000	L x B (Deck) : 267' x 259' Var. Deck Load : 5,000 MT Max. Drilling Depth : 25,000' Max. Water Depth : 6,000' (Dyn.) Semi-Sub. Drilling & Production Rig	Dec. 86
3010	Sonat Offshore Drilling Inc.	Pratt Rather	DNV	GVA-4500	L x B (Deck) : 250' x 187' Var. Deck Load : 4,000 MT Max. Drilling Depth : 25,000' Max. Water Depth : 2,000'	Jan. 88
3011	Sonat Offshore Drilling Inc.	George Richardson	DNV	GVA-4500	L x B (Deck) : 250' x 187' Var. Deck Load : 4,000 MT Max. Drilling Depth : 25,000' Max. Water Depth : 2,000'	Oct. 88
3015	Petrodrill Seven inc.	Pride Carlos Walter	LR	Amethyst	L x B (Deck) : 240' x 159' Var. Deck Load : 3,500 MT Max. Drilling Depth : 25,000' Max. Water Depth : 5,000'	Dec. 00
3016	Petrodrill Six inc.	Pride Brazil	LR	Amethyst	L x B (Deck) : 240' x 159' Var. Deck Load : 3,500 MT Max. Drilling Depth : 25,000' Max. Water Depth : 5,000'	Feb. 01
3019	Seadrill	West Hercules	DNV	GVA 7500	L x B (Deck) : 382.5' x 317.2' Var. Deck Load : 7,500 MT Max. Drilling Depth : 32,000' Max. Water Depth : 10,000'	Oct. 08
3020	Seadrill	West Aquarius	DNV	GVA 7500	L x B (Deck) : 382.5' x 317.2' Var. Deck Load : 7,500 MT Max. Drilling Depth : 32,000' Max. Water Depth : 10,000'	Jan. 09
3023	Odfjell	Deepsea Atlantic	DNV	GVA 7500	L x B (Deck) : 386' x 317' Var. Deck Load : 7,500 MT Max. Drilling Depth : 35,000' Max. Water Depth : 10,000'	Feb. 09
3024	Petroserv	SSV Victoria	DNV	GVA 7500	L x B (Deck) : 386' x 317' Var. Deck Load : 8,500 MT Max. Drilling Depth : 35,000' Max. Water Depth : 10,000'	Sep.09
3025	Odfjell	Deepsea Stavanger	DNV	GVA 7500	L x B (Deck) : 389' x 334' Var. Deck Load : 7,500 MT Max. Drilling Depth : 35,000' Max. Water Depth : 10,000'	Jul.10
3026	Grupo R	Bicentenario	DNV	GVA 7500	L x B (Deck) : 391' x 317' Var. Deck Load : 9,700 MT Max. Drilling Depth : 35,000' Max. Water Depth : 10,000'	Feb.11
3027	Grupo R	La Muralla IV	DNV	GVA 7500	L x B (Deck) : 391' x 317' Var. Deck Load : 9,700 MT Max. Drilling Depth : 35,000' Max. Water Depth : 10,000'	Oct. 12
3028	Petroserv	SSV Catarina	DNV	GVA 7500	L x B (Deck) : 386' x 317' Var. Deck Load : 8,500 MT Max. Drilling Depth : 35,000' Max. Water Depth : 10,000'	Nov. 12
3033	Odfjell	Deepsea Aberdeen	DNV	GVA 7500	L x B (Deck) : 389' x 334' Var. Deck Load : 7,500 MT Max. Drilling Depth : 35,000' Max. Water Depth : 10,000'	Nov. 14

JACK UP DRILLING RIGS

H.N.	Client	Rig Name	Class	Design	Description	Delivery (M.Y.)
3301	Dual Offshore Co.	Rig 38	ABS	F&G L-780 MOD II	L x B (Deck) : 180' x 175' Max. Drilling Depth : 20,000' Max. Water Depth : 300'	Feb. 83
3302	Dual Offshore Co.	Rig 42	ABS	F&G L-780 MOD II	L x B (Deck) : 180' x 175' Max. Drilling Depth : 20,000' Max. Water Depth : 300'	Apr. 83

DRILLING BARGE

H.N.	Client	Rig name	Class	Design	Description	Delivery (M.Y.)
3029	KC Kazakh Panama	Caspian Explorer	ABS / RMRS	F&G Design	L x B (Deck) : 100m x 40m F&G Design, Var. Deck Load : 6,000MT Max. Drilling Depth : 6,000m Max. Water Depth : 5.5m	Sep. 12

