

Project / Description	Client	Year	NPS	Length / Rating	Scope of Work	Project Activities	Product	Location	Software Adopted
Hot air sterilization autoclave - Baffles optimization <i>CFD Analysis</i>	Fedegari	2022	-	-	Verification of the current baffles position inside the autoclave with CFD simulations. Evaluation and optimization of the internal air flow circulation.	CFD & FEM Analysis	Air	NA	Ansys Fluent
Design of a new prototype steam sterilization autoclave <i>Basic Engineering - CFD- & FEM Analysis</i>	Fedegari	2022 - Ongoing	-	-	Process Design (Line sizing, P&ID, D/S equipment). Thermo-Hydraulic analysis of sterilization cycle. Geometrical optimization of the internal autoclave chamber with CFD simulations. Thermo-Mechanical design of the vessel and stiffeners with FEM simulations.	CFD & FEM Analysis	Air / Steam / Steel	NA	Owned VBA SW Simscale Ansys Fluent
Pharmaceutical Isolator - Air Intake System <i>CFD Analysis</i>	Fedegari	2022	-	-	Verification of the current intake system with CFD simulations. Evaluation of pressure drop inside ducts and filters, Modelling of centrifugal fan reproducing rotational effect induced by the machine.	CFD & FEM Analysis	Air	NA	Simscale
North Adriatic Development Projects <i>Sealines Flow Assurance</i>	DG Impianti	2022 - Ongoing	6"-8"-10"	5-10 km	Flow Assurance of N°7 new sealines.Steady & Transient State Analysis, Slug Analysis, Hydrate management study	Pipeline & Sealine	Natural gas	Croatia	LedaFlow
DN10"-DN14" Oil Pipelines <i>Flow Assurance</i>	Rosetti Marino	2021-2022	10"-14"	9 km 900#	Flow Assurance of N°2 existing sealines. Steady & Transient State Analysis, Pigging Analysis, Slug Analysis for inlet separator verification.	Pipeline & Sealine	Crude Oil	Qatar	LedaFlow Owned VBA SW
Nord Stream <i>Drying Simulation</i>	Saipem	2021	2x48" Gas Sealine	1280 km 1500#	Post Pigging Liquid Residual Analysis	Pipeline & Sealine	Natural Gas	Russia-Germany	Olga Multiflash
DN32" Pipeline <i>Erosional Study</i>	Saipem	2021-Ongoing	32"	500 km	Powder deposition evaluation into a stable or almost stable bed layer inside the pipeline, the thickness of the layer, the location and following powder velocity inside the pipeline	Pipeline & Sealine	Natural Gas	Libya	Olga Owned VBA SW
DN 32" Oil Pipeline - Design of a new Oil return System <i>Basic Engineering</i>	ENI	2021-Ongoing	32"	90 km 900#	CFD & Process Analysis, material and diameter selection, thickness calculation	Refinery Plant/ Oil Depot / Truck Loading Bay CFD & FEM Analysis	Crude Oil	Italy	LedaFlow Simscale Owned VBA SW
Etrouble - Collombay Pipeline <i>Feasibility Study & Basic Engineering</i>	Oleoduc du Rhone	2021-Ongoing	12"	60 km 600#	Cleaning and Inertization of the pipeline for CO2 re-use Calculations and Cleaning Specification	Pipeline Service	Crude Oil	Italy - Switzerland	Owned VBA SW
Porto La Spezia - Marine Terminal <i>Feasibility Study</i>	SARAS - SIMECO	2021-Ongoing	-	-	Process Analysis, Preliminary Equipment Design, Berthing Systems Definition and Preliminary Mooring Analysis, Offloading System and Preliminary Lay-out Definition.	Marine Terminal / Marine Loading Arm Pipeline & Sealine	Refined Products	Italy	-
Palm Oil Free Project - Venezia Refinery <i>Basic Engineering</i>	ENI - SIMECO	2021	6" - 8" - 10"	Total length 12 km 150 #	Hydraulic Calculations, P&IDs, D/S equipment (pumps, regulating valve, thermal relief valves, instrumentations), Line sizing	Refinery Plant/Oil Depot/Truck Loading Bay	Palm Oil Waste (POME, SBEO) / Used Cooking Oil (RUCCO)	Italy	AFT Impulse Owned VBA SW
