



S.C. PETRODESIGN S.A.
ROMANIA

*Oil & Gas Refining, Petrochemical and
Chemical Engineering Company*

COMPANY PRESENTATION

❖ *Content*



- History
- Organization
- Company profile
- Scope of services
- Divisions and departments capability
- List of main Clients
- Reference projects

❖ *History*



1948 - IPROCHIM is settled-up as an engineering institute for the entire chemical industry in Romania

1948-1989 The institute, under the name IPROCHIM, IPROSIN, IPRAN and IITPIC, draws up a big number of projects, out of which 300 for petrochemical industry.

1992 - Petrochemical Division detaches itself under the denomination PETRODESIGN S.A. with 600 employees

1998-Major stock is acquired by NUKEM GmbH Germany. Company had at that time 325 employees.

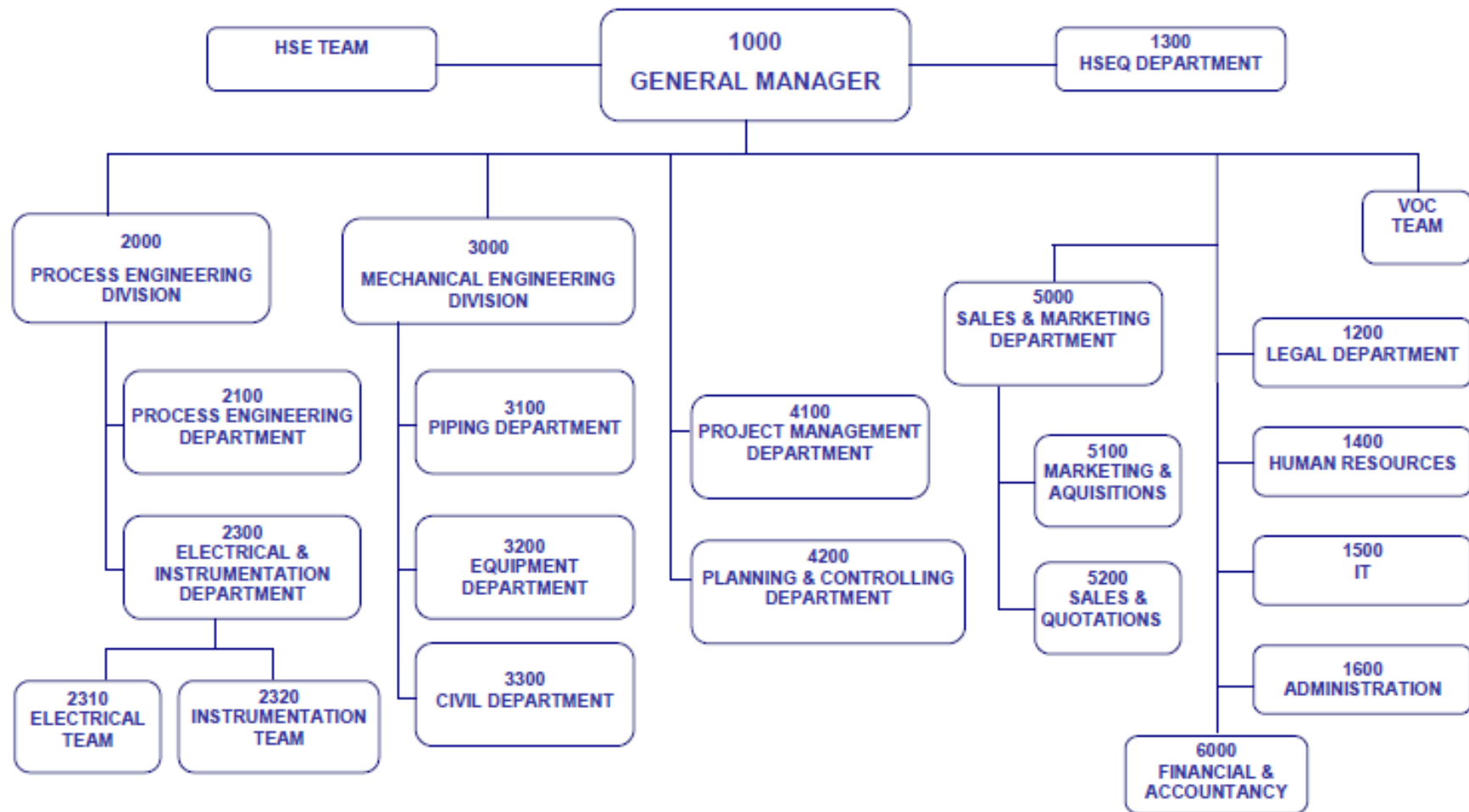
1998-2000 Company is reorganized according to Western standards reaching 150 employees.

2001- Major stock is taken over by DEXTRON LTD. UK.

❖ ***History***

- ❑ ***PETRODESIGN*** stands by tradition as one of the most important Romanian engineering companies acting in the oil refining, petrochemical and chemical industry as well as in oil & gas processing industries.
- ❑ ***PETRODESIGN*** is the valuable owner of the whole database relating to the Romanian petrochemical sector. The plants of the Romanian petrochemical complexes have been designed and supervised during construction, commissioning and operation by ***PETRODESIGN's*** specialized personnel.

❖ Organization chart





Lloyd's Register
LRQA

CERTIFICAT DE APROBARE

Acest certificat atestă că Sistemul pentru Managementul Calității al:

PETRODESIGN S.A.
Str. Căderea Bastiliei, Nr. 56-58, Sector 1, București
România

a fost aprobat de către Lloyd's Register Quality Assurance în conformitate cu următoarele standarde referitoare la Sistemul pentru Managementul Calității:

ISO 9001:2015
EN ISO 9001:2015 SR EN ISO 9001:2015

Sistemul pentru Managementul Calității este aplicabil următorului domeniu de activitate:

Proiectare de bază și de detaliu (procese, echipamente, conducte, electrice – AMC, construcții), consultanță, asistență tehnică, achiziții echipamente și instalații și studii de impact de mediu pentru instalații din rafinării, petrochimie, industria chimică și prelucrare țitel și gaze.

Certificat de aprobare nr.: BUC0170306	Aprobare inițială: 03 August 2001
	Certificat curent: 25 August 2016
	Certificatul expiră la: 31 August 2019

Emis de: Lloyd's Register (Romania) S.R.L. pentru și în numele Lloyd's Register Quality Assurance Limited



Societate înregistrată în România, înregistrată în Registrul de Comerț al Județului București, nr. 1/2011/16.0001/2011.
Pentru și în numele Lloyd's Register Quality Assurance Limited, înregistrată în Registrul de Comerț al Regatului Unit, nr. 27290747.
Certificatul este emis în conformitate cu cerințele ISO 9001:2015 și EN ISO 9001:2015.
Măsurarea nivelului de conformanță este efectuată în conformitate cu Cerințele de Acordare Numărul 001.



Lloyd's Register
LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

PETRODESIGN S.A.
56-58 Caderea Bastiliei St., 1 District, Bucharest
Romania

has been approved by Lloyd's Register Quality Assurance to the following Environmental Management System Standards:

ISO 14001:2004
EN ISO 14001:2004 SR EN ISO 14001:2005

The Environmental Management System is applicable to:

Activities including and associated with basic and detail engineering (process, equipment, piping, electrical-instrumentation, civil works), consultancy, technical support, procurement, environment impact works and general contractor activities (turn key projects) for process plants in refinery, chemical, petrochemical and oil & gas industries.

Approval Certificate No: BUC6011000	Original Approval: 05 February 2011
	Current Certificate: 01 February 2014
	Certificate Expiry: 04 February 2017

Issued by: Lloyd's Register (Romania) S.R.L.
For and on behalf of Lloyd's Register Quality Assurance Limited.



Societate înregistrată în România, înregistrată în Registrul de Comerț al Județului București, nr. 1/2011/16.0001/2011.
Pentru și în numele Lloyd's Register Quality Assurance Limited, înregistrată în Registrul de Comerț al Regatului Unit, nr. 27290747.
Certificatul este emis în conformitate cu cerințele ISO 14001:2004 și EN ISO 14001:2004.
Măsurarea nivelului de conformanță este efectuată în conformitate cu Cerințele de Acordare Numărul 001.



Lloyd's Register
LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Occupational Health & Safety Management System of:

PETRODESIGN S.A.
56-58 Caderea Bastiliei St., 1 District, Bucharest
Romania

has been approved by Lloyd's Register Quality Assurance to the following Management System Standards:

OHSAS 18001:2007
SR OHSAS 18001:2008

The Occupational Health & Safety Management System is applicable to:

Activities including and associated with basic and detail engineering (process, equipment, piping, electrical-instrumentation, civil works), consultancy, technical support, procurement, environment impact works and general contractor activities (turn key projects) for process plants in refinery, chemical, petrochemical and oil & gas industries.

