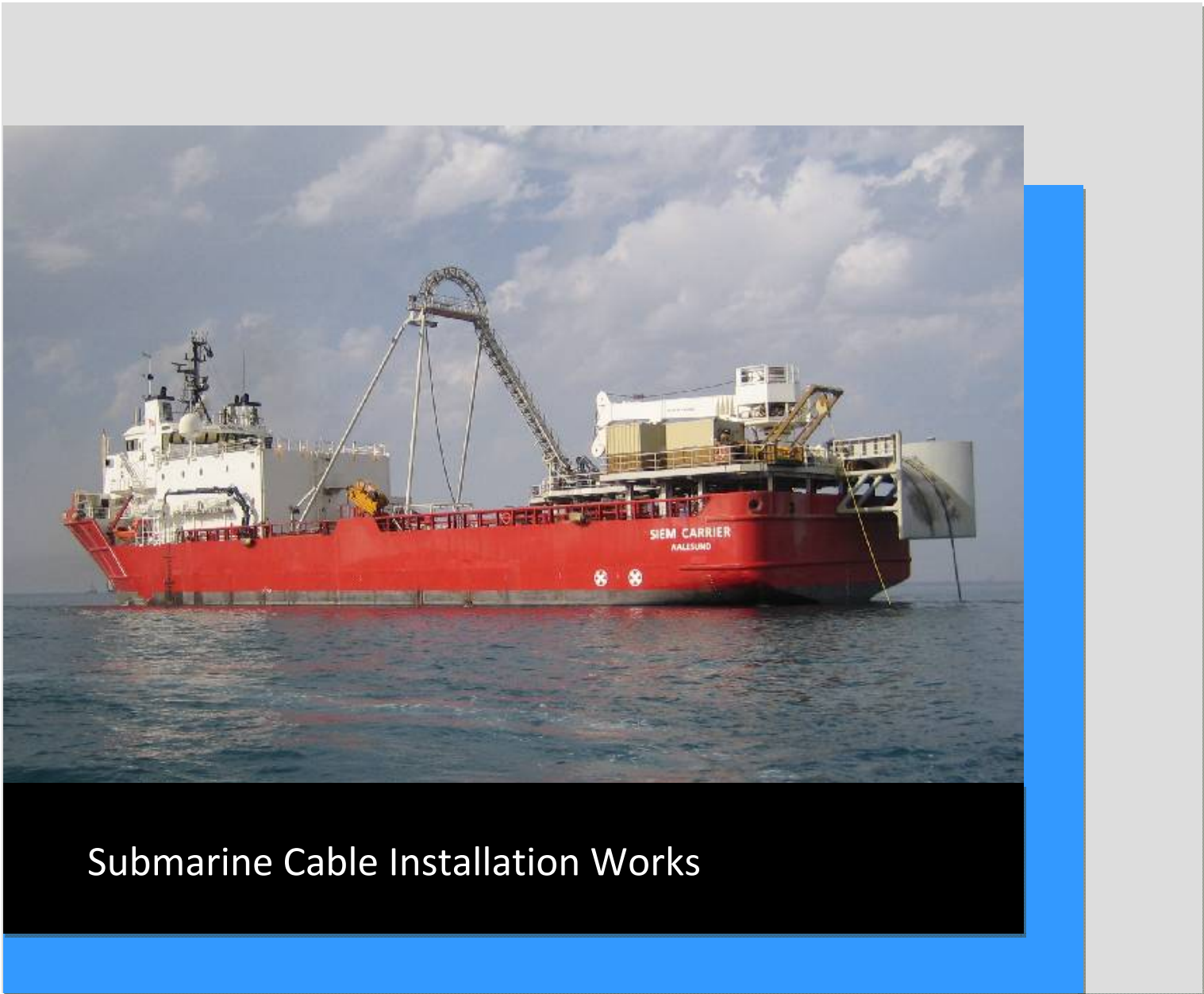


# EXPERIENCE RECORD



Submarine Cable Installation Works

## Experience Record - Submarine Cable Installation Works

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<b>2011</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Umm Shaif Gas Injection Facilities Project</b> Umm Shaif Field, Abu Dhabi (Persian Gulf) Abu Dhabi Marine Operating Company (ADMA-OPCO), UAE Hyundai Heavy Industries, South Korea Installation of 1x 1kV MVAC infield composite submarine cables incl. 2x J-tube pull-ins, 5x subsea crossing and the installation of 153x flexible concrete stabilisation mattresses 2 km
<b>2010-2011</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:	<b>Walney Offshore Wind Farm Project - Phase 1</b> Barrow-in-Furness, UK (Irish Sea) Dong Energy, Denmark Visser & Smit Marine Contracting, The Netherlands Supply of complete installation teams, incl. works manager, field engineers, deck supervisors and deck technicians for the installation of 33kV infield submarine composite cables
<b>2010</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:	<b>Ras Gas – Field Operations Project</b> North Field, Qatar (Persian Gulf) Ras Laffan Liquefied Natural Gas Co., Qatar Fugro Survey Middle East, Abu Dhabi/UAE ROV inspection and cleaning works on various platforms in line with a planned maintenance schedule
<b>2010</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:	<b>Ras Gas – Field Operations Project</b> North Field, Qatar (Persian Gulf) Ras Laffan Liquefied Natural Gas Co., Qatar RasGas Company, Qatar Repair of 1x 8kV MVAC infield submarine composite cable
<b>2009-2010</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Offshore Grid Interconnectivity – Power to ESP Project – Phase 2</b> Mumbai High South and North Fields (Indian Ocean) Oil and Natural Gas Corporation, India NaftoGaz India, India Installation of 17x 6.6kV MVAC infield composite submarine cables incl. 34x J-tube pull-ins and 172x subsea crossings 55 km
<b>2009-2010</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Offshore Grid Interconnectivity – Power to ESP Project – Phase 1</b> Mumbai High South and North Fields (Indian Ocean) Oil and Natural Gas Corporation, India NaftoGaz India, India Installation of 9x 11kV MVAC infield composite submarine cables incl. 18x J-tube pull-ins and 142x subsea crossings 43 km
