



COMMISSIONING & START UP

CLIENT (Final Client)	COUNTRY	SECTOR	PERIOD		DESCRIPTION	
			Year	Months	Plant / Unit	Services
KT Kinetics Technology S.p.A. (ENPPI)	Italy	Upstream (Off & On-shore)	2017	Up to now	Zohr Project	Precommissioning & Commissioning activities
ENI SpA (ENI SpA)	Indonesia	Off-shore	2016	Up to now	Jangkrik Project for new built barge Floating Production Unit (FPU)	Pre-Commissioning and Commissioning Services including: <ul style="list-style-type: none"> ■ Electrical Work Supervision ■ Instrument Work Supervision ■ Field Electr. Comm. Supervision ■ Field Instr. Comm. Supervision ■ QA/QC Specialistic Engineering ■ Rotating Machinery's Comm. Supervision ■ Leak Test Engineering ■ HVAC Engineering ■ Telecom Supervision ■ Mechanical Supervision
KT Kinetics Technology SpA (Lotos Asphalt Sp. Zoo)	Poland	Downstream (Refinery)	2016	Up to now	LOTOS Delayed Coking Unit, Coker Naphtha Hydrotreating Unit, Hydrogen Production Unit	Commissioning Services: <ul style="list-style-type: none"> ■ Commissioning Management ■ Turnover Engineering



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Saipem SpA	Kazakhstan	On-shore	2016	Up to now	EPC2 EPC3 ERSAI CASPIAN CONSTR. YARD	Commissioning Supervision Services: <ul style="list-style-type: none"> ■ Electrical Supervision ■ Instrument Supervision
Tecnimont SpA (TOTAL Italia E&P)	Italy	On-shore	2016	11 months	Tempa Rossa upstream treatment plant	OTP (Operation Test Procedures) development for the plant: <ul style="list-style-type: none"> ■ No. 320 Operating Test Procedures (OTP) ■ No. 2 Start-up Procedures
Saipem SpA	Mexico	On-shore	2016	4 months	Tula Refinery	Task force for the supervision of the Refinery Start-Up
CARDON IV SA (Cardon IV SA)	Venezuela	On-Shore Off-Shore	2015	19 months	PERLA Field Early Production Development Project PERLA EP	Plant Commissioning starting from procedures development till to site activities for the following facilities: <ul style="list-style-type: none"> ■ Central Process Facility (CPF) for 150 MM SCFD of gas ■ Central Process Facility (CPF) for 300 MM SCFD of gas ■ PP1 "hub" Off-shore Platform ■ PS2 "Satellite" Off-shore Platform ■ PS3 "Satellite" Off-shore Platform
ROSETTI & MARINO SpA (Total E&P SpA)	Scotland	Off-shore	2013/2014	12 months	West Franklin & Elgin B Offshore Platforms	Commissioning Engineering Activities including: <ul style="list-style-type: none"> ■ Construction Supervision at Ravenna yard ■ Pre-commissioning activities at Ravenna yard ■ Pre-commissioning activities at off-shore platform in the Central Graben Area (CGA) of the North Sea ■ Commissioning activities at off-shore platform in the Central Graben Area (CGA) of the North Sea



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ROSETTI & MARINO SpA (Total E&P SpA)	Scotland	Off-shore	2013/2014	5 months	West Franklin & Elgin B Offshore Platforms	Development of Plant Operating Manuals according to final Client (Total E&P) requirements and standards
INITEC PLANTAS INDUST. (Al Hosn Gas)	UAE	On-shore	2013/2014	12 months	SAS Project. Shah and Shail fields	Commissioning management during Revamping of existing and development of new wells (Shah and Shail oil fields)
LINDE ITALIA SpA (First Calgary Petroleum)	Algeria	On-shore	2013	2 months	Sonatrach Menzel Ledjmet East (MLE) project Oil&Gas treatment plant	Heater Site Commissioning Management
TOZZI SUD SpA (Khabarovsk Refinery)	Russia	On-shore	2012/2014	30 months	Hydroprocessing Project PJSC Khabarovsk Oil Refinery	Various activities spanning from Design to Commissioning at site. In detail: <ul style="list-style-type: none"> ■ Electrical & Instrumentation Commissioning Supervision Services ■ Instrument & Electrical Cable Tray Routing Definition ■ Interconnecting Mounting/wiring diagrams ■ Instrumentation & Electrical System Lay-outs ■ Study & Analysis of Firefighting System for Nitrogen Blg ■ HVAC System Design ■ Electrical Cable Tray Routing for Hydroprocessing Project RP-15 Substation ■ Instruments Loop Diagrams.