FIXED PLATFORMS

H.N.	Client	Project	Description	Work Scope	Delivery (M.Y.)
6004	EPMI	"Bekok-C" Gas Compression & Dehydration Platform	Deck Module-2 EA, Capa.-50MMSCFD Gas	EPC	Apr. 84
6005	Texaco	"Harvest-A" Jacket & Piles	Jacket & Piles, Water Depth : 670FT	EPC	Apr. 85
6006	EPMI	"Guntong-A" Production, Gas Compression & Dehydration Platform	Deck Module-10 EA, Capa.-92,300BPD Oil, 100MMSCFD Gas	EPC	Jun. 85
6003	Aramco	"Marjan" Gas Compression Platform	Jacket-3 EA, Deck Module-12 EA, Capa.-950MMSCFD Gas	EPC	Oct. 85
6009	Chevron	"Esther" Gas Production Platform	Deck Module-2 EA, Jacket-1 EA, Capa.-110MMSCFD Gas	EPC	Oct. 85
6002	Kuwait Oil Company	"Southern Gas Project" Gas Compression Platform	Jacket-8 EA, Deck Module-8 EA, Bridge-3 EA, Capa.-110 MMSCFD Gas	EPC	Dec. 85
6007	Agip	"DP3" & "DP4" Drilling & Production Platforms	Deck Module-16 EA, Capa.-150,000BPD Oil, 110MMSCFD Gas, 250 Persons	EPC	Jun. 87
6010	ADNOC	"N-ACPT" Accommodation Platform (TURN-KEY)	Deck & Substructure-1 EA, Capa.-240 Persons	EPC	Apr. 89
6012	ONGC	"ICG" Gas Compression Platform	Deck Module-2 EA, Bridge-4 EA, Capa.-162MMSCFD Gas	EPC	Dec. 89
6014	BHP	"Mooring Riser" Griffin FPSO	Mooring Riser Column, 6MØX 97M	EPC	Sep. 93
6017	Phillips	Xijiang FPSO Process Skids	Process Skid-5 EA	EPC	Feb. 94
6013	ONGC	SHG Gas Process Platform (TURN-KEY)	Process Platform-1 EA, HP/LP Flare Platform-1 EA, Bridge-3 EA, Capa.-15MMSCMD Gas Subsea Pipeline-198 km	EPCI	Apr. 94
6015	ONGC	SHW Water Injection Platform (TURN-KEY)	Water Injection Platform-1 EA, Capa.-320,000BWPD	EPCI	Dec. 94
6016	Phillips	Xijiang 24-3/30-2 Production Platforms	Deck Module 2 EA, Capa.-46,000 BOPD/EACH	EPC	Apr. 94 / Mar. 95
6019	Phillips	Xijiang XJ-2 Drill Rig Modules	Module-5 EA	EPC	Apr. 95
6021	Chevron	South Nemba & Lomba Development	Production Platform-1EA, Drill/Well Platform-1EA, Flare Platform-1EA	EPCI	Apr. 98
6023	Marathon	Sakhalin II Project, PA Field Development	Process Module, Modification of Molikpaq Offshore Drilling Unit	EPC	Aug. 98
6027	Sakhalin Energy Investment	Sakhalin II Project, Process Module	Process Module, Modification of Molikpaq Offshore Drilling Unit	EPC	Oct. 98
6028	Chevron	North Nemba & Lomba Development (I)	Platform	EPCI	Mar. 00
6032	Chevron	Kungulo Water Injection Platform	Water Injection Platform Deck	EPCI	Apr. 00
6034	Chevron	North Nemba Field Development	Production Platform Deck	EPCI	May. 01
6037	Chevron	Sanha Condensate	Fixed Platforms (3units)	EPCI	Nov. 03
6040	Chevron	Benguela-Belize	Compliant Piled Tower Platform	EPCI	Oct. 05
6042	ExxonMobil	Sable Platform	Compression P/F Topsides & Bridge	EPCI	Dec.06
6044	Chevron	Tombua Landana	Drilling and Production Platform (CPT)	EPCI	Feb. 10
6046	ExxonMobil	Arkutun Dagi Fixed Platform	GBS (Gravity Base Structure) Topsides	EPCI	Sep. 14
6051	Chevron	South Nemba Fixed Platform	Fixed Platform	EPCI	Oct. 14

FPSO

H.N.	Type	Client	Project	Description	Work Scope	Delivery (M.Y.)
6031	FPSO	Halliburton Canada Inc.	Terra Nova FPSO	FPSO Hull + Topside (Partial)	EPC	May. 00
6041	FPSO	Total	Dalia FPSO	FPSO Topside + Hull & Topside Integration	EPCI	Mar. 06
6043	FPSO	Chevron	Agbami FPSO	FPSO Hull & Topside EPCI	EPCI	Apr. 09
6045	FPSO	Total	Pazflor FPSO	FPSO Hull & Topside EPCI	EPCI	Feb. 12
6049	FPSO	Total	Clov FPSO	FPSO Hull & Topside EPCI	EPCI	Aug. 13

TLP

H.N.	Client	Project	Description	Work Scope	Delivery (M.Y.)
3017	Shell	Brutus TLP Hull	Ring Pontoon & Column	EPC	Jan. 01
6035	ExxonMobil	Kizomba A	Tension Leg Platform (Hull)	EPC	Dec. 02
6039	ExxonMobil	Kizomba B	Extended Tension Leg Platform (Hull & Topside EPCI)	EPCI	Mar. 05
6050	Chevron	Chevron Big Foot ETLF Project	Extended Tension Leg Platform (Hull)	EPC	Feb. 13

