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OIL, GAS AND CHEMICALS

# Telecommunication

## References



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**ABB is a highly qualified telecommunications systems integrator, with over 30 years' experience and global capabilities in turnkey or standalone offshore, onshore and pipeline projects.**

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## **Connecting telecommunications safely, economically and without risk**

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ABB deliver complete, customized and integrated telecom solutions - from top to bottom – assuring safe, cost effective and on time project execution. We provide secure, reliable and flexible telecommunication solutions meeting all your operational needs - today and in the future.



Project Duration	Project Name	Owner/Operator	EPC/Client	End user country	Type	Description
2017-2020	BP Mad Dog	BP	SHI	US	Offshore Platform	Delivery of all Telecom systems, Site Supervision, commissioning
2016-2018	Sasol	Sasol	Sasol	US	Chemical plant	Delivery of all Telecom systems, Site Supervision, commissioning
2017-2018	Axiall	Lotte Axiall	CB&I / CTCI	US	Chemical plant	Delivery of all Telecom systems, Site Supervision, commissioning, Construction
2017-2018	Liwa Plastics	Orpic	CB&I / CTCI	Oman	Chemical plant	Delivery of all Telecom systems, and integration to Brownfield
2016-2026	TANAP	TANAP	Worley Parsons	Turkey	1850km Pipeline	Delivery of two Telecom systems to ABB UK main contract
2016-2026	TANAP	TANAP	Worley Parsons	Turkey	1850km Pipeline	Full EPC scope for the pipeline Telecoms, Security and SCADA systems
2016-2017	Al NASR	Adma Opco	NPCC	UAE	Offshore Platforms	Complete delivery of seven wellhead platforms
2015-2018	Cameron LNG	Cameron	CCJV	US	Gas processing plant	Complete Telecom systems for the plant
2015-2017	Al NASR	Adma Opco	HHI	UAE	Offshore Platforms	Complete delivery of six offshore platforms
2014-2016	Gina Krog	Statoil	DSME	Norway	Offshore Platform	Complete delivery and design of offshore platform
2013-2014	BGTT	BG		Trinidad & Tobago	Offshore Platform	Telecom Systems upgrade for offshore platform
2014-2017	Dow Gulfstream	Dow	Fluor	USA	Chemical plant	Complete Telecom systems for the plant
2013	Utsira Power Hub	Statoil		Norway	Offshore Platform	FEED for Telecom for a power hub platform in the North Sea
2013-2017	Aasta Hansteen	Statoil	HHI	Norway	Offshore Platform	Complete delivery and design of offshore SPAR platform
2013-2017	Mariner	Statoil	DSME	UK	Offshore Platform	Complete delivery and design of offshore platform
2013-2015	Western Isles	Dana Petroleum	Cosco, China	UK	Sevan FPSO	Sevan platform for operation in offshore UK sector
2013-2014	CBDC	Takreer	Samsung Engineering	UAE	Refinery	Design and delivery of CCTV system
2012-2015	Ruwais Sulphur Handeling Terminal - 2	Gasco	Techint	UAE	Chemical plant	Complete Telecom systems for the plant
2012-2015	Habshan sulphur Granulation Plant	Gasco	Dodsall	UAE	Chemical plant	Complete Telecom systems for the plant
2011-2015	Troll A TPC 3&4 Telecom	Gassco	ABB/ Statoil	Norway	Onshore Gas Plant	Supply and upgrade of relevant Telecom systems for the Troll TPC 3&4 Project
2011-2012	Seth	Petroble	Technomare	Egypt	Offshore Platform	Design and delivery ICSS and Telecom system
2011-2014	QGCLNG Upstream	"Queensland Gas Company/ British Gas"	"ABB/ KBR/ Worley Parsons/ Clough"	Australia	Onshore gas field and pipeline	Full delivery of Telecom systems

Systems and equipment	Services
CCTV	
PAGA/Siren/Party Paging	
Telephony/PABX/Hotline	
Transmission - Radio/Microwave	
Transmission - SDH/PDH/OTN/DWDM	
Transmission - Satellite/VSAT	
Network Mgt./Telecom Supervision	
UHF/Trunked/Tetra	
Radio dispatch	
Radio - Radio VHF/MF/HF	
Radio - Paging System/Crane Radio	
Intercom System/Driller's Intercom	
Aeronautical System - NBD/VHF AM	
GMDSS/DSC/SSAS/SAR/VDR	
Radar/RACON	
Personnel Tracking/Mustering/POB	
Intrusion Detection (FIDS, Radar)	
Access Control and Security	
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Site Acceptance Test	
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TELECOMMUNICATION REFERENCES