Approval Certificate No: BUC6011001	Original Approval: 14 February 2011
	Current Certificate: 07 February 2014
	Certificate Expiry: 13 February 2017

Issued by: Lloyd's Register (Romania) S.R.L.
For and on behalf of Lloyd's Register Quality Assurance Limited.



Societate înregistrată în România, înregistrată în Registrul de Comerț al Județului București, nr. 1/2011/16.0001/2011.
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Certificatul este emis în conformitate cu cerințele OHSAS 18001:2007 și SR OHSAS 18001:2008.
Măsurarea nivelului de conformanță este efectuată în conformitate cu Cerințele de Acordare Numărul 001.

PETRODESIGN has its own **HSEQ Manual** being certified by **Lloyd's Register Quality Assurance** to **ISO 9001 – 2015, ISO 14001:2004 and OHSAS 18001:2007 standards**, for basic and detailed engineering, consultancy, technical support, procurement, environmental impact works and general contractor activities (turn key projects) for process plants in chemical, petrochemical and oil & gas industries

❖ *Activity field*



- **Refineries**
- **Petrochemistry**
- **Chemistry**

❖ **Scope of services**

- 📄 Pre-Feasibility and Feasibility Studies
- 📄 Market Studies
- 📄 Environmental Studies
- 📄 Basic engineering
- 📄 FEED
- 📄 Detail Engineering
- 📄 Authority Engineering, Safety Analyses
- 📄 Risk analysis, HAZOP/HAZID, SIL/LOPA studies
- 📄 Project management
- 📄 Procurement and expediting
- 📄 Technical Assistance for construction and commissioning
- 📄 Personnel training

❖ **Engineering Services**

PETRODESIGN provided engineering services to the following international Companies:

- ⇒ LURGI Germany
- ⇒ KRUPP UHDE Germany
- ⇒ HOUDRY USA
- ⇒ BASF Germany
- ⇒ MONTECATINI Italy
- ⇒ DYNAMIT-NOBEL Sweden
- ⇒ MITSUI Japan
- ⇒ GIPROKAUTCHUK Russia
- ⇒ KTI The Netherlands
- ⇒ SCIENTIFIC DESIGN USA
- ⇒ DEGUSSA Germany
- ⇒ DE NORA Italy
- ⇒ LINDE France & Germany
- ⇒ TOYO ENGINEERING Japan
- ⇒ LITWIN France
- ⇒ INQUINOSA Spain
- ⇒ SNAMPROGETTI Italy
- ⇒ G.T.C. USA
- ⇒ LE GAZ INTEGRAL France
- ⇒ CONOCO PHILLIPS USA

❖ **Modern tools**

Process-Simulation

- ✓ **PIPE FLOW EXPERT**
- ✓ **FlareNet**

Detail Engineering

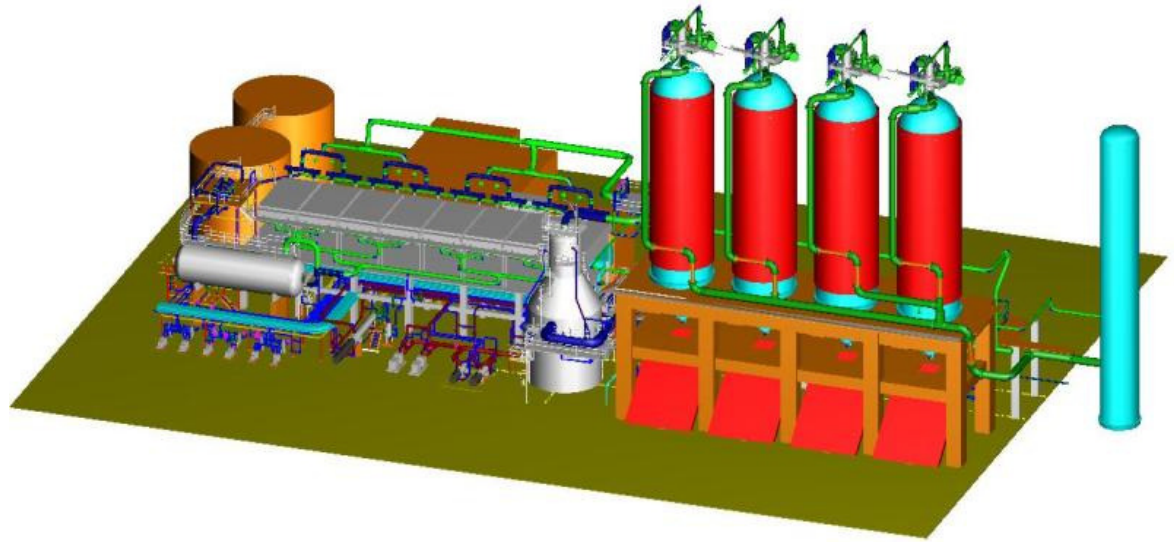
- ✓ **PDMS**
- ✓ **PDS**
- ✓ **AutoCAD**
- ✓ **CADWORX**
- ✓ **SMART PLANT P&ID**
- ✓ **SMART PLANT ISOMETRICS**
- ✓ **CADPIPE (ORTHO+ISO+P&ID)**
- ✓ **CESAR II**
- ✓ **GRAITEC Advance & Concrete**

Project Planning

- ✓ **Primavera**
- ✓ **MS Project**

DTP Package

- ✓ **MS-office (Word, Excel, Access, Power-point, Publisher)**



❖ ***Company certificates & authorisations***

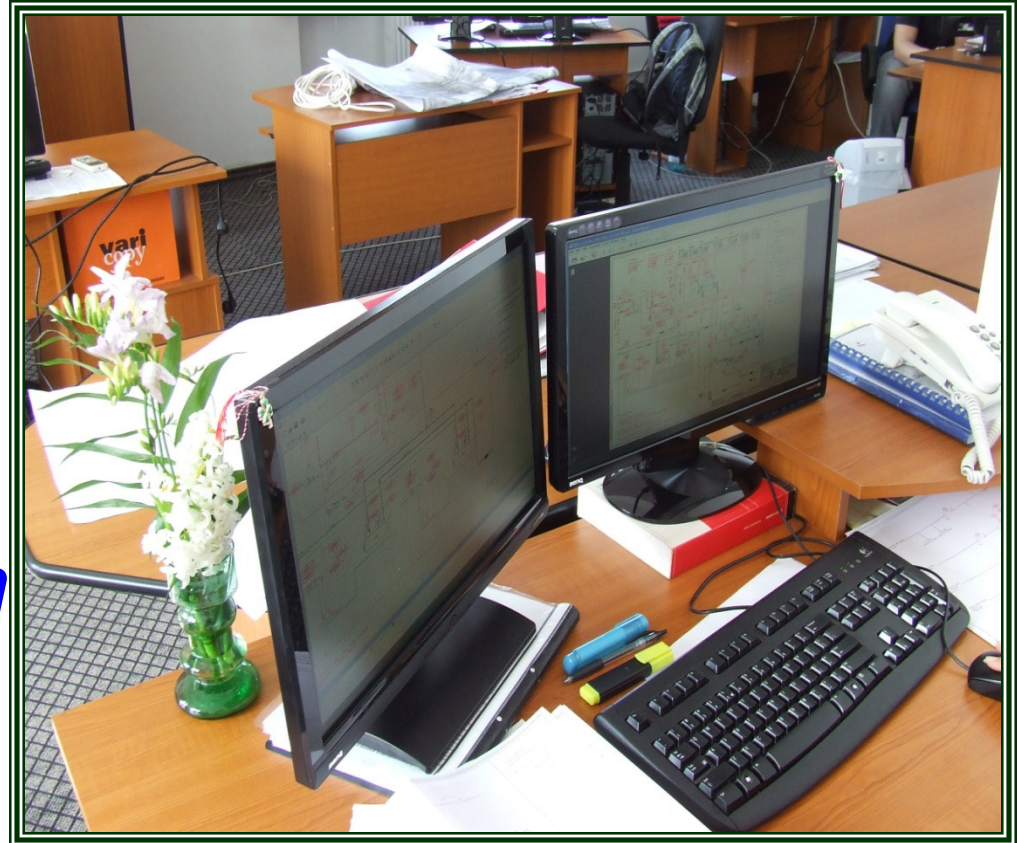
PETRODESIGN has qualified personnel authorized by:

- **ISCIR-INSPECT – State Inspection for Boilers, Pressure Vessels and Lifting Installations;**
- **INSEMEX Petrosani, Romania – National Institute for Mine Security and Explosion Protection;**
- **A.N.R.E. – S.D.B. – Romanian National Power Company;**
- **ROMANIAN MINISTRY OF ENVIRONMENT AND SUSTAINABLE DEVELOPMENT - Environmental Impact Studies;**
- **ROMANIAN MINISTRY OF ECONOMY AND FINANCE – VOC emission control by plant inspection and documents approval;**
- **ROMANIAN MINISTRY OF INTERNAL AND ADMINISTRATIV REFORM – General Department of Police : Design of safeguard and intrusion protection alarm system;**
- **GENERAL INSPECTORATE FOR EMERGENCY SITUATIONS – Fire fighting related design activities**
- **ROMANIAN CIVIL AERONAUTICAL AUTHORITY;**