FPU

H.N.	Client	Project	Description	Work Scope	Delivery (M.Y.)
6025	Statoil / Kvaerner	Asgard B	Semi-submersible Ring Pontoon & Column	EPC	Sep. 99
6036	BP	Thunder Horse	Semi-Submersible Production Drilling and Quarters Facilities (Overall L x Overall W x Deck H : 160m x 125m x 58m)	EPC	Jul. 04
6038	BP	Atlantis	Semi-Submersible Production Facilities (Overall L x Overall W x Deck H : 129m x 119m x 52m)	EPC	May. 05

MODULAR PLANT

H.N.	Client	Project	Description	Work Scope	Delivery (M.Y.)
6048	ExxonMobil	Chayvo	Onshore Processing Facility (OPF)	EPC	Mar. 12

OSV/WTIV

H.N.	Client	Vessel Name	Description	Work Scope	Delivery (M.Y.)
3303	RWE Innogy	Victoria Mathias	Self Propelled Self Elevating Platform	EPC	Aug. 11
3304	RWE Innogy	Friedrich Ernestine	Self Propelled Self Elevating Platform	EPC	Sep. 11
3402	Heerema	Aegir	Pipelay and Contraction Vessel	EPCC	Dec. 12
3403	Technip/Odebrecht	TOP Coral Do Atlantico	Pipe Laying Support Vessel	EPC	Jul. 14
3404	Technip/Odebrecht	TOP Estrela Do Mar	Pipe Laying Support Vessel	EPC	Sep. 14
3401	Allseas	Pieter Schelte	Platform Decommissioning and Pipelay Vessel	EPCC	Nov. 14

PLANT

Client	Project	Description	Delivery (M.Y.)
ARCO Alaska, Inc.	Barge Mounted Seawater Treating Plant	Capa. : 2.2 MBPD Size : 610FT x 150FT x 115FT Weight : 23,200 MT	Jul. 83
Al-Jubail Petrochemical Co.	Linear Low Density Polyethylene Plant	Capa. 280,000 MT / Year No. of Module : 28 EA Weight : 11,800 MT	Oct. 83
ARCO Alaska, Inc.	NGL/EOR Air Cooler Modules	No. of Module : 6 EA Weight : 5,200 MT	Jul. 86
BS & B Niigata Engineering Co.	Gas Dehydration Skids	Max. Shell Thk : 150MM Weight : 300 MT	Dec. 89
Electricity Generating Authority of Thailand	Khanom Barge Mounted	75 MW x 1 Unit (300T/H x 125K x 515°C)	Jan. 90
Saline Water Conversion Corp.	SWRO Desalination Plant	Capa. : 10 MIGD x 1 Unit	Jul. 91

POWER PLANT

Client	Project	Description	Delivery (M.Y.)
Korea Electric Power Corp.	Ulsan Oil Firing Thermal Power Plant (Unit 4,5,6)	400 MW x 3 Units	Mar. 81
Korea Electric Power Corp.	Ulsan Combined Cycle Power Plant	55 MW x 4 Units, 110 MW x 1	May. 81
Industrial Sites & Water Resources Development Corp.	Choong Ju Hydro Power Station (Vertical Francis Type)	100 MW x 4 Units	Jul. 85
Industrial Sites & Water Resources Development Corp.	Hapcheon Hydro Power Station (Bulb Type)	0.65 MW x 2 Units	Dec. 87
Korea Water Resources Corp.	Juam Hydro Power Station (Vertical Francis Type)	12 MW x 2 Units	Sep. 89
Electricity Generating Authority of Thailand	Khanom Barge Mounted Power Plant	75 MW x 1 Unit (300T/H x 125K x 515°C)	Jan. 90
Korea Electric Power Corp.	Seo-Incheon Combined Cycle Power Plant	940 MW x 2 Units	Dec. 92
Korea Midland Power Co., Ltd.	Yang -Yang Hydro Pumped Power Station	Steel Penstock	May. 04
Korea Electric Power Plant	Ulchin Nuclear Power Plant Unit 5&6	ASME Shop Fabricated Piping	Jun. 05

CO - GENERATION PLANT

Client	Project	Description	Unit	Delivery (M.Y.)
Petrochemical Support Complex	Oil Fired Co-Gen. Plant	91T/H x 85K x 495°C	4	Jul. 71
Pohang Iron & Steel Co.	Oil Fired Co-Gen. Plant	80T/H x 70K x 450°C	3	May. 73
HanIl Synthetic Fiber Inc., Co.	Oil Fired Co-Gen. Plant	60T/H x 45K x 450°C	3	Jun. 74
Pohang Iron & Steel Co.	Oil Fired Co-Gen. Plant	80T/H x 60K x 450°C	1	Dec. 75
Pohang Iron & Steel Co.	Oil Fired Co-Gen. Plant	125T/H x 95K x 505°C	2	Mar. 76
TongYang Polyester Co.	Oil Fired Co-Gen. Plant	50T/H x 48K x 430°C	2	Oct. 76
SamYang Co.	Oil Fired Co-Gen. Plant	84T/H x 85K x 495°C	1	Sep. 77
Petro Chemical Support Complex	Oil Fired Co-Gen. Plant	93T/H x 80K x 480°C	1	Jun. 78
Hanju Corp.	Oil Fired Co-Gen. Plant	60T/H x 30K x 350°C	1	Jun. 80
Korea Steel Chemical Co.	Off-Gas & Oil Fired Co-Gen. Plant	40T/H x 65K x 485°C	1	Dec. 80
Ceylon Petroleum Corp.	Oil Fired Co-Gen. Plant	45T/H x 42K x 380°C	1	Aug. 84