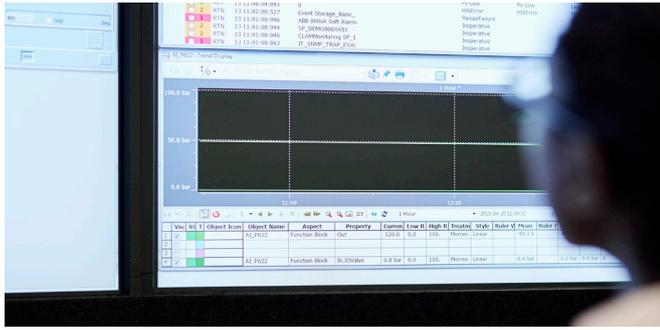
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2011-2015	QCLNG LNG Plant	"Queensland Gas Company/ British Gas"	"ABB/ KBR/ Worley Parsons/ Clough"	Australia	LNG Plant	Full delivery of Telecom systems
2011-2013	RRE Telecom	Takreer	Samsung, SK, GS, Daewoo E&C, Falcon	UAE	Refinery	Design and delivery of Telecom systems
2011-2013	RRE CCTV	Takreer	Samsung, SK, GS, Daewoo E&C, Falcon	UAE	Refinery	Design and delivery of CCTV system
2011	BS 132- SCADA Extension	Kuwait Oil Company	ABB KW	Kuwait	Booster Station	Design and delivery of SCADA/GIMS system extension
2011	BS 171- SCADA Extension	Kuwait Oil Compan	Saipem	Kuwait	Booster Station	Design and delivery of SCADA/GIMS system extention
2011	Visund	Statoil	ABB/Statoil	Norway	Platform	Implementation of WLAN Coverage
2011	Statfjord A/B/C Positioning System Upgrade	Statoil	ABB/Statoil	Norway	Platform	Upgrade of ARTEMIS positioning Systems
2011	Statfjord A/B/C MUX Upgrade	Statoil	ABB/Statoil	Norway	Platform	Upgrade of all first order MUX systems
2011	Gullfaks B/C Ignition Source Shut-Down	Statoil	ABB/Statoil	Norway	Platform	Design philosophy for shut-down of ignition sources for all non-ex Telecom equipment
2011	Tampnet	Tampnet	ABB/Statoil	Norway	Platform	Upgrade of Tampnet Transmission system infrastructure
2011	Gullfaks A	Statoil	ABB/Statoil	Norway	Platform	Implementation of WLAN Coverage
2011	Grane PAGA Coverage	Statoil	ABB/Statoil	Norway	Platform	Study for improved PAGA coverage
2011	Gullfaks A/B/C PAGA Coverage	Statoil	ABB/Statoil	Norway	Platform	Study for improved PAGA coverage
2011	Hejre Platform FEED	Dong Energy	Aker Solution	Denmark	Platform	FEED Study for the Telecom Discipline and Multifunctional onshore refinery
2011-2012	Gullfaks A Ignition Source Shut-Down	Statoil	ABB/Statoil	Norway	Platform	Systems
2010-2011	Sleipner A MUX Upgrade	Statoil	ABB/Statoil	Norway	Platform	Upgrade of MUX systems
2010-2011	Statfjord B, New Antenna Tower	Statoil	ABB/Statoil	Norway	Platform	Design, construction and installation of new antenna tower
2010-2011	Jorbær SAS/CCTV Integartion	BG	Teekay-SHI	Norway	FPSO	Integrate CCTV functionality on the SAS operator suite
2010-2012	HBK	Sonatrach	ABB LSTK	Algeria	Onshore Oil Field	Design and delivery SCADA, ICSS
2010-2017	Hebron	Exxon Mobil	Worley Parsons	Canada	Offshore GBS Platform	Complete delivery and design of offshore platform
2010-2013	Goliat	ENI	HHI	Norway	Sevan FPSO	Design and delivery of Telecom systems

