



SIMECO

ENGINEERS & CONTRACTORS

MAIN PROJECTS 2001÷2026

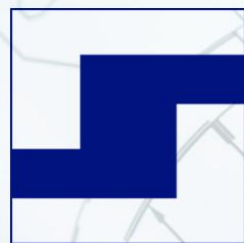
<u>PLANT</u>	<u>PROJECT / CLIENT</u>	<u>MHRS</u>
WAX HYDROTREATING PLANT	Basic Design of a new Waxes Hydrotreating Plant at Santena / SER (Sintesi & Ricerca)	15.000
CO2 CAPTURE PLANT	FEED and Detail Design for CO2 Capture Plant at Robassomero / ENI, SAIPEM/ Italy	30.000
WASTE WATER TREATMENT PLANT	Detail design for revamping of Waste Water Treatment Plant / ISAB / Italy	50.000
OFF SHORE OIL PLATFORMS	Detail Design for EPC of n.2 Offshore Oil Platforms: AMOCA WHP2 – TECOALLI / COMMSA / Mexico	200.000
WASTE TO FUEL PLANT	Front End Engineering Design of for a new plant based on Eni's proprietary W2F technology producing Bio-Oil by thermo-liquefaction of the organic fraction of Municipal Solid Wastes / Eni / Porto Marghera (Italy).	50.000
HYDROTREATING UNITS	Front End Engineering Design of Gasoil Hydrodesulphurization Unit and RFCC Gasoline Desulphurization Unit / SAIPEM / Albertine Graben Refinery Project (Uganda)	40.000
AVIATION FUEL DEPOT	Detail Design of new depot for aviation fuel storage at Bergamo Orio al Serio Airport / SACBO / (Italy)	15.000
POLYETHYLENE PLANT	Detail Engineering Design for Instrumentation, Automation, Telecommunication, Machinery, Static Equipment & Packages for Rapid Project / TECNIMONT / Malaysia.	60.000
GAS TREATMENT PLANT	Multidisciplinary Detailed Engineering for Nawara Gas Treatment Plant / ABB / Tunisia	45.000
WATER REUSE	Front End Engineering Design & Detailed Engineering for the new Water Reuse Unit including Ultrafiltration & Reverse Osmosis / ENI R&M Div. / Sannazzaro Refinery (Italy)	30.000
DEGASSING STATIONS	Front End Engineering Design for Revamping of existing installation and new units/ SAIPEM / ENI / Zubair Field (Iraq)	50.000
OFFSHORE GAS PLATFORMS	Front End Engineering Design for n. 3 new gas platforms, +/- 15% Cost Estimate, Tender Documents for EPC /ENI E&P Div. / Adriatic Sea (Italy) .	50.000
COMBINED HEAT & POWER PLANT	Front End Engineering Design, +/- 15% Cost Estimate and preparation of EPC Tender Documents for Power Plant Revamping / ENIPOWER / San Donato Milanese (Italy).	18.000
RESIDUE HYDROCRACKING UNIT	Multidiscipline Engineering Design for EST Project / ENI R&M Div. / SAIPEM / Sannazzaro Refinery (Italy)	220.000
WATER INJECTION AND POWER GENERATION UNIT	Front End Engineering Design, +/- 15% Cost Estimate and preparation of EPC Tender Documents for EPC/ Eni Oil Co. Libyan Branch / El Feel Field (Libya)	25.000
OIL PIPELINE TERMINALS	Conceptual Design and Front End Engineering Design for Trans Anatolian Pipeline Oil Storage Terminals at Cehyan and Samsun / Snamprogetti / Eni / Turkey	90.000

MAIN PROJECTS - RENEWABLE ENERGIES PROJECTS

<u>PLANT</u>	<u>PROJECT SCOPE</u>	<u>CLIENT</u>
ELECTRIFICATION OF INDUSTRIAL PROCESS	Feasibility Study for electrification of n-paraffines production at Augusta Petrochemical site, Italy.	SASOL
GREEN SYNGAS	Feasibility Study for Production of Green Syngas for decarbonization of Augusta Petrochemical Hub, Italy.	HYBLA Consortium
GREEN HYDROGEN	FEED for Modena Hydrogen Valley, Italy	SNAM
GREEN HYDROGEN	Feasibility Study for compression, storage and blending facilities of Green Hydrogen with Natural Gas, Helios Project, Frosinone, Italy	SGI (SOCIETA' GASDOTTI ITALIA)
E - FUELS	Feasibility Studies for production of e-Methanol, Sustainable Aviation Fuel, Substitute Natural Gas, Green Ammonia	ENI, POLENERGIA
SUBSTITUTE NATURAL GAS	Feasibility Study for Substitute Natural Gas (SNG) Commercial Demonstration Plant at Eni's Viggiano Oil Field, by methanation of CO2 (from CO2 capture process) with Green Hydrogen produced by electrolysis, Italy.	ENI ENIPROGETTI
BLUE HYDROGEN	Feasibility Study for production of 50,000 Nm3/h of Blue Hydrogen by Autothermal Reforming of Natural Gas with CO2 capture, Italy.	ENI ENIPROGETTI
BIOMETHANE PLANT	Basic Design of new bio-methane production plant from waste waters of bio-ethanol production plant, Crescentino, Italy.	VERSALIS
BIOGAS TO (GREEN) METHANOL	Feasibility Study for Methanol production from biogas produced from the Organic Fraction of Municipal Solid Wastes. The Plant features biogas purification to bio-methane, syngas production by Eni's SCT –CPO (Short Contact Time – Catalytic Partial Oxydation), hydrogen production by a water electrolysis unit fed by green E.E. for optimization of syngas composition for methanol synthesis and methanol synthesis (90 MTPD AA Grade).	ENI ENIPROGETTI
WASTE TO FUEL	FEED for new W2Fuel plant, Porto Marghera, Italy. The new W2Fuel plant will produce 150 ktpa of biofuel, starting from the Organic Fraction of Municipal Solid Wastes.	ENIPROGETTI
INTEGRATED PV PLANT & DIESEL GENERATOR UNIT	Electro-dynamic study of 111 kWe PV Plant + 200 kW Diesel Generator (including development of Power Management System), Agiba Solar Project, Egypt.	ENIPOWER
PV PLANTS	Detail design of PV plants: Taranto (1 MW), Ferrandina (4MW), Pisa (3.4 MW) Arezzo (1 MW), n. 26 PV plants on school rooftops, Roma (Italy).	ENIPOWER