DN24" Pipeline <i>Flow Assurance & Cleaning - Inspectioning Activities</i>	TECMA - IGS	2020	24"	2 km	Flow Assurance, calculations, multiphase simulation. Equipment definition, technical support and on field supervision.	Pipeline & Sealine Pipeline Service	Natural Gas / Water	Italy	LedaFlow Owned VBA SW
Stress Verification DN42" Pipeline <i>FEM Analysis</i>	ENI	2020	42"	11 km	Historical inspection data analysis, FEM modelling of the actual strain pipeline status. FEM simulations of the instability condition caused by vertical load	CFD & FEM Analysis	Steel	Italy	Simscale

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Pipeline Grid Reorganization and New Pipeline Junction Design <i>Feasibility Study & Basic Engineering</i>	SIGEMI - Q8	2020-2021	-	600#	Feasibility Study (Flow assurance, material and diameter selection, thickness calculation) Preliminary Pipeline Routing & Cost estimation	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Refined Products	Italy	Owned VBA SW
New depot and new DN 6" pipeline - Orio al Serio Airport <i>Feed Engineering</i>	SACBO S.p.A.	2019-2020	6"	2 km 150 #	Pipeline Engineering for the new pipeline: P&ID, D/S of regulating valve and of special pieces (barred tee, line pipe, curve), Line Sizing, lay-down specification	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Jet Fuel A1	Italy	AFT Impulse Owned VBA SW
Trecate Slug Catcher for Pipeline Displacement <i>Feasibility Study</i>	EXXONMOBIL	2019-2020	-	-	Hydraulic calculation, plant configuration analysis, slug catcher preliminary design and design specification (Exxonmobil standard)	Refinery Plant/ Oil Depot / Truck Loading Bay	Crude Oil and Nitrogen	Italy	LedaFlow Owned VBA SW
Fos Refinery Pipeline Network <i>Hydraulic Study</i>	EXXONMOBIL France	2019-2020	4" to 34"	Total length 60 km (11 pipelines)	Hydraulic Studies of Fos refinery pipeline network Stady-state and Transient-state Analysis	Pipeline & Sealine	Crude Oil, LPG, Propylene, Refined Products	France	AFT Impulse Owned VBA SW
DN10" Pipeline - New unloading system from Cargo Tank <i>Feasibility Study & Basic Engineering</i>	KRI - Q8	2019	10"	60 km 600 #	Feasibility Study (different solution comparison), Hydraulic calculations, P&ID, line sizing, Main equipment Data Sheet and specification, technical alignment, control system simulation and definition	Refinery Plant/ Oil Depot / Truck Loading Bay Marine Terminal/Marine Loading Arm	Refined Products	Italy	AFT Impulse Owned VBA SW
Two New DN24" bi-directional pipelines <i>Hydraulic Study</i>	Repsol	2019	24"	3,6 km	Hydarulic Study for loading and un-loading configuration Steady-state and Transient-state Analysis	Pipeline & Sealine	Crude Oil Virgin Naphtha	Spain	AFT Impulse Owned VBA SW
New water pipeline DN12" <i>Flow Assurance</i>	ENI Angola	2018	12'	15 km 300#	Flow assurance and feasibility study of a new pipeline (material and diameter selection, thickness calculation)	Pipeline & Sealine	River Water	Angola	AFT Impulse Owned VBA SW
New TOC Hydrogen Pipeline <i>Feasibility Study & Basic Engineering</i>	ENI	2018-2020	6"	3 km	P&ID, Data Sheet of main equipment and pipeline special pieces, Hydraulic Study, Line sizing, Operating Philosophy, Pre-commissioning & Hydraulic Test specification Preliminary Pipeline Routing and TOC Metodology Cost estimation	Pipeline & Sealine	Hydrogen	Italy	LedaFlow
Two Crude Oil Jetty Pipelines DN40"	SARLUX S.r.l.	2017 - 2019	40" - 42" Sealine	3 km 150#	Hydraulic Study, Basic and Detailed Engineering for the two new pipelines, cleaning specification for the two existing ones	Marine Terminal / Marine Loading Arm Pipeline & Sealine	Crude Oil	Italy	AFT Impulse Owned VBA SW