<b>2009-2010</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:	<b>Offshore Grid Interconnectivity – Power to ESP Project</b> Mumbai High South and North Fields (Indian Ocean) Oil and Natural Gas Corporation, India NaftoGaz India, India Installation of 495x concrete mattresses in line with subsea crossings of existing field infrastructure

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<b>2009</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Pearl "Gas to Liquids" Project</b> North Field, Qatar (Persian Gulf) Shell Qatar, Qatar J. Ray McDermott Middle East, UAE Installation of 2x shore end and 1x infield fiber optic submarine cables incl. 2x shore pulls and 4x J-tube pull-ins 136 km
<b>2009</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:	<b>Ras Gas Field Development Project Phase 2</b> North Field, Qatar (Persian Gulf) Ras Laffan Liquefied Natural Gas Co., Qatar J. Ray McDermott Middle East, UAE Repair of 1x 8kV MVAC infield submarine composite cable
<b>2009</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Salman EPC-3 Offshore Project</b> Salman Field, Iran (Persian Gulf) National Iranian Oil Company, Iran Iranian Offshore Engineering and Construction Co. Iran Installation of 3x 11kV and 1x 1kV MVAC infield submarine composite cables incl. 8x J-tube pull-ins 16 km
<b>2009</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Qatargas 3 &amp; 4 Offshore Facilities Project</b> North Field, Qatar (Persian Gulf) Qatargas, Qatar J. Ray McDermott Middle East, UAE Installation of 2x electro-hydraulic control umbilical, 2x 13.8kV MVAC shore end and 2x 13.8kV MVAC infield submarine composite cables incl. 2x shore ends, 8x J-tube pull-ins and 2x subsea lay-downs 144 km
<b>2009</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Maersk Oil Qatar Block 5 Field Development Plan 2005</b> North Field, Qatar (Persian Gulf) Maersk Oil Qatar, Qatar National Petroleum Construction Company (NPCC), UAE Installation of 5x 15kV MVAC infield submarine composite cables incl. 10x J-tube pull-ins 57.5 km
<b>2009</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Ras Gas Field Development Project Phase 2</b> North Field, Qatar (Persian Gulf) Ras Laffan Liquefied Natural Gas Co., Qatar J. Ray McDermott Middle East, UAE Installation of 2x 8kV MVAC infield submarine composite cables incl. 4x J-tube pull-ins 62 km
<b>2008 - 2009</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:	<b>KJO Field Development Plan Phase 1</b> Ras Al-Khafji, Saudi Arabia (Persian Gulf) Al-Khafji Joint Operations (KJO) Enppi/PMS/Petrojet/Rawabi, Saudi Arabia Installation of 24x 5kV and 7x 36kV MVAC infield submarine composite cables incl. 62x J-tube pull-ins