❖ **PROCESS ENGINEERING DIVISION**

Departments and Teams

- *Process*
- *Electrical*
- *Instrumentation*

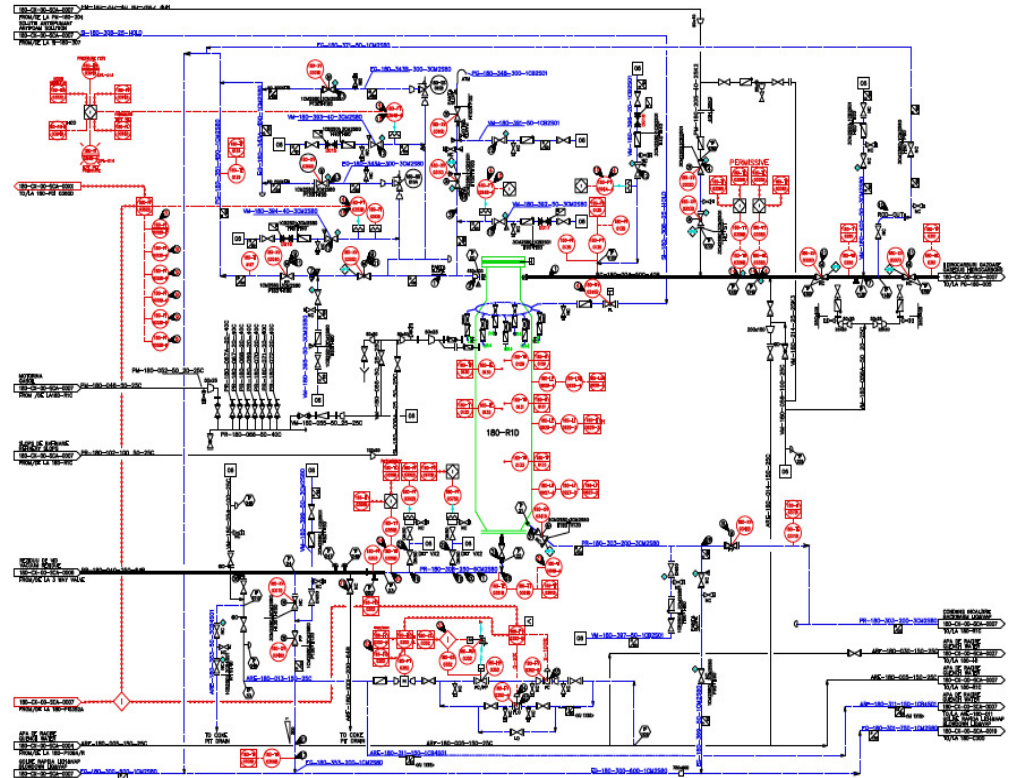


❖ **PROCESS ENGINEERING DIVISION**

Process Department

Typical products:

- Process flow diagrams
- P&IDs (equipment, piping and I&C)
- Basic Engineering Completion
- Process simulation
- Data sheets for static and dynamic equipment
- Data sheets for safety devices
- Bill of materials and Utility balances
- Operating manuals
- Risk assessment
- Environment documentations
- Hazardous area classification

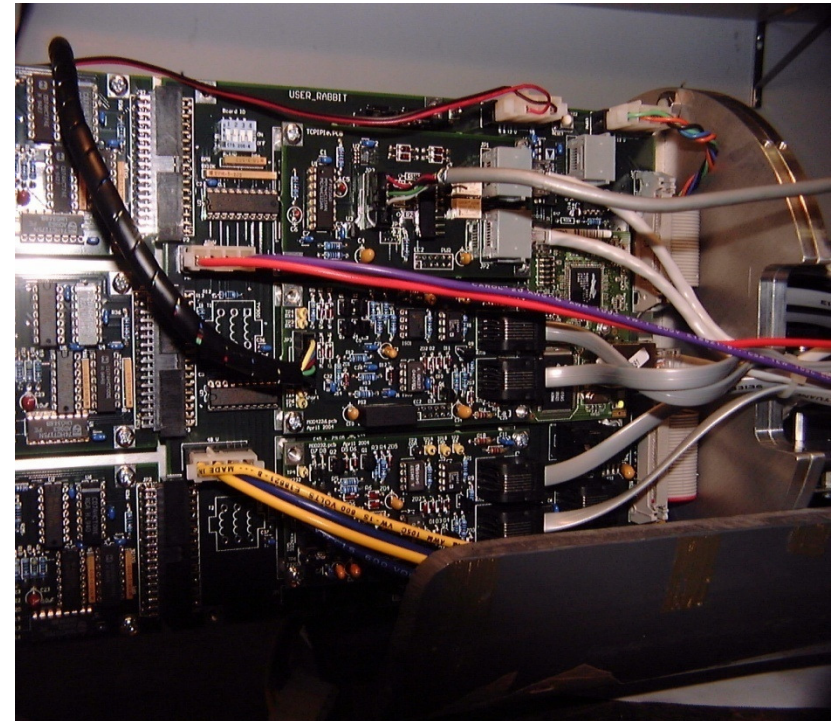


❖ **PROCESS ENGINEERING DIVISION**

Electrical Department

Typical Products:

- Medium and low voltage transformer and distribution substations
- High voltage stations, lighting stations, earthing and lightning systems in normal and hazardous environment
- Electrical distribution networks
- DC power supply rectifier substations
- Charging battery systems and UPS
- Micro power stations with Diesel
- Reactive energy compensators
- Hazardous area classification

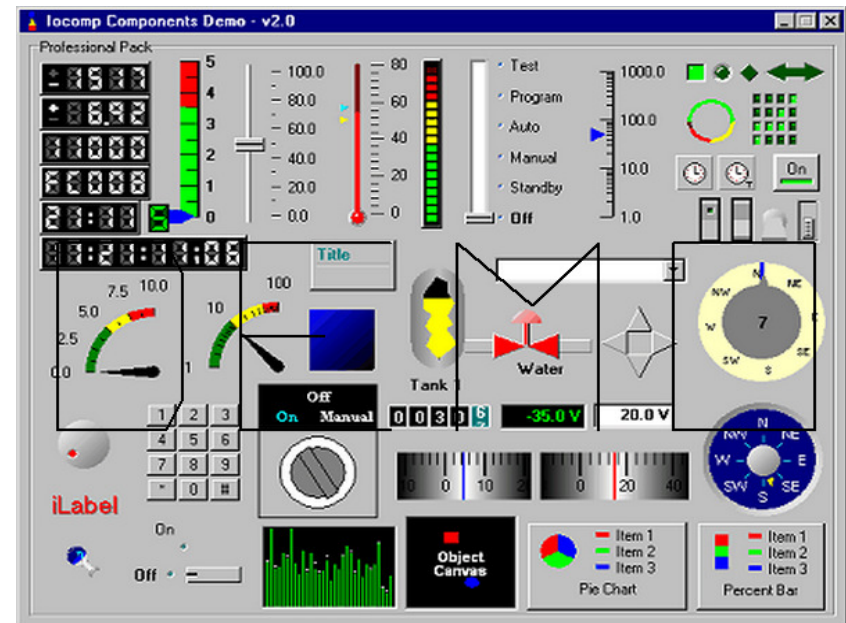


❖ **PROCESS ENGINEERING DIVISION**

Instrumentation Department

Typical Products:

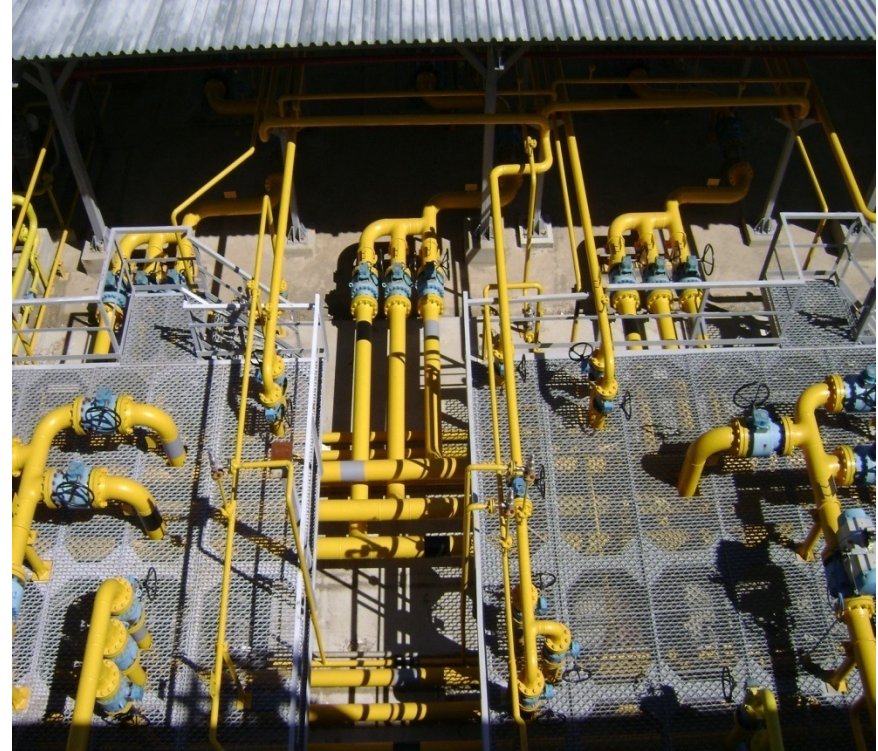
- Concepts and basic data for DCS and PLC
- Specifications for systems, field instruments and cables
- Detail specifications for control loops
- Interlocking diagrams
- Cause-effect diagrams
- Assembly details
- SIL/LOPA Analysis



❖ **MECHANICAL ENGINEERING DIVISION**

Departments and Teams

- ***Piping***
- ***Equipment***
- ***Civil***
 - Plot plan
 - Architecture
 - Concrete/Foundations
 - Steel structures



❖ ***MECHANICAL ENGINEERING DIVISION*** ***Equipment Department***

Typical products:

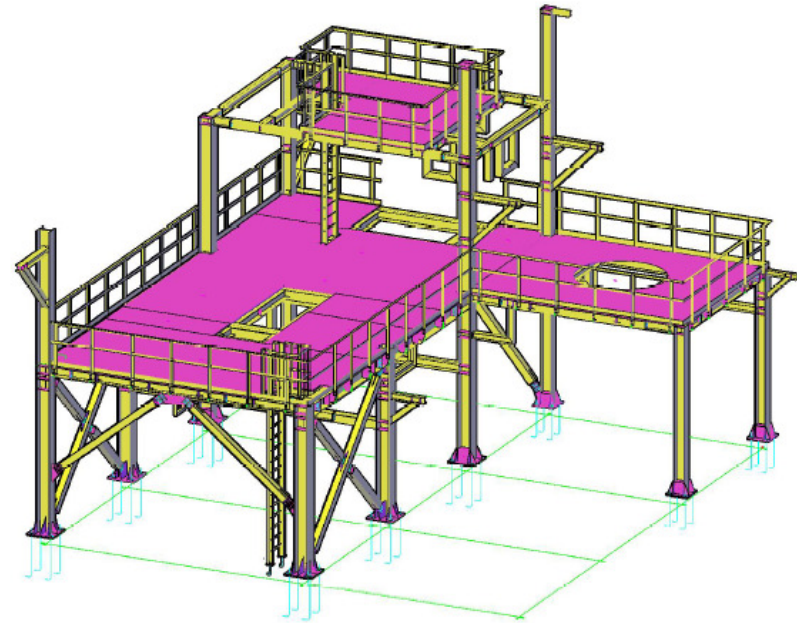
- Shop drawings for static equipment: vessels, exchangers, columns, scrubbers
- Material requisitions for items of equipment
- Checking and approval of the documentation received from Vendors
- Spare parts list
- Bill of materials

❖ **MECHANICAL ENGINEERING DIVISION**

Civil Department

Typical Products:

- Strength and stability calculations
- Arrangements & details for steel structures, foundations and pillars
- Excavation and reinforcement drawings
- Preliminary measurements and estimates
- Quality control programs
- Architectural drawings: perspectives, views, cross sections
- Plot plan and layout plan



❖ ***PROJECT MANAGEMENT DEPARTMENT***

Teams

- *Project Management*
- *Project Planning and Controlling*

Typical products:

- Project coordination
- Work breakdown structure
- Time schedule of project
- Control of resources and costs
- Progress reports
- Inquiries and works orders for subcontractor

❖ ***SALES AND MARKETING DEPARTMENT***

Teams

- *Marketing & Aquisitions*
- *Sales & Quotation*

Typical products:

- Promotion and information
- Exhibitions and symposiums
- Market monitoring for products, investments and services
- Technical and Commercial offers
- Contracts analysis

❖ **PETRODESIGN MAIN ABROAD CLIENTS**

- LINDE AG – Germany
- LINDE – France
- LE GAZ INTEGRAL – France
- CB&I LUMMUS s.r.o – The Czech Republic
- NEXANT / CHEMSYSTEMS – U.S.A.
- CONTROLEC – The Netherlands
- INEOS NOVA – The Netherlands
- TESSAG – EDELEANU Gmbh – Germany
- CONSOLIDATED CONTRACTORS COMPANY – Kuwait
- KUWAIT SHIPBUILDING AND REPAIRYARD COMPANY
- KAZGERMUNAI - Kazakhstan
- BAYWOOD CONTINENTAL LIMITED – Nigeria
- BAYWOOD DEXTRON VENTURES
- CHROME CONSORTIUM – Nigeria
- CHEVRON NIGERIA LIMITED
- SK ENGINEERING & CONSTRUCTION CO. LIMITED – South Korea
- TEHMASCHIMPORT – Russia
- TEHMASCHIMPORT – Ukraine
- ALEXANDRIA PETROLEUM COMPANY – Egypt
- PETROJET – Egypt
- SUDANESE PETROLEUM PIPELINES HOLDING COMPANY
- CASALE - Switzerland

❖ **Abroad Main Projects**

ITEM	PROJECT DENOMINATION	CLIENT/CONTRACTOR	DELIVERY DATE
1	Oil Refinery – intermediate storage tanks - Turkmenistan	<u>EDELEANU GmbH Germany</u> EDELEANU GmbH	1998
2	Akshabulak Oil Field Development – Kazakhstan Gas/oil separation and treatment plant	<u>INDUSTRIALEXPORT S.A.</u> <u>RWE-DEA Germany</u>	2000
3	Petroleum Condensate Fractionation Project. – Alexandria, Egypt	<u>INDUSTRIALEXPORT S.A.</u> <u>UOP - USA</u>	1999-2000
4	Installation of two 100,000 bbls Free Water Knock-out Tanks (with Vortex system)	<u>KUWAIT SHIP BUILDING & REPAIR YARD CO.</u> <u>Kuwait Oil Company</u>	2001
5	VCM capacity extension to OLTCHIM Petrochemical Complex – Basic Engineering	<u>S.A.T. LINDE - France</u>	2002
6	Oily water collection and separation system – Detail Engineering	<u>CONSOLIDATED CONTRACTORS COMPANY (KUWAIT)</u> <u>Kuwait Oil Company</u>	2002
7	Feasibility Study for Modernizations at Petromidia Complex	<u>NEXANT / CHEMSYSTEMS - USA</u>	2002
8	Design of Oil Spreader and Oil Collector - Detail Engineering	<u>KUWAIT SHIP BUILDING & REPAIR YARD CO.</u> <u>Kuwait Oil Company</u>	2002
9	Sulphuric Acid Alkylation Unit	SK Engineering & Construction Co. Limited (Korea)	2004
10	FEED for Jebel Dhanna Terminal – Electrical Power System Upgrade	<u>Fichtner GmbH & Co. KG</u>	2005

❖ **Abroad Main Projects**

ITEM	PROJECT DENOMINATION	CLIENT/CONTRACTOR	DELIVERY DATE
11	FCC (Vacuum Distillate) Hydrotreating	<u>SK Engineering & Construction Co. Limited</u> (Korea)	2005
12	Improvement to water treatment plant at Sabrya and Modification of Central Pumping Facilities at Sabrya – Detail Engineering	<u>CONSOLIDATED CONTRACTORS COMPANY</u> (KUWAIT) Sabrya - Kuwait	2005
13	Additional Storage Tank Project	GTC Technology Inc - Huston	2006
14	Solvent Blending Station	<u>GTC</u> for LIDONG - China	2006
15	OREDO Flowstation Relocation & Upgrade – Detail Engineering	<u>BAYWOOD CONTINENTAL LTD</u> Nigerian Petroleum Development Company	2006
16	Third demineralization train and one additional water storage tank	<u>CHROME CONSORTIUM</u> for Port Hartcourt Refinery Company Nigeria	2007
17	ESCRAVOS Tanks 3,5 and 9 major repairs and upgrade project – Detail Engineering	<u>CHEVRON NIGERIA LTD</u> Baywood-Dextron Consortium	2008
18	Midia C3 + Recovery Plant – Detail Engineering	<u>LINDE ENGINEERING</u> - Germany	2008
19	Gas Sweetening Unit Checking and Endorsement Basic Design	<u>CHAGALESH, Iran</u> For Kish Gas Refinery	2010
20	Gas oil & gasoline storage depot and related facilities	SUDANESE PETROLEUM PIPELINES HOLDING COMPANY	2012