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Transmission - Satellite/VSAT	
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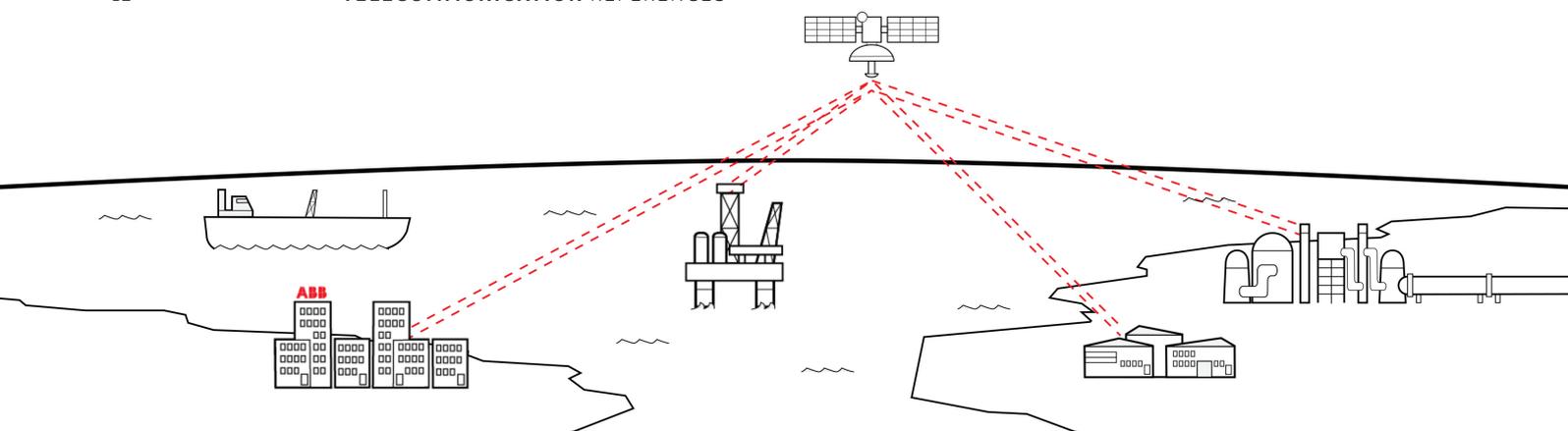
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2010-2014	Statoil frame agreement	Statoil		Norway	Frame agreement	Telecom Modifications frame agreement for 35 offshore platforms in the North Sea
2010	Oseberg PA	Statoil	Aibel	Norway	Offshore Platform	Upgrade of PAGA and UPS systems
2010	ULA Tetra	BP		Norway	Offshore Platform	Delivery of a TETRA UHF System.
2010	Herje FEED	Dong Energy		Denmark	Offshore Platform	FEED study for IO in remote operations
2010-2011	Arzew-Haas R`Mel pipeline	Sonatrach	Sonatrach	Algeria	Pipeline Network	Design and delivery SCADA System, Solar power supply
2010-2011	Tuna	Petrobel	Tecnomare	Egypt	Offshore Platform	Design and delivery of Telecom System
2010-2011	Holford Gas Storage	EON Energy	Costains	UK		Integarted Security System
2010	Transit pipeline TL-4	Kuwait Oil Company	ABB LSTK	Kuwait	Pipeline	Design and delivery SCADA
2009-2010	JackTel 1	Master Marine	ABB	Norway	Flotel	Design and delivery of Telecom systems
2009-2012	BS 160-SCADA Extension	Kuwait Oil Company	Saipem	Kuwait	Booster Station	SCADA Extension
2009-2011	40" Pipeline SCADA Extension	Kuwait Oil Company	Petrofac	Kuwait	Pipeline	SCADA Extension
2008-2011	Azzawia	Azzawia Oil Refinery Company		Libya	Refinery	ICSS Modernization, Telecom
2008-2010	Kollsnes CCR Upgrade	StatoilHydro	Aibel	Norway	Gas Plant	Design and delivery of Multifunctional Operator Dispatcher Stations
2008-2010	Troll A	StatoilHydro	Aibel	Norway	Offshore Platform	Upgrade of the Telecom Systems
2008-2009	Skarv FPSO	BP	"Aker Solutions"	Norway	FPSO	Delivery of a TETRA UHF and Fibre DWDM System.
2008	El Gamil System Upgrade	Petrobel		Egypt	Onshore Gas Plant and Offshore platform	Design and delivery of ICSS and Telecom systems
2007-2010	Vallhall VRD	BP	BP	Norway	Offshore Platform	Design and delivery of Telecom systems
2007-2010	TMGP-KTGP Pipeline	Sirte Oil	Punj Lloyd	Libya	Pipeline	Design and delivery of Telecom systems
2007-2009	AGD II	Gasco	Bechtel	UAE	Gas Plant	Design and delivery of Telecom systems
2007-2009	Kollsnes Flash Gas Project	StatoilHydro	Aibel	Norway	Gas Plant	Upgrade of Telecom field equipment.
2007-2009	OAG	Gasco	CCC	UAE	Gas Plant	Design and delivery of Telecom systems
2007-2008	BuHasa	Gasco	CCC	UAE	Gas Plant	Design and delivery of Telecom systems
2007-2008	NK 1	Sonatrach	ABB LSTK	Algeria	Pumping Station and Pipeline	Design and delivery of SCADA, ICSS