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Total length: 53 km

**2008**

**Project:** KJO Field Development Plan Phase 1  
**Location:** Ras Al-Khafji, Saudi Arabia (Persian Gulf)  
**Operator:** Al-Khafji Joint Operations (KJO)  
**Main Contractor:** Enppi/PMS/Petrojet/Rawabi, Saudi Arabia  
**Scope:** Installation of 31x J-tube risers at existing platforms

**2008**

**Project:** Taurt LNG Train 1 Supply Project  
**Location:** East Nile Delta, Egypt (Mediterranean Sea)  
**Operator:** Gulf of Suez Petroleum Company (Gupco), Egypt  
**Scope:** Installation and post-lay trenching of 1x electro-hydraulic umbilical incl. 1x shore end and 1x subsea lay-down  
**Total length:** 68 km

**2007**

**Project:** Taurt LNG Train 1 Supply Project  
**Location:** East Nile Delta, Egypt (Mediterranean Sea)  
**Operator:** Gulf of Suez Petroleum Company (Gupco), Egypt  
**Scope:** Post-lay trenching of 1x 20" concrete-coated pipeline within the landfall area  
**Total length:** 4.5 km

**2007**

**Project:** Jasra – Umm Al Nassan Cable System  
**Location:** Bahrain (Persian Gulf)  
**Operator:** Ministry of Water and Electricity, Bahrain  
**Main Contractor:** ABB Power Technologies, Sweden  
**Scope:** Installation of 3x 66kV MVAC submarine composite cables, incl. 6x shore ends  
**Total length:** 9.75 km

**2007**

**Project:** Charter of CLB Coastal Spider  
**Location:** Jubail, Saudi Arabia (Persian Gulf)  
**Charterer:** Jan de Nul Saudi Arabia Co., Saudi Arabia  
**Scope:** Time charter of CLB Coastal Spider as offshore accommodation and support facility  
**Total period:** 5x months

**2007**

**Project:** Saqqara Field Development Project  
**Location:** Gulf of Suez, Egypt (Red Sea)  
**Operator:** Gulf of Suez Petroleum Company (Gupco), Egypt  
**Main Contractor:** Petroleum Marine Services (PMS), Egypt  
**Scope:** Installation of 1x electro-hydraulic control umbilical incl. 1x shore end and 1x J-tube pull-in  
**Total length:** 12.3 km

**2006**

**Project:** Ras Gas Field Development Project Phase 1 & 2  
**Location:** North Field, Qatar (Persian Gulf)  
**Operator:** Ras Laffan Liquefied Natural Gas Co. Ltd., Qatar  
**Main Contractor:** J. Ray McDermott Middle East, UAE  
**Scope:** Installation of 3x 8kV MVAC infield submarine composite cables incl. 6x J-tube pull-ins  
**Total length:** 74 km