NPS 32" Genova - Sannazzaro <i>Nitrogen Displacement</i>	ENI	2018	32" Pipeline	90 km 600#	Pipeline Displacement Procedure, Pipeline Re-filling Procedure, On Site Activities	Pipeline Service	Crude Oil	Italy	LedaFlow Owned VBA SW
Pipeline Montealpi-Taranto DN20" <i>Nitrogen Displacement</i>	ENI	2018	20" Pipeline	Displacement 16 km	Partial Pipeline Displacement Procedure, On Site Activities	Pipeline Service	Refined Products	Italy	LedaFlow Owned VBA SW
Pipeline Livorno - Calenzano <i>Nitrogen Displacement</i>	ENI	2018	8" Pipeline	Displacement 40 km	Partial Pipeline Displacement Procedure, On Site Activities	Pipeline Service	Refined Products	Italy	LedaFlow Owned VBA SW
Jetty lines Porto Petroli di Genova <i>Hydraulic Study</i>	PORTO PETROLI DI GENOVA	2017-2018	10"-16"-20"-28" Pipeline	6 km up to 50 km 150#	Hydraulic Study, feasibility, detail desing concernig new safety systems (P&ID, D/S, PFD, Equipment List, Line Sizing)	Pipeline Service	Crude Oil Refined Products	Italy	AFT Impulse Owned VBA SW

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Gas Pipeline DN6" Garaguso-Ferrandina <i>Pigability feasibility study</i>	EDISON	2017-2018	6"	13 km	Pigability feasibility study	Pipeline Service	Natural Gas	Italy	LedaFlow
Pipeline Poggio Montone <i>Flow Assurance</i>	SORGENIA	2017	8"	3.5 km	Flow assurance and feasibility study of a new pipeline (material and diameter selection, thickness calculation)	Pipeline & Sealine	Natural Gas	Italy	LedaFlow
Pipeline Trecate – Lacchiarella/Cremona DN6 <i>Hydraulic Study</i>	TAMOIL	2017	6"	90 Km	Pump Design. New pump process D/S. Hydraulic Analysis.	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Refined Products	Italy	AFT Impulse Owned VBA SW
Venezia Refinery <i>42"</i>	ENI	2016	42" Sealine	-	Replacing of sealine coverage	Pipeline & Sealine	Diesel Oil	Italy	Owned VBA SW SAP 2000 Autocad
MAMBA Project <i>In-Line Inspection Feasibility study</i>	TECMA-ENI	2016/2017	2x22" - 5x16" - 1x8" Sealine	200 km 1500#	In-Line Inspection Feasibility study	Pipeline Service	Natural Gas - Multiphase	Mozambico	Owned VBA SW
Cooling Water Circuit Study <i>New Plant Feasibility study</i>	ENI	2016	-	- 150#	Hydraulic Study, P&ID's, PFD, D/S	Refinery Plant/ Oil Depot / Truck Loading Bay	Water	Italy	AFT Fathom Owned VBA SW
Loading and Offloading 24" <i>Hydraulic Study</i>	API	2016	24" Off & On Shore	5 km 150#	Hydraulic Study in Steady and Transient State.	Marine Terminal / Marine Loading Arm Pipeline & Sealine	Crude Oil	Italy	AFT Impulse Owned VBA SW
Multedo - Busalla DN16" <i>Pipeline Recovery After Oil Spillage</i>	IPLOM	2016	16" Pipeline	25 km 600#	Company engineering consulting. Documentation Issuing for Authorities. Hydraulic Study, Safety Systems Design, Start up and Shut down Procedure. Decommissioning and Commissioning Activities.	Pipeline & Sealine	Crude Oil	Italy	LedaFlow AFT Impulse Owned VBA SW
DN12" Ostiglia - Sermide <i>Cleaning and abandonment Operations</i>	EP	2016	12" Pipeline	20 km	Cleaning , Abandonment Procedures	Pipeline Service	-	Italy	Owned VBA SW
DN12" Limito-Sannazzaro <i>Oxygen pipeline cleaning</i>	Air Liquide	2016	12" Pipeline	60 km	Cleaning with nitrogen. Pigging and vent simulation	Pipeline Service	O ₂	Italy	LedaFlow AFT Arrow Owned VBA SW
Bordolano Early Iniection Project <i>Compression System Design</i>	Bonatti	2009	6-8" Pipeline	900#	FEED Activities: P&ID, Equipment sizing and Data Sheets and Specification issue, Hydraulic Analysis, Instrumentation and Civil Engineering Detailed Engineering Activities.	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Natural Gas	Italy	Owned VBA SW Autocad Caeser II