CO - GENERATION PLANT

Client	Project	Description	Unit	Delivery (M.Y.)
Pohang Iron & Steel Co.	Waste Heat Recovery Boiler Plant	40T/H x 48K x 450°C	1	Sep. 86
Daesung Lumber Inc., Ltd.	Wood Chip Fired Co-Gen. Plant	57T/H x 94K x 505°C	1	Dec. 88
Korea Steel Chemical Co.	Off-Gas & Oil Fired Co-Gen. Plant	54T/H x 64K x 490°C	1	Feb. 89
Pusan Dyeing Inc., Complex	Coal Fired Co-Gen. Plant (CFBC Type)	80T/H x 85K x 495°C	2	Sep. 89
DongHae Pulp Co., Ltd.	Chemical Recovery Boiler Co-Gen. Plant	173.5T/H x 84K x 450°C	1	Mar. 92
Daelim Ind. Co., Ltd.	Off Gas & Oil Fired Co-Gen. Plant	110T/H x 42K x 380°C	1	Sep. 96
Korea District Heating Corp.	Oil Fired Co-Generation Plant	176T/H x 106K x 535°C x 44MW	1	Mar. 97
Korea Energy Management Corp.	Gas Fired Boiler for Co-Gen. Plant	110T/H x 12K x 191°C	1	Oct. 97
AnSan Urban Development Inc.	Oil Fired Co-Gen. Plant	260T/H x 106K x 535°C x 60MW	1	Oct. 01

REFUSE INCINERATION PLANT

Client	Project	Description	Unit	Delivery (M.Y.)
Seoul City (MokDong #1)	Refuse Incineration Plant (Stoker Type)	20.3T/H x 14K x 197.4°C	1	Dec. 86
Singapore Government/Mitsubishi	Refuse Incineration Plant (Stoker Type)	51T/H x 43K x 370°C	2	Dec. 90
Daegu City	Refuse Incineration Plant (Stoker Type)	27.6T/H x 18K x 209°C	1	Mar. 92
Korea Land Development Corp.	Refuse Incineration Plant (Stoker Type)	25.6T/H x 20K x 214°C	1	May. 93
Bucheon City	Refuse Incineration Plant (Stoker Type)	27T/H x 18K x 209°C	1	Dec. 94
Seoul City (MokDong #2, #3)	Refuse Incineration Plant (Stoker Type)	27T/H x 16K x 204°C	2	Apr. 95
Kwangju City(Sangmudae)	Refuse Incineration Plant (Stoker Type)	26.3T/H x 19K x 245°C (400TPD)	2	Aug. 97
Daegu City	Refuse Incineration Plant (Stoker Type)	29.9T/H x 18K x 203.4°C x 44MW	2	Dec. 97

CHEMICAL PROCESS EQUIPMENT

Client	Project	Description	Unit	Weight (TON)	Delivery (M.Y.)
Korea Petroleum Development Corp.	T-1 Tank Terminal Plant	CTS Crude Oil Storage Tank - Double Deck FRT : 86M(D) x 22M(H) x 2,082 Tons	4	8,328	Mar. 82
Honam Ethylene Co./Korea	Styrene Monomer Plant	Recycle Column : 4.05M(D) x 65.7M(L)	1	202	May. 82
Korea Petroleum Development Corp.	U-2 Terminal Plant	Single Point Mooring Buoy 12.5M(D) x 4.3M(H) Anchor Chain (37/8") x 6 Line	1	-	Feb. 85
Samhwa Chemical Co./Korea	Sea Water Magnesia Clinker Plant	- Rotary Kiln : 2.7M(D) x 75M(L) - Rotary Dryer : 2.4M(D) x 45m(L) - Under Cooler : 2.0M(D) x 21M(L)	3 2 3	515.6(turn key) 194.2(turn key) 122.3(turn key)	May. 87
Daelim Industries/Korea	250,000 MTA Ethylene Plant	Heavy & Tall Tower Package - Quench Tower : 12.0/5.3 M(D) x 36.4M(L) x 240 Tons	11	1,099	Dec. 87
Oil & Natural Gas Commission/India	Gas Compression Platform/ Dehydration Modules Project	Heavy & Tall Tower - Glycol Contactor Tower : 100MM(T) x 1.6(D) x 7.5M(L)	6	201	Nov. 89
Korea Petrochemical Ind. Co.	250,000 MTA Ethylene Plant	Heavy & Tall Tower Package - Propylene Fractionator : 4.4M(D) x 98.7(L) x 443 Tons	17	1,436	Aug. 90
Honam Petrochemical Corp./Korea	350,000 MTA Ethylene Plant	Heavy & Tall Tower Package - Propylene Fractionator : 4.8M(D) x 98.6M(L) x 488 Tons	9	2,290	Dec. 90
Honam Petrochemical Corp./Korea	HAR Project	Heat Exchanger	49	452	Dec. 91
Kamyra, AB/Sweden	Donghae Pulp Mill Expansion Plant	Stainless Steel Clad Tower & Vessel - Digester : 6.0/2.8M(D) x 49.2M(L) x 572.7 Tons	5	1,018	Dec. 91

