

Project Reference List



Project Overviews

Synectics is a world leader providing integrated surveillance and security systems to the Oil & Gas sector.

For over 30 years we have designed and delivered tailored solutions for the world's largest and most demanding projects.

Tempa Rossa

The \$1.9bn Tempa Rossa project – a joint development between Total and Shell – located in the Sauro valley will comprise eight production wells, a new oil processing centre, an LPG storage centre (with associated loading points) and updated utilities/ distribution infrastructure.

Quad 204 (Glen Lyon) FPSO

Quad 204 is a major redevelopment of the greater Schiehallion and Loyal fields. A new 270m long FPSO – the 'Glen Lyon' – will replace the old Schiehallion FPSO, located in the North Sea, 150 km from West Shetland. The Glen Lyon has a storage capacity of 800,000 barrels of oil and is expected to process 130,000 barrels of oil and 220 million standard cubic feet of gas per day. Production from the Quad 204 project will extend beyond 2035.

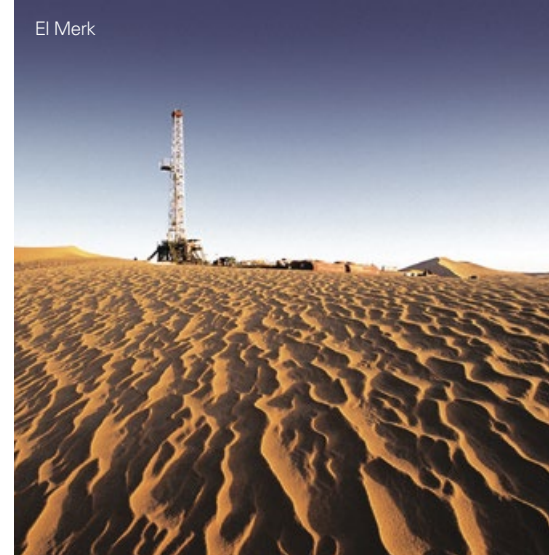
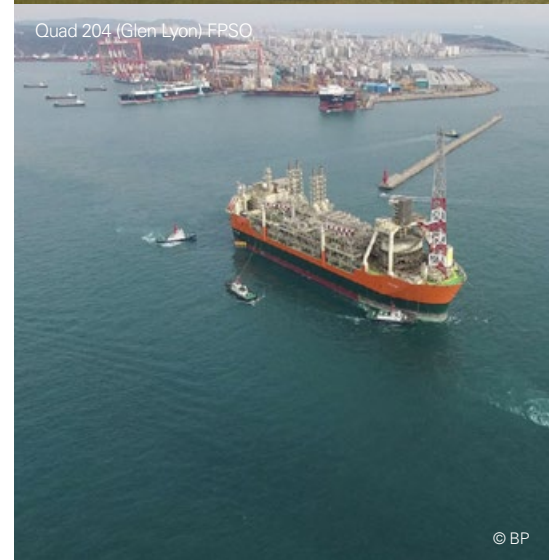
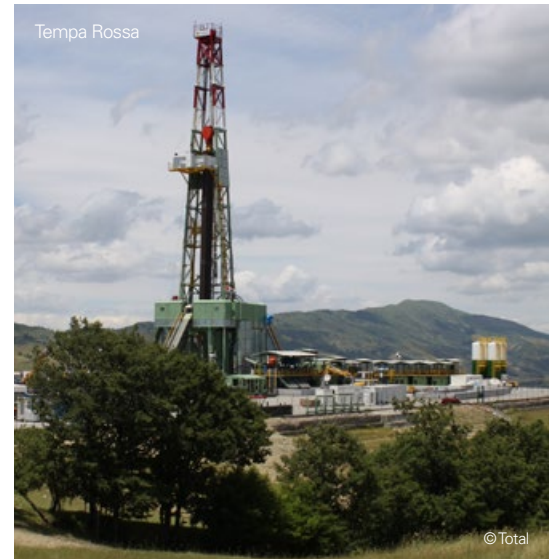
North East Bab (NEB) Field Development

NEB is located 31 km from the UAE capital, Abu Dhabi and is a development of significant importance to the region.