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<b>2006</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Expansion of Offshore Loading Facilities</b> Al-Khafji, Saudi Arabia (Persian Gulf) Al-Khafji Joint Operations (KJO) McDermott Arabia Company, Saudi Arabia Installation of 1x 13.8kV MVAC submarine composite cable incl. 1x shore end and 1x J-tube pull-in 5.5 km
<b>2005 - 2006</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>G1-GS15 Field Development Project</b> Kakinda (Andalarevu), India Oil and Natural Gas Corporation (ONGC), India Clough Engineering, Australia Installation of 1x electro-hydraulic control umbilical incl. 1x shore end and 1x subsea lay-down 26 km
<b>2005</b>	<b>Project:</b> Location: Charterer: Scope:  Total period:	<b>Charter of CLB Coastal Spider</b> United Arab Emirates, Qatar, Bahrain, Saudi Arabia, Iran and Yemen LD TravOcean Middle East, UAE Time charter of CLB Coastal Spider as shore end cable installation barge 6x months
<b>2004 - 2005</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Al Futaisi Inter-Island Submarine Cable System</b> Abu Dhabi, UAE (Persian Gulf) Abu Dhabi Water and Electricity Authority, UAE Al Nasr Irrigation & Contracting, UAE Installation and post-lay trenching of 34x 11kV MVAC submarine composite cables incl. 68x shore ends 37 km
<b>2003 - 2004</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Arklow Bank Offshore Wind Farm Project</b> Arklow (Irish Sea) Airtricity, Ireland General Electric Wind Energy, Germany Installation and post-lay trenching of 1x shore-end and 6x infield submarine composite cables incl. 1x shore end and 13x J-tube pull-ins 21 km
<b>2003</b>	<b>Project:</b> Location: Operator: Main Contractor: Scope:  Total length:	<b>Ras Gas Field Development Project Phase II</b> Northfield, Qatar (Persian Gulf) Ras Laffan Liquefied Natural Gas Co. Ltd., Qatar J. Ray McDermott Middle East, UAE Installation of 3x 8kV MVAC infield submarine composite cables incl. 6x J-tube pull-ins 68 km
<b>2002</b>	<b>Project:</b> Location: Operator: Scope:	<b>Stokab Fiber Optic Cable System</b> Baltic Sea Stokab, Sweden Installation and trenching of 7x submarine fibre optic cables between the island of Gotland and the archipelago at Stockholm incl. 14x shore ends

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Total length: 360 km

**2002**      **Project:**            **Kattegat 2B Fiber Optic Cable Installation**  
Location:            Kattegat (Baltic Sea)  
Operator:            TeleDanmark, Denmark  
Scope:              Installation and trenching of 1x fibre optic submarine cable from Denmark to Sweden, incl. 2x shore ends  
Total length:        50 km

**2002**      **Project:**            **Cross Sound HVDC Submarine Interconnector**  
Location:            New Haven / New York, USA  
Operator:            Cross Sound Cable Company, USA  
Main Contractor:   ABB High Voltage Cables  
Scope:              Installation of 2x 40km power cable and 1x 40km fibre optic cable, incl. simultaneous shore landing of 3x cables and combined duct pull  
Total length:        120 km

**2002**      **Project:**            **Baltic Cable HVDC Submarine Cable Repair**  
Location:            Lübecker Bight, Baltic Sea  
Operator:            Baltic Cable, Sweden  
Main Contractor:   ABB High Voltage Cables, Sweden  
Scope:              Repair of 1x HVDC submarine cable

**2002**      **Project:**            **Mozambique Domestic Network System**  
Location:            Mozambique  
Operator:            Telecom de Mozambique, Mozambique  
Main Contractor:   Alcatel Contracting, Germany  
Scope:              Installation and trenching of 4x fibre optic submarine cables, incl. 4x pre-laid and 4x direct shore ends  
Total length:        955 km

**2001 - 2002**   **Project:**            **Arcos-1 Fiber Optic Cable System**  
Location:            Caribbean Sea  
Operator:            New World Network, BVI  
Main Contractor:   Norddeutsche Seekabel Werke (NSW), Germany  
Scope:              Installation and trenching of 4x fibre optic submarine cables linking a.o. Venezuela, Colombia, Costa Rica, Nicaragua and Honduras, incl. land based cable burial operations of shore ends and design of required equipment  
Total length:        1,340 km