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SAIPEM SpA (Sonatrach)	Algeria	On-shore	2012/2014	15 months	GNL-3Z Arzew Project. LNG Plant	Supervision services during Commissioning phase at site: <ul style="list-style-type: none"> ■ Instrument Commissioning Supervision ■ Laboratory Commissioning Supervision
APS Engineering SpA (Snam rete Gas)	Italy	On-shore	2012/2013	14 months	Snam Rete Gas Pumping Station, Sabbioncello	Rotating Equipment re-powering and commissioning services
ROSETTI & MARINO SpA (Total E&P SpA)	Scotland	Off-shore	2012/2013	5 months	West Franklin & Elgin B Offshore Platforms	Development of No. 70 Operational Test Procedures (OTP) in order to define all the Commissioning activities to be performed, both in on-shore and off-shore fields according to TOTAL E&P Standards & requirements
TECNIMONT KT SpA (Chemical Asia Co.)	Indonesia	On-shore	2012	3 months	EDC Cracking Unit	Commissioning Management Services for EDC Heater Section
TECNIMONT KT SpA (Nynash)	Sweden	On-shore	2012	4 months	Nynashamn Refinery	Commissioning Management Services for the following refinery units: <ul style="list-style-type: none"> ■ Sulphur Recovery Unit (SRU) ■ Tail Gas (TG) Unit <p>In particular, the following activities have been performed:</p> <ul style="list-style-type: none"> ■ Construction hand-over ■ Unit Pre-commissioning & Commissioning ■ Unit Start-up

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QATAR ENGINEERING & CONSTRUCTION Co. WLL (Qatar Petroleum)	Qatar	Off-shore	2011/2012	12 months	Low Pressure Associated Gas Compression Unit at Halul Island	Home/Office and Site Pre-commissioning & Commissioning Activities: <ul style="list-style-type: none"> ■ Systems/Subsystems Definition ■ Method Statement for pre-comm/comm activities Development ■ Pre-commissioning Manual ■ Commissioning Manual ■ Management, Planning and Preparation Phase (Pre-com /Commissioning /RFSU) ■ Checks, tests and inspections ■ FAT Management & Witness ■ Punch list Management ■ Handover Management (utilizing ISS in house swf: the TMSCOM) ■ Final Dossier
SAIPEM SpA (First Calgary Petroleum)	Algeria	On-shore	2011	18 months	Sonatrach Menzel Ledjmet East (MLE) project Oil & Gas Treatment Plant	Management and Coordination of Plant Turnover site activities
MAERSK OIL QATAR WLL (Shell)	Qatar	On-shore	2011	24 months	Pearl Gas to Liquid (GTL) Plant	Technical assistance on site and commissioning services
LINDE ITALIA SpA (Shell)	Qatar	On-shore	2011	2 months	Pearl Gas to Liquid (GTL) Plant	Furnace Unit Commissioning Management services