CHEMICAL PROCESS EQUIPMENT

Client	Project	Description	Unit	Weight (TON)	Delivery (M.Y.)
Hanyang Chemical Corp./Korea	Yeochun Tank Terminal	Naptha / Gas Oil Storage Tank : 51M(D) x 28M(H) x 1,180 Tons	4	4,720	Aug. 92
Oil & Natural Gas Commission/India	SHG Gas Process Complex Project	Heavy & Tall Tower - Glycol Contactor Tower : 178MM(T) x 2.6M(D) x 7.6M(L) - Glycol Discharge Scrubber : 144MM(T) x 2.2M(D) x 2.5M(L)	4	343	Aug. 93
Thai Petrochemical Industry Co./Thailand	TPI Splitter Plant Phase II Project	Reactor Package for CCR unit - Hydrotreater Reactor : 32 + 2MM(T) x 2.7M(D) x 4.8M(L) A387-11 CL2 + SS321 Clad	8	150	Apr. 94
Kohap Petrochemical Corp./Korea	No.2 P-Xylene Plant	Big Tower - Raffinate Column : 20MM(T) x 7.0M(D) x 53.2M(L)	4	650	Jul. 95
Yukong Ltd./Korea	FCC Plant	Tall Tower & Hopper - Fresh Catalyst Storage Hopper : 27MM(T) x 6.7M(D) x 23.8M(L)	13	966	Nov. 95
Hanwha Chemical Corp./Korea	S/F Project	Naptha Gas/Oil Storage Tank : 51M(D) x 28M(H) x 1,180 Tons Floating Roof Type	1	1,180	Nov. 95
Hanwha Chemical Corp./Korea	S/F Project	LP Depropanizer : 16~28MM(T) x 1.7M(D) x 40.3M(L)	1	65	May. 96
Hanwha Chemical Corp./Korea	Octanol Plant	Tower Package - N/I BAL Tower : 15MM(T) x 3.7M(D) x 46M(L)	14	311	Dec. 96
ABB Lummus Crest Mauritius/Netherlands	Vadinar Oil Refinery Plant (Essar Oil Ltd./India)	Big Tower, Column, Reactor & Vessel - Coude Column : 35MM(T) x 8.5M(D) x 90.6M(L) - 650 TONS	87	3,562	May. 98
Bechtel Ltd./U.K	Reliance Jamnagar Complex (Reliance Petroleum Ltd./India)	Big Tower & Vessel - C3 Splitter : 56 ~ 72MM(T) x 7.5M(D) x 82.5M(L) - 1,310 TONS	63	9,957	Jul. 98
SK Engineering & Construction Ltd./Korea	PEMEX/Cadereyta Refinery Plant	Heavy Reactor & Tower - 151 + 3MM(T) x 4.3M(D) x 24.5M(L) (A387 - 22CL.2 + TP347 Overlay) - 493.5 TONS	8	1,686	Apr. 99
Formosa Heavy Industries Corp./Taiwan, R.O.C.	Formosa Olefins II Complex Plant	Earth Covered Tanks(3,000m ³) - 37.4MM(T) x 7.4M(D) x 67.068M(L) (A537CL.2) - 589.0 TONS	9	4,209	May. 99
Hitachi Zosen Corporation	URFCC Reactor & Regenerator (TEC/Brazil Petrobras REFAP Refinery Project)	-100MM(T) x 14.2M(D) x 35.8M(L) (A516G 60) - 810 TONS	24	1,075	Nov. 02

*Materials : All kind of carbon steel, killed carbon steel, low alloy steel, high alloy steel, stainless steel, non-ferrous metal and so on.