❖ ***PETRODESIGN MAIN DOMESTIC CLIENTS***

- OMV PETROM S.A. – PETROBRAZI Refinery – Ploiesti City
- ROMPETROL – PETROMIDIA Refinery – Navodari City
- PETROM AVIATION
- OLTCHIM Petrochemical Complex – Ramnicu Valcea City
- PETROTEL LUKOIL – TELEAJEN Refinery – Ploiesti City
- BUTAN GAS ROMANIA

❖ **Main Projects in Romania**

ITEM	PROJECT DENOMINATION	CLIENT/CONTRACTOR	DELIVERY DATE
1	Maleic Anhydride Plant - Revamping Detail Engineering	KLOCKNER INA/SD for PETROBRAZI	1995
2	Lindane Plant Detail Engineering	<u>OLTCHIM PETROCHEMICAL COMPLEX</u> OLTQUINO	1998
3	Revamp of Electrolysis IV Detail Engineering	<u>OLTCHIM PETROCHEMICAL COMPLEX</u> UHDE	1997
4	Wastes incineration & HCl recovery Detail Engineering	<u>OLTCHIM PETROCHEMICAL COMPLEX</u> KREBS	1997
5	Additional steam boiler for Pyrolysis Unit Full Engineering	<u>ROMPETROL RAFINARE</u> PETROMIDIA COMPLEX	1997
6	Sodium cyanide Detail Engineering	<u>PETROM S.A. – ARPECHIM REFINERY</u> LITWIN France	1997
7	Thermorom Steam Boiler installation 25 t/h in DTM plant – Full Engineering	<u>PETROM S.A. – ARPECHIM REFINERY</u>	1996
8	Oil terminals in Halmeu, Dornesti, Holboca and Tulcea – Full Engineering	<u>UNICOM TRANZIT</u>	1998
9	Cogeneration Plant - 60 MW Detail Engineering (alongside I.S.P.E.)	<u>PETROM S.A. – PETROBRAZI REFINERY</u> HYUNDAY	2000
10	Demineralized Water Plant Detail Engineering	<u>PETROM S.A. – PETROBRAZI REFINERY</u> I.S.P.E.	2000

❖ **Main Projects in Romania**

ITEM	PROJECT DENOMINATION	CLIENT-CONTRACTOR	DELIVERY DATE
11	Sea terminal for LPG & petroleum products Full Engineering	<u>ROMPETROL RAFINARE</u> PETROMIDIA COMPLEX	2001
12	Propylene Advanced Purifying System Full Engineering – internal floating roof, automatic tank dewatering system, fire fighting system, RADAR	<u>ROMINSERV S.A.</u> ROMPETROL Refinery	2003
13	C5+ isomerization within Petromidia Complex, 60.000 t/y – Full Engineering	<u>ROMINSERV S.A.</u> ROMPETROL Refinery	2003
14	Installation of an additional hydrofining reactor within VDH plant, 1.5 Mb/d – Full Engineering	<u>ROMINSERV S.A.</u> ROMPETROL Refinery	2003
15	In-line Blending Plant Detail Engineering	<u>FMC Blending & Transfer USA</u> for ROMPETROL Refinery	2003
16	Revamp of tanks sealing system Full Engineering	<u>PETROM/OMV</u> PETROBRAZI Refinery	2003
17	Revamp of fuel oil storage tanks – Full Engineering	<u>PETROM/OMV</u>	2004
18	Thermal oxidation plant Detail Engineering	<u>VICHEM – France</u> for PETROM/OMV – ARPECHIM Refinery	2004
19	Revamping of waste water treatment plant Detail Engineering	<u>ROMINSERV S.A.</u> ROMPETROL Refinery	2005

❖ *Main Projects in Romania*

ITEM	PROJECT DENOMINATION	CLIENT-CONTRACTOR	DELIVERY DATE
20	Revamp of waste water stripping plant Full Engineering	<u>ROMINSERV S.A.</u> ROMPETROL Refinery	2005
21	Revamp of polypropylene unit, 80.000 t/y Full Engineering	<u>ROMINSERV S.A.</u> ROMPETROL Refinery	2004
22	Loading/unloading system and cryogenic storage facilities – Full Engineering	<u>ROMINSERV S.A.</u> ROMPETROL Refinery	2005
23	Fiscal measuring system for excisable petroleum products – Detail Engineering	<u>PETROMSERVICE</u> for PETROM/OMV	2005
24	Flow rating system for petroleum products Detail Engineering	<u>ROMINSERV S.A.</u> ROMPETROL Refinery	2005
25	Revamp of Hamon Towers – Detail Engineering	<u>PETROM/OMV</u> PETROBRAZI Refinery	2004
26	Revamp of Towers RC 1, RC 2 – Full Engineering	<u>PETROM/OMV</u> PETROBRAZI Refinery	2004
27	Sulphur Recovery TGT Unit Detail Engineering	<u>LE GAS INTEGRAL - France</u> for PETROTEL LUKOIL	2006
28	Control rooms protection for risk / environmental / safety improvement – Feasibility Study	<u>PETROM/OMV</u> ARPECHIM Refinery	2006

❖ *Main Projects in Romania*

ITEM	PROJECT DENOMINATION	CLIENT-CONTRACTOR	DELIVERY DATE
29	Revamping of Sulfur Recovery Unit Detail Engineering	<u>LE GAS INTEGRAL - France</u> for ROMPETROL Refinery	2006
30	Modernization of the flare system related to Steam Cracker II – Detail Engineering	<u>PETROM/OMV</u> ARPECHIM Refinery	2007
31	On/off valves Feasibility Study	<u>PETROM/OMV</u> ARPECHIM Refinery	2007
32	Revamp of landfill oily sludge separation processing plant – Detail Engineering	<u>ROMINSERV S.A.</u> PETROMIDIA Refinery	2007
33	Sulfur Recovery & Amine Treating Units Condition Assessment Level 2	<u>PETROM/OMV</u> ARPECHIM Refinery	2007
34	Sulfur Recovery & Amine Treating Units Condition Assessment Level 2	<u>PETROM/OMV</u> PETROBRAZI Refinery	2007
35	Revamping of Sulfur Recovery Unit Detail Engineering	<u>LE GAS INTEGRAL - France</u> for RAFO Refinery	2008
36	Albotesti Tank Farm Full Engineering	<u>Epstein</u> for PETROM/OMV	2008
37	Optimization of the fire fighting water system Feasibility Study	<u>PETROM/OMV</u> ARPECHIM Refinery	2008
38	Sour Water Stripping Unit Feasibility Study & Basic Design	<u>PETROM/OMV</u> ARPECHIM Refinery	2008

❖ **Main Projects in Romania**

ITEM	PROJECT DENOMINATION	CLIENT-CONTRACTOR /	DELIVERY DATE
39	Expandable Polystyrene Unit Basic Engineering	INEOS NOVA, for EPS Plant, Medgidia	2009
40	Site survey and Design for OSBL Logistic - FEED	<u>CB&I LUMMUS</u> for PETROBRAZI Refinery	2009
41	Sewage System Revamp - FEED	<u>PETROM/OMV</u> PETROBRAZI Refinery	2009
42	4.000 m3 LPG fuel Depot and Bottling Station – Full Engineering	<u>BUTAN GAZ, ROMANIA</u>	2010
43	Revamp of Hamon Cooling Water System – Feasibility Study	<u>OMV PETROM</u> <u>PETROBRAZI Refinery</u>	2010
44	Izomerization Unit Revamp - FEED	<u>OMV PETROM</u> PETROBRAZI Refinery	2011
45	Diesel and gasoline loading/unloading facilities in Cristesti-lasi - Detail Engineering	COMPRESSOR PUMP INDUSTRIAL	2011
46	Hexan delivery pipeline to berth no. 9B – Detail Engineering	<u>ROMINSERV S.A.</u> PETROMIDIA Refinery	2011
47	HDV Unit reconfiguration – Detail Engineering	<u>ROMINSERV S.A.</u> PETROMIDIA Refinery	2011
48	New LPG Truck Loading Ramp – FEED	<u>OMV PETROM</u> PETROBRAZI Refinery	2012