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AHMADIAH Contracting & Trading Co. (KNPCC)	Kuwait	On-shore	2010/2012	24 months	Refinery Waste Water Treatment Plants	<p>Home/Office and Site Pre-commissioning & Commissioning Activities including as follows:</p> <ul style="list-style-type: none"> ■ Systems/Subsystems Definition ■ Method Statement for pre-comm/comm activities Development ■ Pre-commissioning Manual ■ Commissioning Manual ■ Management, Planning and Preparation Phase (Pre-com /Commissioning /RFSU) ■ Pre-commissioning, Commissioning and Start-up Phase development ■ Checks, tests and inspections ■ Punch list Management ■ Handover from Construction Management (utilizing ISS in house sfw: the TMSCOM) ■ Handover Management (utilizing ISS in house sfw: the TMSCOM) ■ Final Dossier <p>The above listed activities have been performed for:</p> <ul style="list-style-type: none"> ■ Mina Abdulla (MAB) Refinery ■ Mina Al Hamadi (MAH) Refinery ■ Shuaiba (SHU) Refinery
TECNIMONT KT SpA (Iplom Refinery)	Italy	On-shore	2010	4 months	IPLOM Refinery. Busalla	<p>Technical assistance on site and commissioning services for the following unit start-up:</p> <ul style="list-style-type: none"> ■ H2 generation Unit ■ HydroCracking (MHC)



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FOSTER WHEELER SpA (Hellenic Petroleum)	Greece	On-shore	2010	6 months	Fluid Catalytic Cracking FCC Plant	Commissioning Management Services including as follows: <ul style="list-style-type: none"> ■ Procedure Development and Drafting ■ Management of Site Commissioning Activities
SAIPEM SpA (Engro Fertilizers Ltd)	Pakistan	On-shore	2009/2010	18 months	Engro Site, UREA Production Plant	Site Commissioning Management Services
CEMIT Srl (ENI E&P)	Italy	On-shore	2010	8 months	Val D'Agri Oil & Gas Treatment Plant	Home/Office Activities including as follows: <ul style="list-style-type: none"> ■ Pre-commissioning & Commissioning Procedures ■ Operating Manual Development
SKEMA TOZZI JV (Agip KCO)	Italy/Kazak	Off-shore	2010	12 months	PUB / LER Off-shore Platforms	Activities spanning from Design to Commissioning at site: <ul style="list-style-type: none"> ■ Instrument Engineering Design Development ■ Electrical Engineering Design Development ■ Instrumentation Commissioning Supervision Services ■ Electrical Commissioning Supervision Services
TECHNIP KTI SpA (Ecopetrol)	Colombia	On-shore	2010	3 months	Hydrogen Production Unit Barrancabermeja Refinery	Commissioning Management Services for a Steam Reforming Unit (SRU) including: <ul style="list-style-type: none"> ■ Construction Hand-over ■ Pre-commissioning Activities ■ Commissioning Activities ■ Unit Start-up



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TECHNIP KTI SpA (IOCL)	India	On-shore	2010	3 months	Hydrogen Production Unit Haldia Refinery	Commissioning Management Services for a Steam Reforming Unit (SRU) including: <ul style="list-style-type: none"> ■ Construction Hand-over ■ Pre-commissioning Activities ■ Commissioning Activities ■ Unit Start-up
TECHNIP KTI SpA (APC)	Egypt	On-shore	2010	4 months	Hydrogen Plant, APC Refinery	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Pre-commissioning Activities ■ Commissioning Activities
SAIPEM SpA (Snam Rete Gas)	Italy	On-shore	2010	7 months	Gas Treatment Plant Fiume Trieste	E&I Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning & Commissioning ■ Start-up
TECHNIP KTI SpA (Chemtex)	China	On-shore	2010	2 months	Acetic Acid Cracking furnace	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning & Commissioning ■ Start-up
EDISON SpA (Thisvi CCGT Power Plant)	Greece	On-shore	2009/2010	18 months	Combined Cycle Power Plant Thisvi Greece	Home/Office and Site Activities including as follows: <ul style="list-style-type: none"> ■ Systems/Subsystems Definition ■ Method Statement for pre-comm/comm activities Development ■ Pre-commissioning & Commissioning Manual