MATERIAL HANDLING FACILITIES

Client	Project	Description	Location	Delivery (M.Y.)
Daewoo	900 Ton Goliath Crane 1 Set	- Capa. : 900 Ton - Type : Gantry - Lifting Height : 91.4M	Okpo, Korea	May. 80
Daewoo	Level Luffing Crane 1 Set	- Capa. : 200 Ton x 57M - Type : JIB	Okpo, Korea	May. 80
Korea Maritime & Port Administration	400 T/H Unloader 1 Set	- Capa. : 400 Ton / H - Type : Level Luffing Type - Handling : Coal	Mok-po Port, Korea	Mar. 84
Daewoo	450 Ton Goliath Crane 1 Set	- Capa. : 450 Ton - Type : Gantry - Lifting Height : 91.4M	Okpo, Korea	Jul. 84
John T.Hepburn Ltd. (Canada)	Overhead Ladle Crane 1 Set	- Capa. : 480 /60 Ton - Type : E.O.T - Span : 17.4M	IPSCO Steel Mill Plant, Canada	Nov. 85
OSROK	Jib Crane 3 Sets	- Capa. : 13.5 Ton - Type : Self Climbing - Out Reach : 75M	Hap-Cheon Multi Purpose Dam, Korea	Aug. 86
POSCO	2,000T / H Unloader 3 Sets	- Capa. : 2,000T/H - Type : Bridge Travelling / Grab Trolley - Handling : Iron-Ore & Coal	Kwang-Yang, Korea	May. 87
POSCO	2,000T / H Shiploader 1 Set	- Capa. : 2,000T/H - Type : Boom Slewing & Telescopic Chute - Handling : Coal/Limestone	Kwang-Yang, Korea	May. 87
POSCO	500T / H Shipunloader 1 Set	- Capa. : 500T/H - Type : Level Luffing Type - Handling : Limestone / Manganese / Ore	Kwang-Yang, Korea	May. 87
TongYang Cement Corp.	1,000T / H Shiploader 1 Set	- Capa. : 1,000T/H - Type : Boom Hoisting & Telescopic Chute - Handling : Cement/Clinker	Dong-Hae Port, Korea	Jan. 92
Hanbo Steel Construction Co., Ltd.	25Ton Level Luffing Crane 1 Set	- Capa. : 25Ton - Type : Double Link Type - Span : 11M - Handling : Scrap	A-San Port, Korea	May. 96
Hanbo Steel Construction Co., Ltd.	35Ton Level Luffing	- Capa. : 35 Ton - Type : Double Link Type - Span : 11M - Handling : Scrap, Steel Plate	A-San Port, Korea	May. 96
Korea Container Terminal Authority	Crane 1 Set / Container Crane 2 Sets	- Capa. : 40.6 Ton - Type : Post Panamax (ISO 20'/40')	Shin Sun Dae Port, Pusan, Korea	Jul. 96
Korea Container Terminal Authority	Container Crane 2 Sets	- Capa. : 30.5 Ton - Type : Post Panamax (ISO 20'/40')	Ja Sung Dae Port, Pusan, Korea	Sep. 96
Hanbo Steel Construction Co., Ltd.	750TH/R Level Luffing Crane 2 Sets	- Capa. : 750Ton / HR (Coal & Iron Ore) 43Ton / HR (Scrap & Coil) - Type : Double Link Type L.L.C - Span : 11M - Handling : Coal, Iron Ore, Scrap, Coil	A-San Port, Korea Ja Sung Dae Port, Pusan, Korea	Feb. 97

MATERIAL HANDLING FACILITIES

Client	Project	Description	Location	Delivery (M.Y.)
Korea Container Terminal Authority	Container Crane 3 Sets	- Capa. : 40.6 Ton - Type : Post Panamax (ISO 20'/40'/45')	Shin Sun Dae Port, Pusan, Korea	Aug. 97
Korea Container Terminal Authority	Container Crane 2 Sets	- Capa. : 40.6 Ton - Type : Super Post Panamax (ISO 20'/40'/45')	A-San Port, Korea	Oct. 97
Konecranes VLC Corp.	Shipboard Gantry Cranes (Munckloaders) 8 Sets	- Lifting Capacity : 68 TON - Span : 30.74 M - Lifting Height : 27.0 M	Open Hatch Bulk Carrier for Wetfal-Larsen	Feb. 04
Konecranes VLC Corp.	Shipboard Gantry Cranes(Munckloaders) 8 Sets	- Lifting Capacity : 68 TON - Span : 30.74 M - Lifting Height : 27.0 M	Open Hatch Bulk Carrier for Wetfal-Larsen	Mar. 04
Hanbo Steel Construction	750 Ton/Hr/43 Ton Level Luffing Crane 2 Sets	- Capa : • Coal Iron ore 750 TON/HR • Scrap & Coil 43 TON - Type : Double Link Type - Out reach : 32.5M (SEA SIDE RAIL CENTER)	A-San Port, Korea	Mar. 04
Hanbo Steel Construction	750 Ton/Hr/43 Ton Level Luffing Crane 2 Sets	- Capa : • Coal Iron ore 750 TON/HR • Scrap & Coil 43 TON - Type : Double Link Type - Out reach : 32.5M (SEA SIDE RAIL CENTER)		Apr. 04