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2007	Semman	Petrobel		Egypt	Offshore platform	Design and delivery of ICSS and Telecom system
2006-2009	OGD-1.4	Gasco	Flour Daniel	UAE	Gas Plant	Design and delivery of Telecom systems
2006-2008	Alvheim FPSO	Marathon Petroleum	Aibel	Norway	FPSO	Design and delivery of Telecom systems
2006	Ekofisk 2/4L FEED Study	ConocoPhillips	"Aker Solutions"	Norway	Offshore Platform	FEED study for all telecom systems.
2006	RPP & PFA	Petrobel		Egypt	Offshore Platform	Design and delivery of ICSS and Telecom system
2005-2010	Telemetry for Gas and Condensate network	Kuwait Oil Company	Tenicas Reunidas	Kuwait	pipeline Network	Design and delivery of SCADA/GMIS system
2005-2008	Khursaniyah Project	Saudi Aramco	Saudi Aramco / Sumitomo	SaudiArabia	Onshore gas plant and pipelines	Design and delivery of Telecom systems
2005-2007	GD-III	Gasco	Bechtel	UAE	Onshore gas plant	Design and delivery of Telecom systems
2005-2006	West Africa Gas Pipeline	WAPCo	Willbros		Natural gas pipeline and control center	Design of 7 VSAT stations, LAN/WAN, IP telephony and networks
2005	TNW2	Petrobel		Egypt	Offshore Platform	Design and delivery of ICSS and Telecom system
2005	Baltim North	Petrobel		Egypt	Offshore Platform	Design and delivery of ICSS and Telecom system
2005-2006	Vallhall Redevelopment	BP	BP	Norway	Offshore and onshore communication	Telecom philosophy and FEED study Telecom systems
2005-2006	Vitoria FPSO	Petrobras	Saipem	Brazil	FPSO	Design and delivery of Telecom systems
2004-2006	NGC Cross Island Pipeline	Trinidad National Gas Company	Bechtel	Trinidad	Natural gas pipeline	Design & delivery of SCADA communication network
2004-2005	Haradh GOSP-III	Saudi Aramco	Techint/ Sumitomo	SaudiArabia	Gas/oil separation plant	Design and delivery of Telecom systems
2004-2005	Oseberg	Norsk Hydro	Vetco Aibel	Norway	Offshore platforms	Telecommunication Studies for the Oseberg field
2004-2005	North East Bab (NEB) Phase 1	ADCO	Technip/NPCC / Sumitomo	UAE	2 onshore oil & Gas plans and pipelines	Design and delivery of Telecom systems
2004-2005	Tamsah 4 & Barboni 1	Petrobel		Egypt	Offshore Platform	Design and delivery of ICSS and Telecom system
2003-2004	Ormen Lange	Norsk Hydro	Norsk Hydro	Norway	Gas processing plant	Delivery of PAGA and UHF Radio
2003-2006	Sakhalin-II LNG Plant	SEIC	Chiyotec/ Sumitomo	Russia	Gas processing plant	Design and delivery of Telecom systems
2002-2009	Sakhalin-II Telecom	SEIC	" SEIC/Sumitomo SHI/AMEC/WP/ Chyotec Bets/Starstroi"	Russia	3 offshore platforms, 2 onshore plants and 800km pipeline	Design and delivery and main Telecom contractor Sakhalin II
2003-2004	BBK-BBKN	Sonatrach	ABB LSTK	Algeria	Oil Center	Design and delivery of SCADA, ICSS
2003-2004	PFD & RPP	Petrobel		Egypt	Offshore Platform	Design and delivery of ICSS and Telecom system