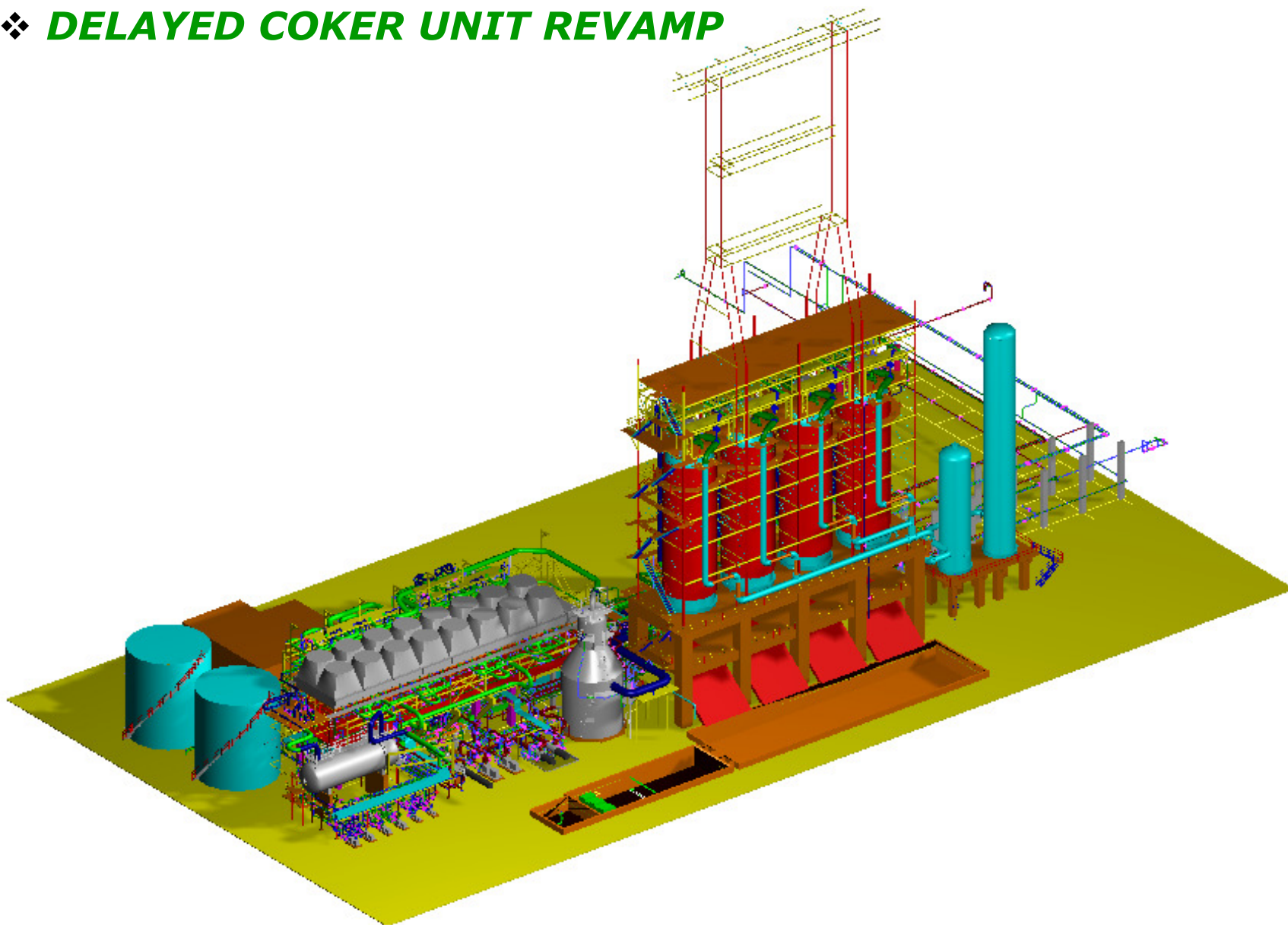
❖ **Main Projects in Romania**

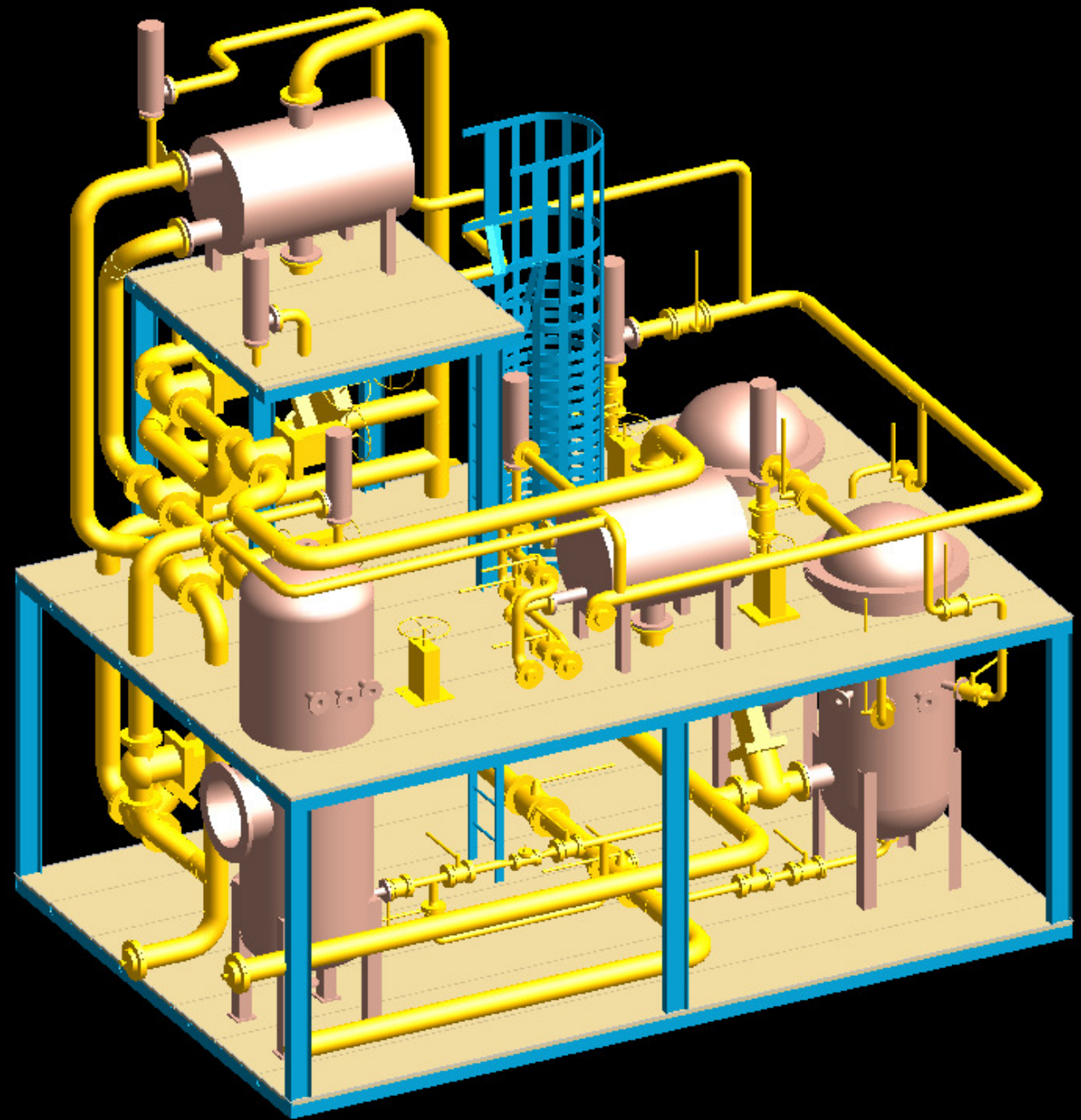
ITEM	PROJECT DENOMINATION	CLIENT/CONTRACTOR	DELIVERY DATE
49	ESP Dust Filter – FCC Plant – FEED Phase	<u>OMV PETROM</u> PETROBRAZI Refinery	2012
50	Foam & cooling system for Petrobrazi storage tanks – Feasibility Study	<u>OMV PETROM</u> PETROBRAZI Refinery	2012
51	Revamp of the Utilities Networks (gas, air and nitrogen) in Petrobrazi Refinery - FEED	<u>OMV PETROM</u> PETROBRAZI Refinery	2012
52	Replace turbines with electric motors – Detail Engineering	<u>OMV PETROM</u> PETROBRAZI Refinery	2012
53	New DGRS Unit in Petrobrazi Refinery (civil & steel structures) – Detail Engineering	LGI, France for <u>OMV PETROM</u> PETROBRAZI Refinery	2012
54	LTS Skid and Condensate Stabilization Package for gas processing facility	<u>ALCONEX</u> for <u>OMV PETROM</u>	2012
55	LPG sampling system – Feasibility Study	<u>OMV PETROM</u> PETROBRAZI Refinery	2012
56	Implementation of Quality Risk Assessment Study requirements in Petrobrazi Refinery – Feasibility Study	<u>OMV PETROM</u> PETROBRAZI Refinery	2012
57	Pipes and equipments technical expertise for the Pyrolysis Plant	<u>ROMINSERV S.A.</u> PETROMIDIA Refinery	In progress