STEEL STRUCTURES

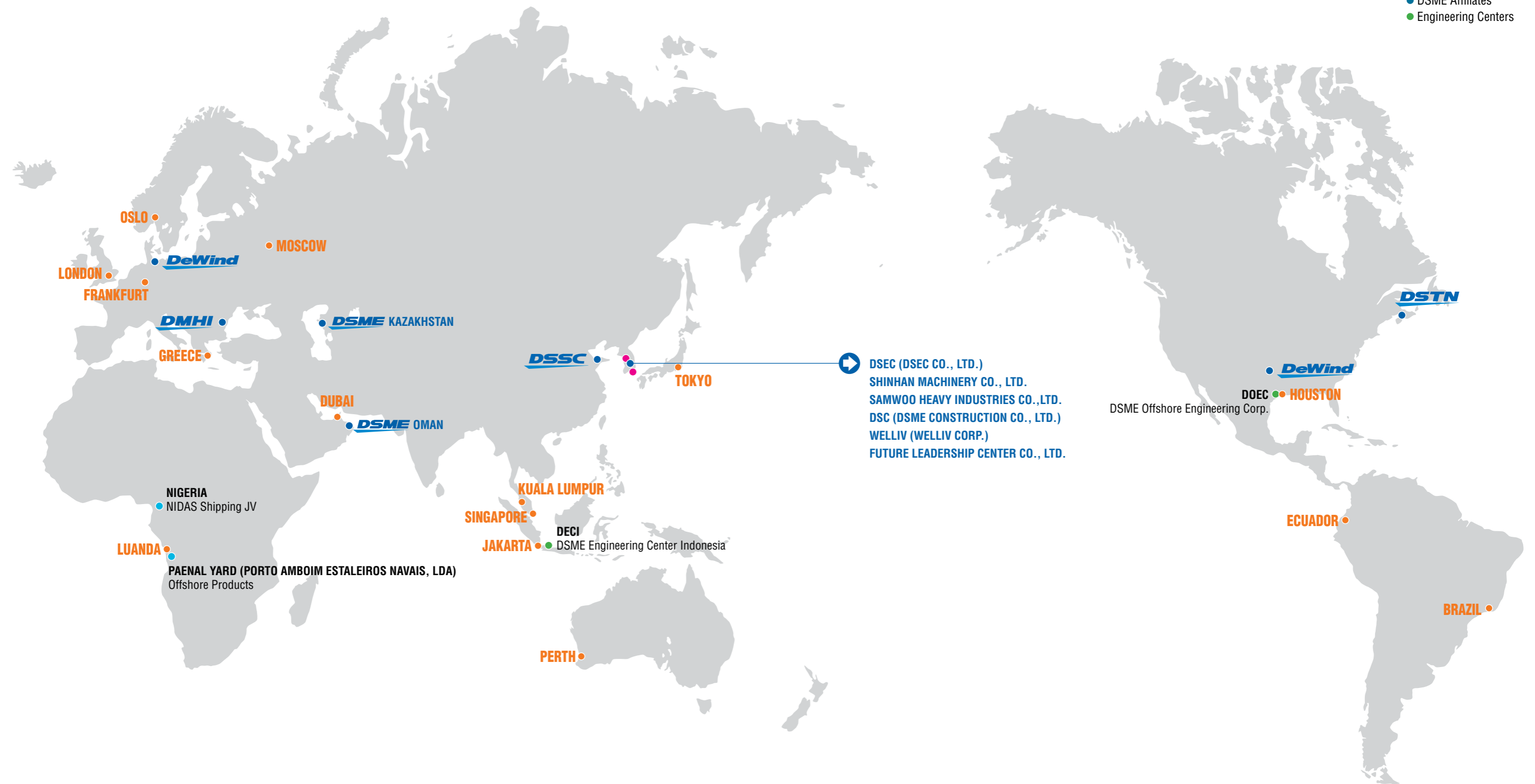
Client	Project	Description	Weight (TON)	Delivery (M.Y.)
State of Alaska Department	Kodiak Near Island Bridge Phase II	Girders, Cross Beam, Internal Bracing, Diagonals, Others	2,000	Apr. 84
EGYPT National Railway	New Railway Bridge Over Nile at Nag Hammadi	Girders, Cross Beam, Internal Bracing, Diagonals, Others	2,000	May. 84
Arco Alaska Co.	Module Super Frame & Structure (NGL/EOR)	Super Structure, Walkway	5,575	Oct. 84
Seoul City	Dongjak Bridge	Girders, Cross Beam, Steel Box, Others	30,000	Oct. 84
Sumitomo	Flat Rack Container	Pallet, Structure for transportation of pallet, etc	1,830	Apr. 92
Korea Electric Power Corp.	Hadong #1, 2 Power Plant	Built-up & Rolled Type Member, Deck Plate, Duct Support, Others	10,632	May. 95
Ministry of Construction of Korea	Changsun Steel Bridge	Girders, Cross Beam, Steel Box, Others	2,880	Sep. 95
Korea Electric Power Corp.	Taeon #3, 4 Power Plant	Built-up & Rolled Type Member, Deck Plate, Duct Support, Others	10,121	Nov. 95
Korea Electric Power Corp.	Hadong Thermal Power Plant Fuel Unloading Dock	Jacket & Pile-14EA Deck-21EA Catwalk-4EA	8,140	Dec. 95
Ministry of Construction of Korea	Mokhaeng Steel Bridge	Girders, Cross Beam, Steel Box, Others	3,800	Feb. 96
Korea Highway Corp.	Yangsan-Kupo Highway Steel Bridge	Girders, Cross Beam, Steel Box, Others	10,000	Jun. 96
Korea Electric Power Corp.	Samchunpo #5, 6 Power Plant	Built-up & Rolled Type Member, Deck Plate, Duct Support, Others	12,328	Dec. 96
Ministry of Construction of Korea	Okjung Steel Bridge	Girders, Cross Beam, Steel Box, Others	3,000	Jun. 97
Korea Electric Power Corp.	Wolsung Nuclear Power Plant Unit 3.4	Floor and Platform Beam & Struts, Bracing Columns, Plates, Girders, Others	17,185	Oct. 97