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CCTV	
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2003	NPSC-PFD11	Petrobel		Egypt	Offshore Platform	Design and delivery of ICSS and Telecom system
2002-2003	Valhall Flank North WHP	BP	Heerema	Norway	Offshore platform	Design and delivery of Telecom systems
2001-2002	Valhall Flank South WHP	BP	Heerema	Norway	Offshore platform	Design and delivery of Telecom systems
2001-2006	Oil and Storage Plant & Pipeline Network	Confidential	ABV Rock Group	SaudiArabia	Oil products and storage plant and pipeline network	Design and delivery of Telecom systems
2001-2005	Statfjord	Statoil	Statoil	Norway	Offshore platforms	Frame agreement covering equipment and services
2001	Temsha	Petrobel		Egypt	Offshore Platform	Design and delivery of ICSS and Telecom system
2001	Grane	Norsk Hydro	Siemens	Norway	Offshore platform	Design and delivery of multiplex network
2001	Khuff Gas	Saudi Aramco	APC Elemac	SaudiArabia	Gas processing plant	Design & delivery of PCM Multiplexers
2001	Tyra	Maersk	Siemens	Norway	Offshore platform	Supply of Zone 1 approved multiplexer
2001	Oseberg Control Room	Norsk Hydro	Norsk Hydro	Norway	Offshore platform	Feasibility study of remote control and operation of offshore platforms
2000-2002	Kvitebjorn	Statoil	Leirvik Sveis	Norway	Offshore platform	Design and delivery of Telecom systems
2000	PFSW	Petrobel		Egypt	Offshore Platform	Design and delivery of ICSS and Telecom system
1999-2001	PFSE 1&2	Petrobel		Egypt	Offshore Platform	Design and delivery of ICSS and Telecom system
1999-2000	Huldra SDH Link	Statoil	Statoil	Norway	Offshore platforms	Nera SDH multiplexer network
1998-2000	Sable Gas Phase 1	Exxon Mobil/ Partners	SOEP	Canada	3 offshore platforms, 2 onshore plants and 200 km pipeline	Design and delivery of Telecom systems
1998-1999	Darfeel	Petrobel		Egypt	Onshore Gas Plant and Offshore Platform	Design and delivery of ICSS and Telecom system
1998-1999	Bab LCD	ADCO	Elsag	UAE	Onshore oil plants and pipelines	SCADA/Telecom and Telephony
1998-1999	Gullfaks	Statoil	Statoil	Norway	Offshore platform	Operational Support
1997-1998	Scarabeo 5	Saipem	Saipem	Italy	Offshore platform	CCTV / Driller's Intercom
1997-1998	Sable Offshore Energy Project	Exxon Mobil/ Partners	SOEP	Canada	3 offshore platforms, 2 onshore plants and 200 km pipeline	FEED engineering for the Sable Gas Project Telecommunications
1996-1997	Wakar	Petrobel		Egypt	Onshore Gas Plant and Offshore Platform	Design and delivery of ICSS and Telecom system

Systems and equipment

Services

Systems and equipment	Services
CCTV	
PAGA/Siren/Party Paging	
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1995-1997	DEWA data highway	DEWA	Elsag	UAE	Utility	12 power generation plants around Dubai
1995-1996	Port Fouad	Petrobel		Egypt	Onshore Gas Plant and Offshore Platform	Design and delivery of ICSS and Telecom system
1996-1997	CF-601 FPSO	Rasmussen Offshore	Mitsui	Japan	FPSO	Design and delivery of Telecom systems
1995-1996	Petrojarl Foinaven	Golar Nor	Siemens	Spain	FPSO	Turret telemetry system
1995-1996	Ekofisk 2/4 A	Phillips Petroleum	Phillips Petroleum	Norway	Offshore platform	Design and delivery of communication networks
1995-1996	Tjeldbergodden	Statoil	Flour Daniel	Norway	Methanol plant	UHF radio and Paging system
1995	Troll-Fedje link	Statoil	Statoil	Norway	Gas Plant	Communication link between Kollsnes and Fedje Control Center
1994-1996	Petrojarl Foinaven	Golar Nor	Astano	Spain	FPSO	Design and delivery of Telecom systems
1994-1995	Polycastle	Rasmussen Offshore	Rasmussen Offshore	Norway	SemiSub Flotel	Design and delivery of Telecom systems
1994-1995	Veslefrikk A + B	Statoil	Statoil	Norway	Offshore platforms	Design and delivery of Telecom systems
1994	Frigg-Frøy tie-in	Elf	Elf	Norway	Offshore platforms	Multiplexer Equipment
1994	Sleipner A + B	Statoil	Kværner / NRC	Norway	SemiSub + Wellhead platform	Design and delivery of Telecom systems
1992-1993	Hibernia	Neweast / HMDC	Neweast / HMDC	Canada	Offshore platform	Engineering and Quality Assurance for Marine Radio and Satellite System
1992-1995	Spirit of Columbus	Sana	Fincantieri	Italy	SemiSub platform	Design and delivery of Telecom systems
1992-1996	Troll Gas	Shell	Aker/Kellogg/ Hitec	Norway	Offshore platform & onshore refinery	Design and delivery of Telecom systems
1992	Embla	Phillips Petroleum	Phillips Petroleum	Norway	Unmanned well head platform	Design and delivery of Telecom systems
1991	Snorre	Saga Petroleum	Saga Petroleum	Norway	SemiSub platform	VAX Management

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