❖ **Main Projects in Romania**

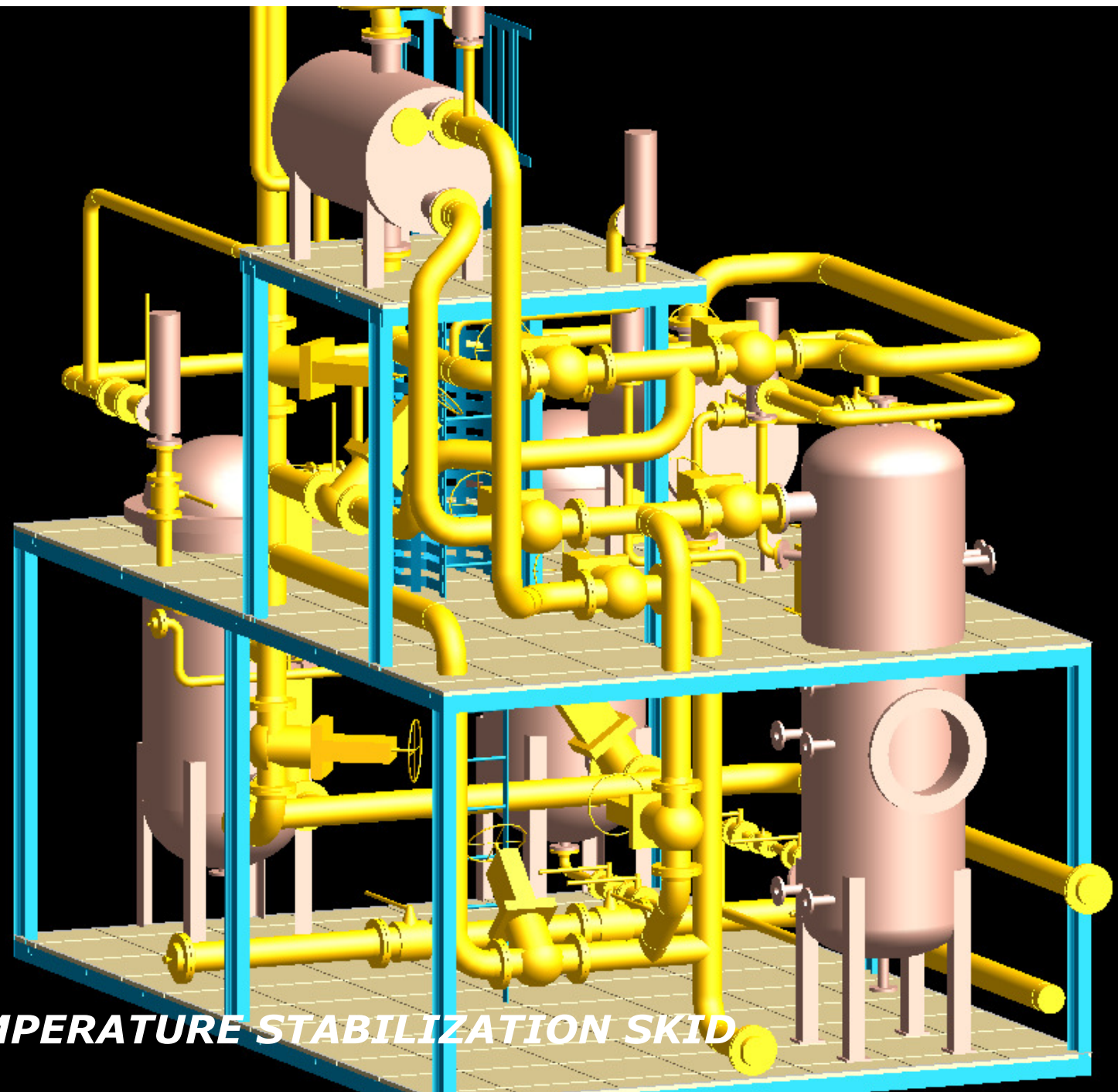
ITEM	PROJECT DENOMINATION	CLIENT/CONTRACTOR	DELIVERY DATE
58	Delayed Coker Unit revamp– Closed Blowdown System – Detail Engineering	<u>ROMINSERV S.A.</u> PETROMIDIA Refinery	2013
59	C3+ hydrocarbons recovery unit – Feasibility Study	<u>ROMINSERV S.A.</u> PETROMIDIA Refinery	2013
60	Revamp of Waste Water Treatment Plant in Petrobrazi Refinery – Detail Engineering	WABAG WATER SERVICES	2013
61	Install self washing filters on the water pumped from the Waste Water Treatment Plant	<u>OMV PETROM</u> PETROBRAZI Refinery	2013
62	Revamp of Petrochemical Demi Water Plant – Solution Selection Phase	<u>OMV PETROM</u> PETROBRAZI Refinery	2013
63	Condensate recovery from steam tracers and drain steam system in Cogeneration Unit – Detail Engineering	<u>OMV PETROM</u> PETROBRAZI Refinery	2013
64	SBM Industrialization Project – Detail Engineering	ISOVER SAINT - GOBAIN	2014
65	Flue Gas Desulphurization Unit at Govora Power Plant - – Detail Engineering	ENERGOMONTAJ S.A. for BABCOCK NOEL	In progress
66	Revamp of Ammonia 3 & Ammonia 4 Units in AZOMURES (Civil & Steel Structures) – Detail Engineering	CASALE	In progress
67	Frame Agreement for Repair and Maintenance Works in Petrobrazi Refinery, between 2015 - 2018	<u>OMV PETROM</u> PETROBRAZI Refinery	In progress