Jetty lines Pernis <i>Hydraulic Study</i>	EXXONMOBIL France	2017	4" - 6" - 8"	-	Surge analysis of the jetty lines loading and unloading study	Marine Terminal / Marine Loading Arm Pipeline & Sealine	Refined Products	Netherlands	AFT Impulse Owned VBA SW
Kerosene and Virgin Naphtha Bi-Directional Transfer Pipelines <i>Revamping and optimization</i>	SEAPAD	2015	28"-20"-12" Pipeline	6 km - 83 km 300# 600#	Hydraulic Report, Interface Analysis, P&ID's, Operating Philosophy	Pipeline & Sealine	Kerosene Virgin Naphtha	Italy	Owned VBA SW Autocad
Crude oil pumping station and new manifold design <i>Tender Engineering</i>	ABB	2015	-	-	Documentation preparation for the technical offer for EPC Engineering. Hydraulic calculations, P&ID's mark-up, preliminary line sizing, major equipment definition and specification (main pumps, booster pumps, transfer pump, Slops, tank, etc...).	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Crude Oil	Algeria	Owned VBA SW Autocad

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DN 20" +16" +12" Ferrara - Aigle <i>Nitrogen displacement</i>	Eni R&M & Oléoduc du Rhône S.A.	2015	20" +16" +12" Pipeline	260 km 600#	Calculations, procedures, equipment definition, technical support and on field supervision.	Pipeline Service	Crude Oil	Italy - Switzerland	LedaFlow AFT Arrow Owned VBA SW
Pegli - Sannazzaro DN32" <i>Pipeline Services</i>	ENI	2015	32" Pipeline	100 km 600#	Pig Positioning, Pipeline Displacement Study	Pipeline Service	Crude Oil	Italy	LedaFlow AFT Impulse Owned VBA SW
Sealines: Luna B – Luna A, BEAF – Luna A, Luna A - Crotone <i>Sealines' Cleaning & Inspection</i>	TECMA & Ionicagas (Eni)	2014	14" -10" -16" Sealine	5 km 6 km 7 km	Dynamic Flow Assurance – Sealines Cleaning and Inspection Simulation	Pipeline Service	Natural Gas	Italy	LedaFlow AFT Arrow Owned VBA SW
DN8" Castelnuovo-Lonato Air Liquide <i>Oxygen pipeline cleaning</i>	TECMA & Air Liquide	2014	8" Pipeline	34 km	Cleaning with nitrogen and pig and vent simulation	Pipeline Service	O ₂	Italy	LedaFlow AFT Arrow Owned VBA SW
EESTI Energia <i>Feasibility study for Pipeline Project</i>	Foster & Wheeler	2014	-	18 km	Sour semi-coke gas preparation and transportation	Pipeline & Sealine	Sour semi-coke gas	Estonia	LedaFlow AFT Arrow Owned VBA SW
Venezia - Mantova DN10" <i>Pipeline Services</i>	IES	2014	10" Pipeline	120 km 900#	Pig recovery, Pipeline Displacement Study, Pipeline Pressurization Study, On Site Activities	Pipeline Service	Petroleum Products	Italy	LedaFlow AFT Fathom Owned VBA SW
Multedo - Busalla DN8" & DN16" <i>Spillage Analysis</i>	IPLM	2014	8" - 16" Pipeline	25 km 600#	Spillage Analysis and motorized valves' position definition	Pipeline & Sealine	Petroleum Products	Italy	LedaFlow Owned VBA SW
Flowline water displacement	Foster & Wheeler	2014	4" Pipeline	3,5 km	Temperature variation analysis along the flowline	Pipeline & Sealine	Crude Oil	Romania	LedaFlow Owned VBA SW
Venezia Refinery <i>42" Sealine Products Re-Conversion</i>	Eni R&M Div.	2013	42" Sealine	10 km 150#	Sealine DN42" Hydraulic and Interface length Analysis, Pig Traps Data Sheet	Pipeline & Sealine	Petroleum Products	Italy	LedaFlow AFT Arrow Owned VBA SW