**2001**      **Project:**            **Cayman North Sound Power Link**  
Location:            North Sound, Cayman Islands  
Operator:            Caribbean Utility Company, Cayman Islands  
Main Contractor:   ABB High Voltage Cables, Sweden  
Scope:              Installation of 2x HVAC power cables (ø 165mm, weight 48.5 kg/m) in a shallow and environmentally very sensitive area, incl. 800 m float-out of the cable through mangrove swamp area  
Total length:        22 km

**2000 - 2001**   **Project:**            **Kattegat 2b and 3 Fiber Optic Cable System**  
Location:            Kattegat (Baltic Sea)

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Operator: TeleDanmark, Denmark  
Scope: Installation and trenching of 2x fibre optic cable, incl. 4x shore ends  
Total length: 85 km

**2000**      **Project:**            **Lulu Island Submarine Cable Link**  
Location: Abu Dhabi, UAE (Persian Gulf)  
Operator: Abu Dhabi Water and Electricity Authority, UAE  
Main Contractor: Al Nasr Irrigation & Contracting, UAE  
Scope: Installation of 2x 4 HVAC cables and 2x 4 bundled pilot cables  
Total length: 1.2 km

**2000**      **Project:**            **Channel Islands HVAC Submarine Interconnector**  
Location: France-Jersey-Guernsey, Channel Islands  
Operator: Channel Islands Electricity Authority, Jersey  
Main Contractor: ABB High Voltage Cables, Sweden  
Scope: Installation and trenching of 2x HVAC cables and 2x fibre optic submarine cables incl. 8x shore ends  
Total length: 45 km

**2000**      **Project:**            **Isle of Man HVAC Submarine Interconnector**  
Location: Irish Sea, offshore Blackpool  
Operator: Max Electricity Authority, UK  
Main Contractor: Pirelli Cavi e Sistemi, Italy  
Scope: Installation and trenching of 1x combined HVAC and fibre optic submarine cable at the landfall location  
Total length: 17 km

**2000**      **Project:**            **Gedser - Warnemünde Fiber Optic Cable System**  
Location: Great Belt, Baltic Sea  
Operator: Great Northern Telegraph Company, Denmark  
Scope: Installation and trenching of 1x fibre optic submarine cable, incl. 2x shore ends  
Total length: 48 km

**2000**      **Project:**            **Sweden – Aland HVAC Submarine Interconnector**  
Location: Bothnian / Aland Sea (Baltic Sea)  
Operator: NK Energy, Finland  
Main Contractor: ABB High Voltage Cables, Sweden  
Scope: Installation and trenching of HVAC submarine cable incl. 2x shore ends  
Total length: 80 km

**2000**      **Project:**            **Baltic Cable HVDC Submarine Cable Repair**  
Location: Lübecker Bight, Baltic Sea  
Operator: Baltic Cable, Sweden  
Main Contractor: ABB High Voltage Cables, Sweden  
Scope: Repair of 1x HVDC submarine cable

**1999**      **Project:**            **ESAT-1 Fiber Optic Cable System**  
Location: Landsend, (Irish Sea)  
Operator: ESAT, UK  
Main Contractor: Pirelli Cavi e Sistemi, Italy  
Scope: Repair, installation and trenching of 1x fibre optic submarine incl. 2x

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Total length: joints connecting already installed cable sections  
40 km

**1998**

**Project:** SwePol HVDC Submarine Interconnector  
**Location:** Baltic Sea  
**Operator:** Vattenfall, Sweden  
**Main Contractor:** ABB High Voltage Cables, Sweden  
**Scope:** Installation and trenching of 3x 240 km submarine cables incl. 1x HVDC power cable (141 mm, weight 67.3 kg/m) and 2x bundled MCR cables (57 mm, weight 10.5 kg/m), incl. 4x shore ends  
**Total length:** 244 km