❖ **DELAYED COKER UNIT REVAMP**

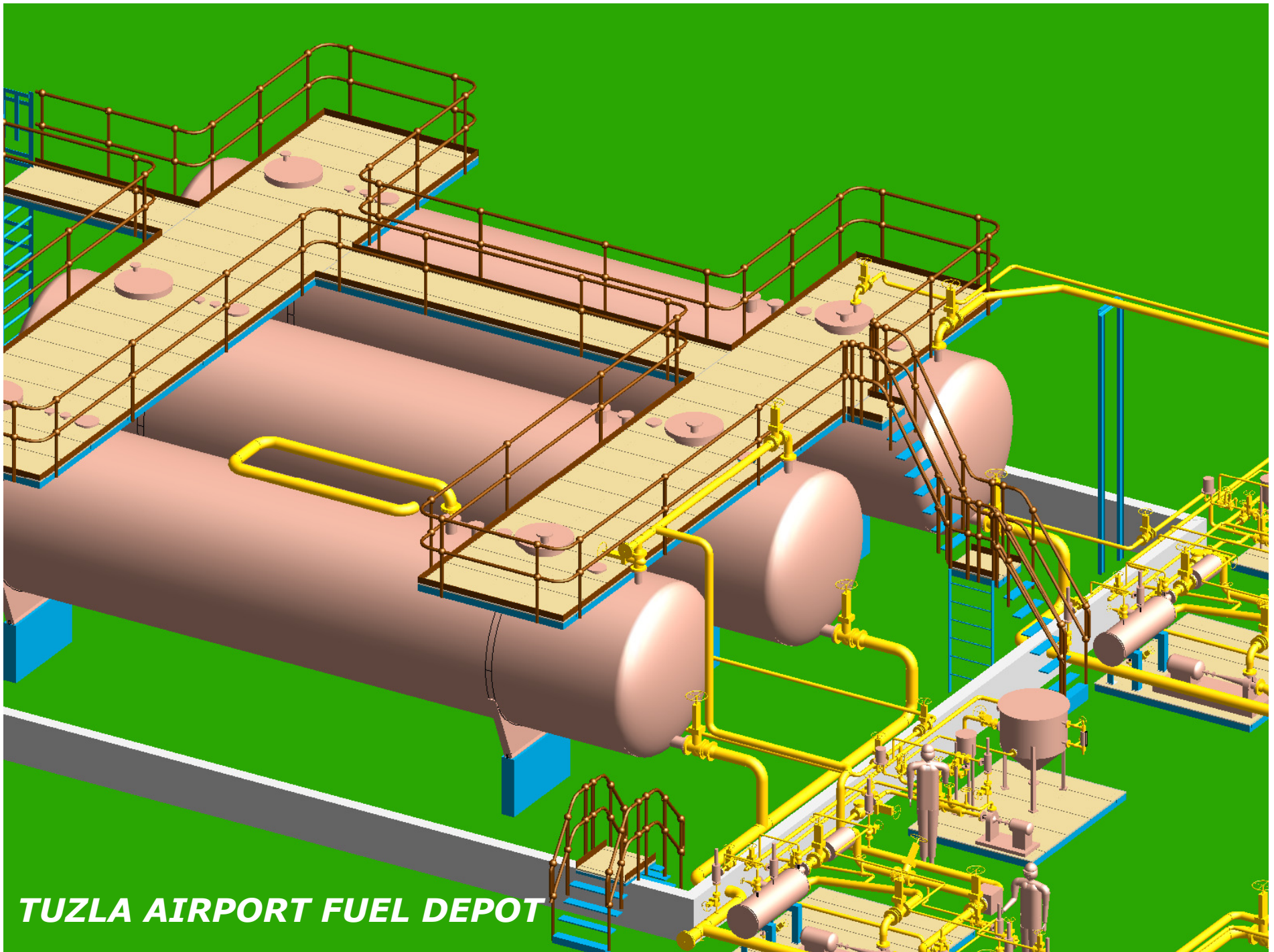




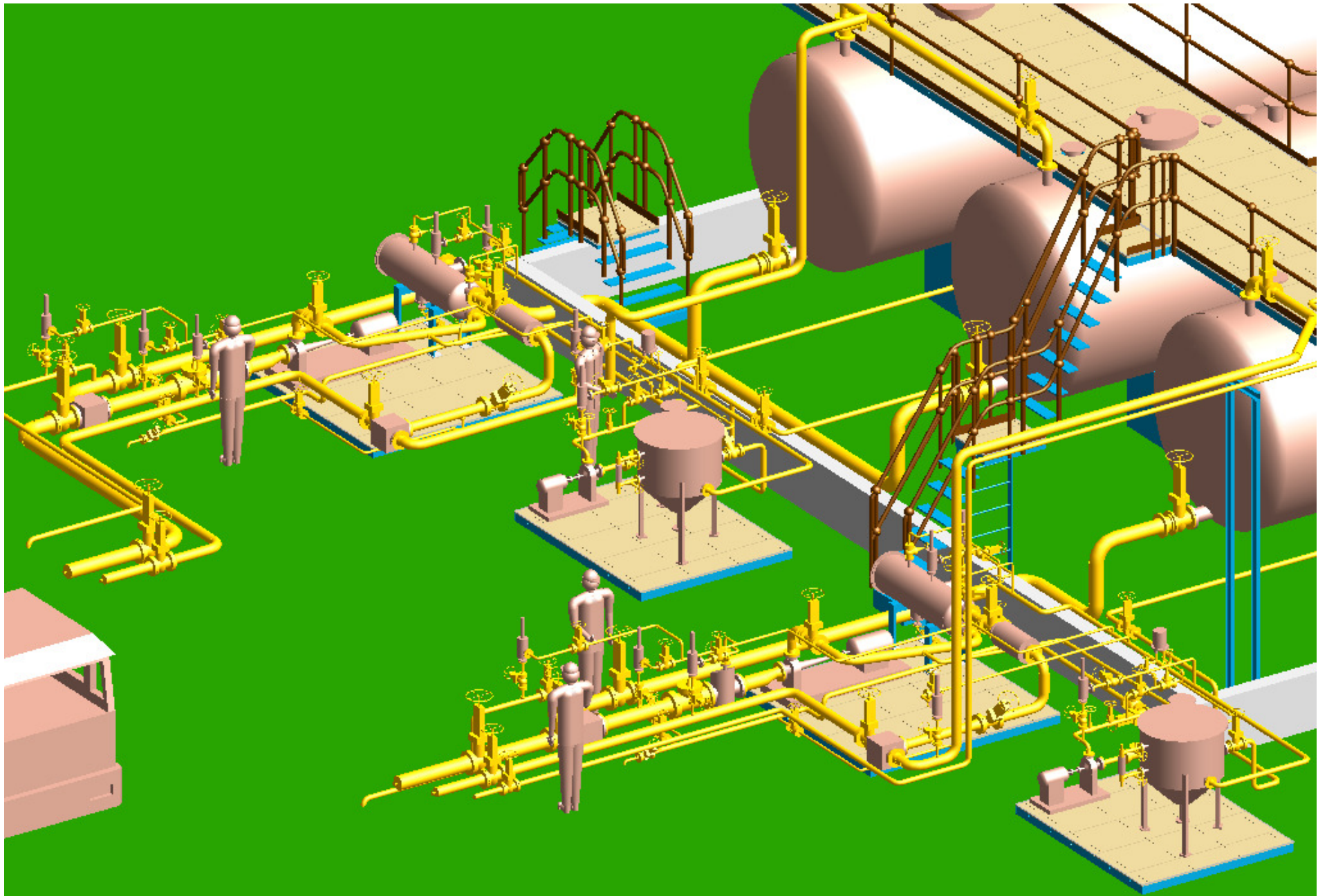
LOW TEMPERATURE STABILIZATION SKID



LOW TEMPERATURE STABILIZATION SKID

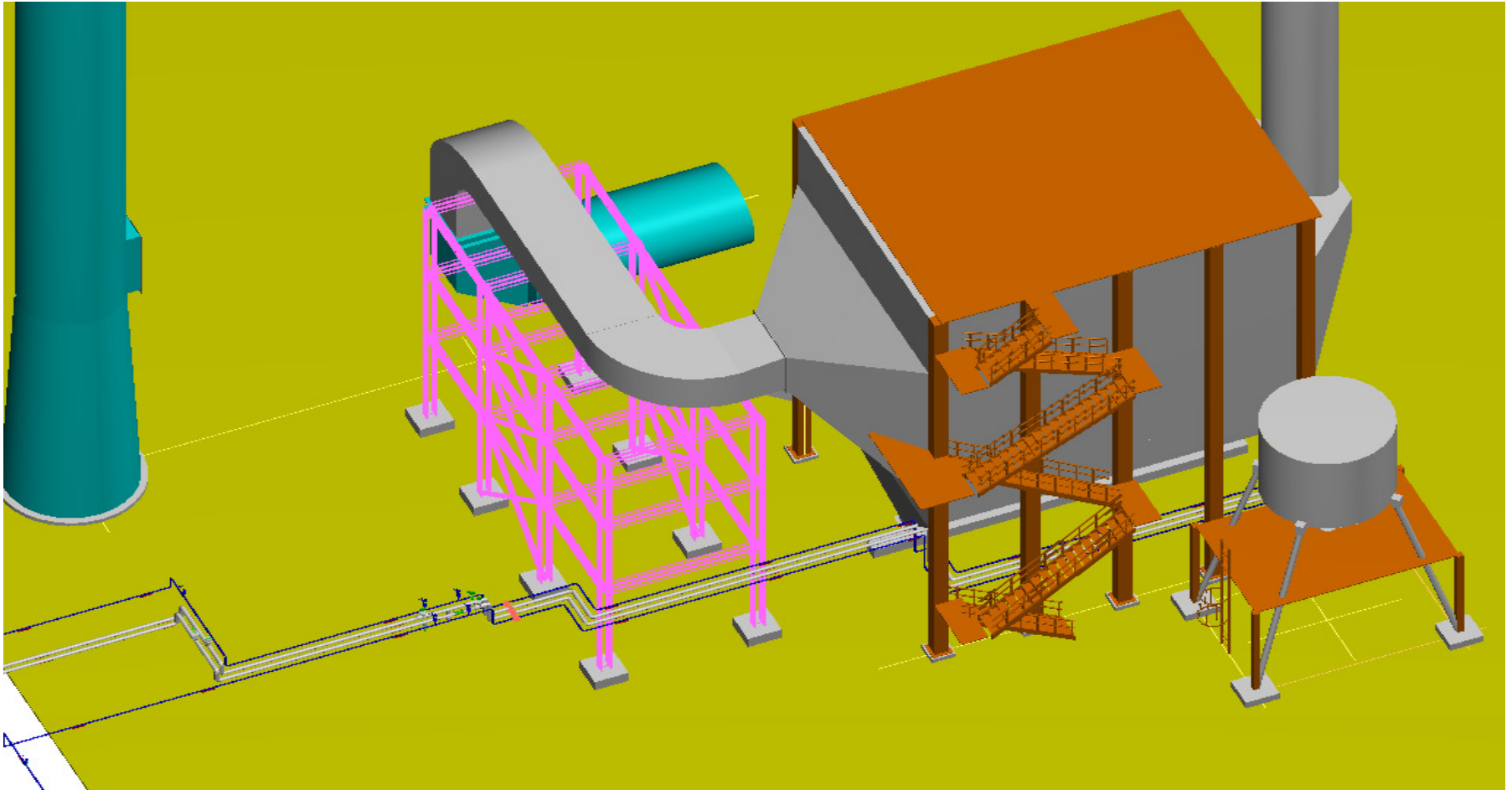


TUZLA AIRPORT FUEL DEPOT



TUZLA AIRPORT FUEL DEPOT

❖ **ESP DUST FILTER – FCC PLANT**





LPG FUEL DEPOT AND BOTTLING STATION - Contesti



2010/01/10 14:06

FUEL STORAGE TANK - Nigeria