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						<ul style="list-style-type: none"> ■ Operating Manual ■ Management, Planning and Preparation Phase (Pre-com /Commissioning /RFSU) ■ Pre-commissioning, Commissioning and Start-up Phase development ■ Checks, tests and inspections ■ Punch list Management
QATAR ENGINEERING & CONSTRUCTION Co. WLL (Qatar Gas)	Qatar	On-shore	2009/2010	18 months	VOC Abatement Plant Ras Laffan Site	Home/Office and Site Activities including as follows: <ul style="list-style-type: none"> ■ Systems/Subsystems Definition ■ Method Statement for pre-comm/comm activities Development ■ Pre-commissioning Manual ■ Commissioning Manual ■ Operation & Maintenance Manual ■ Pre-commissioning, Commissioning and Start-up Phase development ■ Performance Test Run Management and supervision ■ Checks, tests and inspections ■ Punch list Management ■ Handover Management from Construction phase (utilizing ISS in house sfw: the TMSCOM) ■ Final Handover Management (utilizing ISS in house sfw: the TMSCOM) ■ Final Dossier



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SAIPEM SpA (Snam Rete Gas)	Italy	On-shore Pipeline	2009/2010	5 months	Pipe Line – Mantova/ Bergantino	Site Services for E&I disciplines including as follows: <ul style="list-style-type: none"> ■ Commissioning ■ Start-up
SAIPEM SpA (Snam Rete Gas)	Italy	On-shore Pipeline	2009/2010	6 months	Enna/Messina Pipe Line	Site Services for E&I disciplines including as follows: <ul style="list-style-type: none"> ■ Commissioning ■ Start-up
TECHNIP KTI SpA (Nynash Refinery)	Sweden	On-shore	2009/2010	8 months	Refinery Hydrogen Generation Plant	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning & Commissioning ■ Start-up
TECHNIP KTI SpA (Visak Refinery)	India	On-shore	2009	9 months	Visak Refinery	Commissioning Management Services including Construction hand-over, Pre-commissioning & Commissioning, Start-up for the following units: <ul style="list-style-type: none"> ■ Sulphur Recovery Unit (SRU) ■ Tail Gas Treatment (TGTU) ■ Amine Regeneration Unit (ARU) ■ Sour Water Stripper Plants (SWS)
SAIPEM SpA (Snam Rete Gas)	Italy	On-shore Pipeline	2008	8 months	Pumping station & Cavalzere / Minerbio Pipeline	Site Services including: <ul style="list-style-type: none"> ■ Commissioning ■ Start-up



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SAIPEM SpA (Snam Rete Gas)	Italy	On-shore Pipeline	2008	10 months	Ferrara LNG Pipeline	Site Services including as follows: <ul style="list-style-type: none"> ■ Commissioning ■ Start-up
TRACTEBEL (Suez Group)	Italy	On-shore	2007	10 months	Napoli Levante Power Plant	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning & Commissioning ■ Start-up
GUASCOR SpA (Guascor)	Italy	On-shore	2007	10 months	Recovery Oil Plant - Gela	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning & Commissioning ■ Start-up Home/office development Commissioning procedures and Operating Manual
TRACTEBEL (Suez Group)	Italy	On-shore	2007	7 months	Rosignano Power Plant	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning & Commissioning ■ Start-up
BENTINI SpA (Sonatrach)	Algeria	On-shore	2006	6 months	Orano Gas Compression Station	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning & Commissioning ■ Start-up

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TECHNIP KTI SpA (KT Star)	Egypt	On-shore	2006	8 months	El Harish Gas Compression Station	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning Home/office development Commissioning procedures and Operating Manual
BENTINI SpA (Mellitah Oil & Gas BV)	Libya	On-shore	2006	6 months	Compression Station – Mellitah	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning & Commissioning
TRACTEBEL (Suez Group)	Italy	On-shore	2006	6 months	Vado Ligure Power Plant	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning & Commissioning ■ Start-up
TECHNIP KTI SpA (INA)	Croatia	On-shore	2006	10 months	Hydrogen Production Plant Rjeka Oil Refinery	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning
SNAMPROGETTI Ltd (Mellitah Oil & Gas BV)	Libya	On-shore	2005	6 months	Mellitah Offshore Gas Platform	Commissioning Management Services for: <ul style="list-style-type: none"> ■ Construction hand-over ■ Pre-commissioning & Commissioning ■ Start-up