The Phase III project will expand the existing Rumaiitha central processing plant and implement the associated infrastructure (including new wells, flow lines, processing, utilities and transportation installations).

El Merk

The El Merk block is located approximately 300 km south east from Hassi Messaoud in the remote Sahara Desert. The Sahara Desert has one of the harshest climates and environments in the world, where sand storms and "dust devils" are prevalent. Wind can often reach hurricane speeds across this vast empty plain. The El Merk project will accommodate the processing of existing fluids sourced from the HBNS / HBN sites (the CCTV system of which was also provided by Synectics in 2001) approx 80 km away as well as processing the new Blocks forming a production hub for the region.





Gorgon

Located 130 km off the North West coast of Australia, the Greater Gorgon Gas Field is the largest single natural gas resource in Australia with hydrocarbon reserves estimated at approximately 40 trillion cubic feet. As Barrow Island is located in a Class A nature reserve, the Gorgon Project will also pioneer carbon dioxide injection technology.

Shell Pearl GTL

Pearl GTL is the world's largest source of gas-to-liquids (GTL) products, producing 140,000 barrels of GTL products each day. At a cost of \$18 billion Shell Pearl GTL Project, located in Ras Laffan Industrial City, Qatar, spans 2.5 square km (roughly the size of New York's Central Park). The project has been designed to use technology that will help to limit any environmental impact. The facility is designed to use every drop of water as part of Shell's approach to not release any liquids from the plant. Pearl GTL's industrial water processing plant is the world's largest; recovering, treating and re-using all the industrial process water.



Kashagan

The Kashagan Field in the Caspian Sea is considered the single most important discovery in the past 30 years and is the fifth largest oilfield in the world. The offshore location of the field means that it is subject to harsh conditions, where sea ice is present during the winter months and temperatures can drop to -40°C.

Ichthys

Located about 220 km offshore Western Australia, Ichthys represents the largest discovery of hydrocarbon liquids in Australia in 40 years. The Ichthys LNG Project is currently in construction and is ranked among the most significant oil and gas projects in the world.



BP Clair Ridge

The Clair Ridge Project is the second phase of development in the Clair Field which is located approximately 60 km west of Shetland extending over an area of 220 km² in water depths of approximately 140 m. Oil will be exported via the existing pipeline to Sullom Voe Terminal and associated gas will be transported via existing infrastructure to the beach. Gale force winds, hurricanes, severe storms can be expected, especially in winter, in the North Sea, therefore the structure and any equipment located on it must be designed to withstand such force.

Learn more about our project successes.

Download our case studies at <http://bit.ly/2jcM3xD>

Oil & Gas Project List

Client	Owner	Country	Project
3W Networks	ADCO	UAE	Al Dabbiya Phase III
Thales	ENI / Occidental / KOGAS / Missan	Iraq	Zubair Oil Field
ABB	Sempra / Engie / Mitsui / NYK / Mitsubishi	USA	Cameron LNG Terminal
Alcatel Lucent (Nokia)	Shell	Australia	Shell Prelude FLNG
Fores Engineering	GDF Suez / Sonatrach	Algeria	TouatGaz
Page Europa	BP	UK	Clair Ridge Platform
Daelim	KNPC	Kuwait	Kuwait Sulphur Handling Facility Mina Al-Ahmadi
Ineo E&S	Total	Angola	Kaombo FPSO
ENI	Petronas	Malaysia	Pengerang Refinery & Petrochemical Integrated Development (RAPID)
NesscolInvsat (RigNet)	Total	UK	Laggan Tormore
3W Networks	ADCO	UAE	Rumaitha / Shanayel NEB Phase III
Page Europa	BP	UK	Quad 204 (Glen Lyon) FPSO
NesscolInvsat (RigNet)	Shell	Iraq	Majnoon Oil Field
Dongjoo Engineering / Furono Singapore / Honeywell / China Harbour Engineering	Saudi Aramco	Saudi Arabia	Jazan Packages 1, 2, 4, 6, 9, 10, 11, 13 and 14
ABB	ADMA-OPCO	UAE	Al-Nasr Phase II
Page Europa	BP	Oman	Khazzan Gas Field
Honeywell	Tatweer Petroleum	Bahrain	Bahrain Gas Dehydration Plant
GDSS	Groupement Berkine / Sonatrach	Algeria	Berkine Upgrade
NesscolInvsat (RigNet)	ADNOC	UAE	Abu Dhabi Carbon Capture and Storage Phase I
Optilan	BP	Azerbaijan	Shah Deniz II
Transtel	INPEX	Australia	Ichthys LNG (CPF, FPSO, Onshore)
Thales	Total / Shell	Italy	Tempa Rossa
NesscolInvsat (RigNet)	Shell	Nigeria	Bonga FPSO
Thales/Vector	Abu Dhabi Polymers Company Limited (Borouge)	UAE	Borouge 3
Page Europa / Optilan	RasGas	Qatar	Barzan Gas Onshore / Offshore
Honeywell	ADNOC	UAE	Shah Sour Gas
L&T Automation	Takreer	UAE	IRP II (Inter Refineries Pipeline II)
Thales / Ramboll	Hess	Denmark	South Arne Platform
Kentz	Joint Venture (Chevron / ExxonMobil / Shell)	Australia	Gorgon
Page Europa	Conoco Phillips	UK	Jasmine / Judy Platforms
Safcon	Shell	USA	Appomattox Floating Platform