Venezia – Mantova DN 20+10" <i>Pipeline Products Re-Conversion</i>	MOL Group / Foster Wheeler	2013-2014	10" Pipeline	120 km 900#	FEED Activities: P&ID, Equipment sizing and Data Sheets and Specification issue, Hydraulic Analysis, Operating and Displacement Procedures, Batch Study, Leakage Calculation, Instrumentation and Civil Engineering	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Petroleum Products	Italy	LedaFlow AFT Arrow Owned VBA SW Autocad
Genova – Sannazzaro <i>Kerosene transport</i>	Eni R&M Div.	2013	12" Pipeline	100 km 900#	Feasibility Study: P&ID's, Equipment Sizing, Hydraulic Analysis	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Kerosene	Italy	AFT Impulse Owned VBA SW
CO2 Pilot Plant	ICC	2013	4" Pipeline	3 km 900#	Flow Assurance (Steady, Dynamic and Transient) with the scope to define tests to be performed in the pilot plant	Pipeline & Sealine	CO ₂	Spain	LedaFlow AFT Arrow Owned VBA SW
OLGA – LEDA Comparison Study	SAIPEM	2013	36" Sealine	220 km	Flow Assurance (Steady, Dynamic and Transient State) with the scope to perform comparison study and validate two CFD software	Pipeline & Sealine	Natural Gas, Saturated Gas, Saturated Gas with Free Water, Multiphase Oil	Italy	LedaFlow

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Ragusa - Mostringiano - Magnisi DN10-24 Pipeline <i>Nitrogen Displacement</i>	Eni / PPC	2012-2013	10" - 24" Pipelines	60 km 7 km	Hydraulic Analysis, Specification and Working Procedure	Pipeline Service	Crude Oil	Italy	LedaFlow Owned VBA SW
Hydraulic Studies Northern Italy Pipeline Grid,	SIGEMI – Shell Italia	2012-2013	10" - 16" Pipelines	10 ÷ 110 km	Hydraulic Study in Steady and Transient State relative to 6 bi-directional pipelines having 10 pumping directions	Pipeline & Sealine	Petroleum Products	Italy	AFT Impulse Owned VBA SW
Safety Valves' Installation <i>Detailed Engineering</i>	SIGEMI – Shell Italia	2012-2013	16" Pipeline	10 km 300#	Safety Valves' Dimensioning and Installation at the pipelines' arrival	Pipeline & Sealine	Petroleum Products	Italy	Owned VBA SW Autocad SAP2000 Caeser II
Ferrera - Fegino DN12 Pipeline, Pig Dislodging & Nitrogen Displacement <i>Services</i>	SEAPAD	2012	12" Pipeline	100 km 900#	Hydraulic Analysis, Specification and Working Procedure	Pipeline Service	Petroleum Products	Italy	LedaFlow Owned VBA SW
New DN10 Gela – Gaurone Pipeline for CO2 re-injection	Eni E&P Div. / PPC	2012-2013	10" Pipeline	13 km 900#	Base Engineering: Flow Assurance, Pipeline material and thickness definition, P&ID's, Pipe Sizing, Specifications and Data Sheets for various equipment (Linepipe, Induction Curves, Pig Traps, Main Line Valves)	Pipeline & Sealine	Gas CO2	Italy	LedaFlow AFT Arrow Owned VBA SW
Trans Mediterranean Pipeline Company (Cap Bon - Mazara del Vallo)	TMPC	2012	24" Sealine	380 km	Flow Assurance Study, Gas Pipeline Control Valve sizing with LedaFlow	Pipeline & Sealine	Natural Gas	Tunisia	LedaFlow AFT Arrow Owned VBA SW
West Qurna 2 <i>Basic Design</i>	Technip	2011	42" Oil 32" Gas	100 km 900#	P&ID's, Main Line Valves, Blow Down Study, Hydr. Calculation	Pipeline & Sealine	Crude Oil, Gas, LPG	Iraq	LedaFlow Owned VBA SW Autocad
Congo Marine XII Block Litchend Gas Development <i>Pigging Philosophy</i>	Eni Tecnomare	2011	12" Pipeline	40 km	Pigging Philosophy	Pipeline Service	Natural Gas and condensates	Congo	Owned VBA SW
El Merk <i>Detail Design</i>	ABB	2011	12"-24" Pipeline	-	Flow Assurance	Pipeline & Sealine	Crude Oil Multiphase	Algeria	LedaFlow
Nord Stream Project <i>Detail Design</i>	NSP - Saipem	2008 -2011	2x48" Gas Sealine	1280 km 1500#	Precommissioning, Commissioning, Landfall design, P&ID, Pipe Sizing, Blow Down	Pipeline & Sealine	Natural Gas	Russia-Germany	Owned VBA SW