<u>PLANT</u>	<u>SCOPE OF SERVICES</u>	<u>CLIENT</u>
REFINERY MAJOR TURNAROUND (MTA)	Preparation and planning of MTA and supervision services during the MTA to ensure the construction works were carried out according to the detail engineering design of plant modifications developed by Simeco for the following units: Topping 1, Alkylation, FCC, Sour Water Stripper, Blow-down, Power station (CTE), Tank Farm.	SARLUX
BIOPLASTIC PLANT	The scope of the PMC services was to prepare basic design, detail design, ITB documents and to carry out Technical Bid Evaluation for a new steam generation unit (LPG fired package boiler) at Porto Torres Bioplastic Plant (Italy).	MATRICA
METHANOL PLANT	Technical Advisory Services during selection of technology Licensor for the new 750,000 MTPY Methanol Plant at Jedlicze (Poland)	ORLEN POLUDNIE
HVO PLANT	Technical Advisory Services during selection of technology Licensor for the new 350,000 MTPY Hydrogenated Vegetable Oil production plant at Plock Refinery (Poland)	PKN ORLEN
TAAE PLANT	Feasibility Study for new tert-amyl-methyl ether (TAAE) production plant & Technical Advisory Services during selection of technology Licensor. TAAE is an oxygenated octane improver for gasoline.	PKN ORLEN
GASSIFICATION HYDROGEN GENERATION	The scope of the PMC services was to provide consultancy to RaM for project management and process design related to FODS (Fuel Oil Destruction) Project. The FODS Project include the installation of n.1 new Solvent Deasphalting Unit, n.1 Asphalt Gasification Unit, n.1 Air Separation Unit, as well as the revamping of the existing utilities and offsites systems (i.e. blow down, tank farm, electrical substation, ...).	RAM
POLIMER PLANT	Project Management Services during the FEED phase at FEED Contractor's premises (APS Rome) of Versalis' licensed Elastomers Plants (s-SBR, e-SBR, EPDM; total value approx. 500 MUSD) for RAPID, Refinery and Petrochemical Integrated Development Project, Pengerang, Malaysia.	VERSALIS
PETROCHEMICAL PLANT	PMC Services during revamping of ETBE (MTBE) /1-Butene plants at Ravenna petrochemical complex. PMC Services consisted in verification of detail design and construction plans prepared by the EPC contractor and supervision during construction.	VERSALIS

<u>CLIENT</u>	<u>PROJECT /LOCATION</u>	<u>CONTRACT VALUE €</u>
SNAM RETE GAS	High Pressure Natural Gas discharging system from Golar Frost FSRU to on-shore manifold	2.500.000
RAFFINERIA DI MILAZZO	Revamping of Kerosene HDS-1 Plant	16.000.000
ENI Refining & Marketing Division	New Vacuum Column & Automatic Filtration System of the Slurry Oil of the FCC Plant at Sannazzaro de Burgondi Refinery	14.000.000
ENI Refining & Marketing Division	Electrically Traced Liquid Sulfur Transfer line (4" x 1 km) from Sulphur Recovery Unit to an external plant producing Sulphur Flakes at Taranto Refinery	1.100.000
ENI Refining & Marketing Division	C4 Butylene Stream Dryer Package at Sannazzaro de Burgondi Refinery	8.500.000
POLIMERI EUROPA	API separators covering system and VOC Recovery Unit by cryogenic condensation at Sarroch Petrochemical Complex	6.000.000
RAFFINERIA DI MILAZZO	Marine Loading Arms revamping & replacement on Pier 2 – Mooring 06 bis	2.900.000
RAFFINERIA DI MILAZZO	Pier 2-Marine Loading Arms revamping: n.4 x 16" loading arms (dismantling and replacement)	3.000.000
RAFFINERIA DI GELA	New Instrumentation System (DCS) for Waste Water Treatment Unit	1.400.000
AGIP GAS	Railway Loading Arms extension for LPG storage and supply of underground tanks for Livorno LPG Storage Facilities	3.800.000



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