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Yokogawa Bahrain	Saudi Aramco	Saudi Arabia	Fadhili Gas Program
Honeywell	ACS Cobra Castor UTE	Spain	Castor Offshore Platform
Page Europa	Shell	Qatar	Shell Pearl GTL Plant
Page Europa	Adriatic LNG	Italy	Adriatic LNG Terminal
Transtel / DSME	Total	Angola	Pazflor FPSO
Page Europa	Sonatrach	Algeria	El Merk
Cegelec	Total	Indonesia	Sisi Nubi /Tunu North and South Gas Field Developments
Honeywell	Statoil	Norway	Valemon Platform
Thales / Bateman	AGIP KCO	Kazakhstan	Kashagan Experimental Programme and Power Station
Semco Maritime	Maersk	Denmark	Halfdan B Phase IV Development – HBD Facilities
BKE Shelf	Eurasia Drilling Company	Turkmenistan	Saturn Drilling Rig
Page Europa	Neste Oil	Singapore	NExBTL Project (Renewable Diesel Plant)
Petrofac / MW Kellogg / Page Europa	BP	Algeria	In Salah Gas Compression Facilities / Southern Gas Field Development
Wood Group / MW Kellogg / Aibel	BP	Algeria	In Amenas Gas Compression Facilities (and expansion)
Nokia (Alcatel Lucent)	Total	Angola	CLOV FPSO
Groupe SNEF	Sonatrach	Algeria	UTBS Oil Treatment Plant
Cegelec / Nokia (Alcatel Lucent)	GASCO	UAE	BAB and ASAB Gas Plants / BAB Compression / BAB Thamama / ASAB 3
Nokia (Alcatel Lucent) /Transtel / NesscolInvsat (RigNet)	Eni / NOC	Libya	Elephant Field (EL FEEL) and Expansion
AMEC Spie	Yemen LNG	Yemen	Yemen LNG Pipeline
Technip	ADCO	UAE	OAG Das Island Gas Field Development
AMEC	Scottish & Southern Energy	UK	Aldbrough Gas Storage
Worley Parsons	ROC Oil	Australia	Cliff Head ASP Onshore and Offshore
ABB	OMV Pakistan	Pakistan	Sawan Gas Field Compression
IMPac	Shell	Nigeria	Okoloma Process Plant
Transtel / Fores Engineering	Saudi Aramco / Saipem	Saudi Arabia	Karan
Transtel	PTT Exploration and Production Public Company	Thailand	Bongkot Field Development Project Phase 4A
Groupe SNEF	RasGas	Qatar	Ras Laffan Ethylene Cracker Plant
NesscolInvsat (RigNet)	Shell	Nigeria	Sea Eagle FPSO
Molikpaq	Sakhalin Energy	Russia	Sakhalin Island
NesscolInvsat (RigNet) / DSME / ABB / HHI	ExxonMobil	Angola	Kizomba A, B and C FPSO
NesscolInvsat (RigNet)	Petrobras	Brazil	Marlim Sul FPSO



Americas Asia Europe Middle East United Kingdom