Trecate – Cremona <i>Pipeline Products Re-Conversion</i>	Tamoil	2011	6" Pipeline	100 km 900#	Hydraulic Study, batch study, products interface length	Pipeline & Sealine	Diesel, gasoline	Italy	AFT Impulse Owned VBA SW
Lacchiarella – Cremona <i>Pipeline Products Re-Conversion</i>	Shell Italia Tamoil	2011	6" Pipeline	80 km 900#	Hydraulic Study, batch study, products interface length	Pipeline & Sealine	Diesel, gasoline	Italy	LedaFlow AFT Impulse Owned VBA SW
Cornegliano L. – Cervignano Interconnecting Pipeline <i>Conceptual Design</i>	Italgas Storage	2011	42" Pipeline	10 km 600#	Conceptual & Hydraulic Study	Pipeline & Sealine	Natural Gas	Italy	AFT Arrow Owned VBA SW

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Genova Loading System <i>Basic & Detail Design</i>	POPEGE	2011	28" Pipeline	5 km 150#	Hydraulic Calculation	Pipeline & Sealine	Crude Oil & Petroleum Products	Italy	AFT Impulse Owned VBA SW Autocad
Interconnecting Pipeline Recompression Station <i>Conceptual Design</i>	Italgas Storage	2011	-	-	Conceptual & Hydraulic Study	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Natural Gas	Italy	AFT Arrow Owned VBA SW
San Quirico – Arquata – Lacchiarella <i>Pipeline Study</i>	Shell Italia	2010-2011	10" Pipeline	110 km 600#	Hydraulic Study	Pipeline & Sealine	Diesel, gasoline	Italy	AFT Impulse Owned VBA SW
Hewett Gas Storage <i>Pigging Philosophy</i>	Eni Tecnomare	2010	32" Sealine	40 km	Pigging Philosophy	Pipeline Service	Natural Gas	UK North Sea	Owned VBA SW
Multedo – Fegino & Fegino – Multedo <i>Pipeline Requalification</i>	SEAPAD	2010	10" Pipeline	7 km 300#	Hydraulic Study	Pipeline & Sealine	Crude & Oil Products	Italy	AFT Impulse Owned VBA SW
Multedo Booster Station <i>New Pipeline Booster Pump Design</i>	SEAPAD	2010	28" Pipeline	10 km 300#	P&ID's, Basic Design Study, Hydraulic Calculation	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Crude Oil	Italy	AFT Impulse Owned VBA SW
Busalla – Multedo & Multedo – Busalla <i>Pipeline Requalification</i>	IPLOM	2010	16" Pipeline	35 km 900#	Hydraulic Study, Thickness & MAOP verification	Pipeline & Sealine	Crude Oil	Italy	AFT Impulse Owned VBA SW
Sannazzaro – Cremona <i>Pipeline Products Re-Conversion</i>	Eni R&M Div. + Tarnoil	2010	22"-26"	120km 900#	Hydraulic Study, batch study, products interface length	Pipeline & Sealine	Diesel, gasoline	Italy	AFT Impulse Owned VBA SW
Venezia – Mantova Nitrogen Displacement & Restart <i>Services</i>	IES	2010	10" Pipeline	120km 900#	Displacement Procedure, Commissioning, Hydraulic Study & Field Operations Management	Pipeline Service	Crude Oil	Italy	AFT Impulse Owned VBA SW
Cartagena-Puertollano 14" Oil Pipeline <i>Basic & Detailed Engineering</i>	Repsol/Heymo	2007	14" Pipeline	450 km 900#	Hydraulic Study, Thickness & MAOP Definition, Pumping Station Design, P&ID's, MLV Specification	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Diesel, gasoline	Spain	AFT Impulse Owned VBA SW
Bordolano Early Iniection Project <i>Compression System Design</i>	Bonatti	2009	6-8" Pipeline	900#	FEED Activities: P&ID, Equipment sizing and Data Sheets and Specification issue, Hydraulic Analysis, Instrumentation and Civil Engineering Detailed Engineering Activities.	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Natural Gas	Italy	Owned VBA SW Autocad Caeser II
Venezia Refinery <i>Revamping Isola dei Petroli</i>	Eni	2013-2014	16" - 30" Interconn.	0,5 to 1,5 km	Base & FEED Engineering Activities: P&ID, Hydraulic Analysis, Lines sizing	Refinery Plant/ Oil Depot / Truck Loading Bay Pipeline & Sealine	Petroleum Products	Italy	AFT Impulse Owned VBA SW