STEEL STRUCTURES

Client	Project	Description	Weight (TON)	Delivery (M.Y.)
Korea Electric Power Corp.	Hadong Thermal #3, 4 Power Plant Fuel Unloading Dock	Jacket & Pile Deck	4,000	Nov. 97
Office of Construction & Engineering of Seoul Metropolitan Government	Olympic Highway-Sueseo I.C Steel Bridge	Girders, Cross Beam, Pier, Steel Box, Others	38,325	Dec. 98
Ulsan City	Naewhang Steel Bridge	Girders, Cross Beam, Steel Box, Others	2,100	Dec. 98
Ministry of Construction of Korea	Taegu-Sunnam Steel Bridge	Girders, Cross Beam, Steel Box, Others	1,341	Dec. 98
Ministry of Construction of Korea	Youngju-Ohyuen Steel Bridge	Girders, Cross Beam, Steel Box, Others	682	Dec. 98
Ministry of Construction of Korea	Pangsung-Anjung Steel Bridge	Girders, Cross Beam, Steel Box, Others	2,333	Dec. 98
Pusan City	Kusue Steel Bridge	Girders, Cross Beam, Steel Box, Others	364	Jul. 99
Korea Highway Corp.	New Airport Highway #2 division	Girders, Cross Beam, Steel Box, Others	3,528	Nov. 99
Korea Highway Corp.	New Airport Highway #2 division	Girders, Cross Beam, Steel Box, Others	3,528	Nov. 99
Korea Highway Corp.	Seoul Loop Highway #17 division	Girders, Cross Beam, Steel Box, Others, Tropic Steel Deck	14,500	Dec. 99
Korea Highway Corp.	Seoul Loop Highway #17 division	Girders, Cross Beam, Steel Box & Ortho, Tropic Steel Deck	14,500	Dec. 99
Korea Highway Corp.	Seohae Grand Steel Bridge #2 division	Girders, Cross Beam, Steel Box, Others	7,245	Feb. 00
Ministry of Construction of Korea	Chungsong-Pachun Steel Bridge	Girders, Cross Beam, Steel Box, Others	3,049	Mar. 00
Ministry of Construction of Korea	Kangjin-Jangh' eung Steel Bridge	Girders, Cross Beam, Steel Box, Others	7,546	Apr. 00
Chengju City	Songjel-Yulrang Overpass Bridge	Girders, Cross Beam, Steel Box, Others	153	Mar. 01
Korea Highway Corp.	Wonju-Hongchun Highway #18 Division	Girders, Cross Beam, Steel Box, Others	2,352	May. 01
Ministry of Construction of Korea	Samchunpo-Chunpsun Steel Bridge	Arch, Plate Girders Cross Beam Others	5,033	Jun. 01
Ministry of Construction of Korea	Samchunpo-Changsun Steel Bridge	Arch, Plate Girders, Cross Beam, Others	5,033	Sep. 01
Chenan-Nonsan Highway Co.	Chenan-Nonsan Highway	Girders, Cross Beam, Steel Box, Others	5,058	Sep. 01
Seoul City	Kangbyunbuk Ro Steel bridge	Girders, Cross Beam, Trtho Tropic Steel Deck, Others	2,356	Sep. 01
Korea Express Railroad Co.	Kyungbu Express Railroad #8-2 Division	Plate Girder, Steel Box, Others	3,274	Sep. 01
Korea Highway Corp.	Taejun-Tongyoung Highway #8 Division	Girders, Cross Beam, Steel Box, Others	7,534	Nov. 01
Ministry of Construction of Korea	Ulchin-Jukbyun Steel Bridge	Girders, Cross Beam, Steel Box, Others	5,776	Nov. 01
Ministry of Construction of Korea	Gui-Chunju Steel Bridge	Girders, Cross Beam, Steel Box, Others	1,506	Nov. 01
Korea Express Railroad Co.	Kyungbu Express Railroad #9-3 Division	Plate Girder, Steel Box, Others	570	Dec. 01
Kwang-Ahn Grand Bridge Construction Bureau of Pusan Metropolitan Government	Kwang-Ahn Grand Steel Bridge	Girders, Cross Beam, Ortho Tropic Steel Deck, Others	41,229	Jun. 02
Ministry of Construction of Korea	Songkwang-Backwoon Steel Bridge	Girders, Cross Beam, Steel Box, Others	651	Dec. 02

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