



Energy & Industrial Projects



ABOUT US

ENCOM Engineering was founded on 2005 in Athens, by inspired engineers with passion in perfection.

In the following evolution years, ENCOM formed as a multi-disciplinary engineering and consulting company, providing high quality services. ENCOM, in daily business, targets in maximizing productivity and reducing costs on Client's benefit, by applying a value engineering approach throughout projects development.

Today ENCOM is able to undertake small but also medium to large size projects, delivering quality engineering work, and being efficient and competitive in a challenging market environment.

With 20 years of greenfield and brownfield experience, our clients can rely on our capabilities. We take great pride in being effective and reliable.



OUR IDENTITY

- ✓ **Experienced Team:** ENCOM Engineering boasts a skilled team of engineering consultants specializing in Oil & Gas sector projects, delivering expertise developed through years of experience.
- ✓ **Proven Track Record:** Successfully completing projects for major clients showcases our efficiency and reliability, ensuring client satisfaction.
- ✓ **Client Collaboration:** We foster strong client relationships through transparent communication and collaboration, tailoring our services to meet specific needs. This collaborative approach enhances project success and client satisfaction.
- ✓ **Quality Focus:** Our experienced engineers prioritize top-quality outcomes, adhering to industry standards and implementing robust quality assurance.
- ✓ **Safety First Approach:** Ensuring safety is our top priority, both in design and operations. Our team guarantees projects that are not only successful but also conducted and designed to operate with the highest standards of safety.
- ✓ **Agile decision making:** Lean organizational structure empower us to prioritize client needs swiftly, translating in competitive rates.
- ✓ **Team spirit:** Forged through years of collaborative synergy within our dedicated team. Our collective expertise and camaraderie translates into seamlessly executed projects, ensuring clients benefit from a unified and skilled task force working cohesively to deliver exceptional results.



PROVIDED SERVICES

With a lean and agile team, ENCOM Engineering provides end-to-end solutions across all disciplines in the Oil & Gas sector. Our experienced professionals ensure efficient and comprehensive services, demonstrating our ability to handle diverse aspects with expertise and flexibility.

All major disciplines of an Oil & Gas project are covered by the company.

- ✓ Project Management
- ✓ Piping Design and Plant Layout
- ✓ Piping Stress Analysis
- ✓ Civil & Structural Design
- ✓ Electrical Engineering
- ✓ Instrumentation and Automation
- ✓ Material Take-Off
- ✓ Mechanical Engineering
- ✓ Process
- ✓ Construction Supervision



Project Management

- ✓ Project Programming & Coordination
- ✓ Project Planning
- ✓ Cost Estimation
- ✓ Assistance with Tender Package creation

Other general services

- ✓ Production of Bill Of Quantities
- ✓ Site surveying
- ✓ As-built drawing preparation



Piping design & Plant Layout

- ✓ Complete Piping Engineering Design for New installations
- ✓ Revamping of existing units
- ✓ Development of Detailed Key Plans & Plot Plans
- ✓ 3D Model Design
- ✓ Isometric Drawings
- ✓ Detailed Piping Layouts
- ✓ Piping MTO



Codes & Standards

- ✓ ASME A series codes
- ✓ ASME B series codes
- ✓ Local Legislation for refinery design
- ✓ ASME B31.1 , B31.3, B31.8 etc. codes
- ✓ API codes for petroleum and petrochemicals piping
- ✓ DIN/EN ISO codes



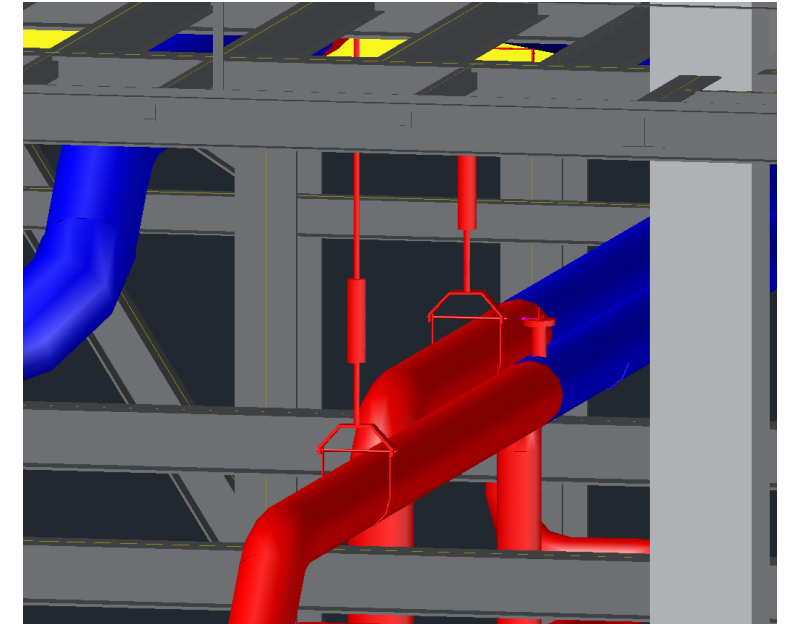
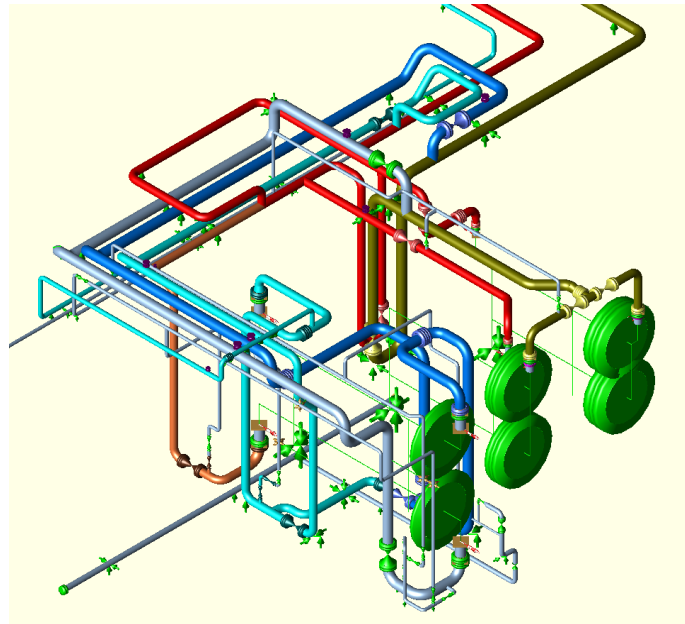
Tools

- ✓ Autodesk Plant 3D
- ✓ AutoCAD



Stress analysis and Support Design

- ✓ On/Off Shore Stress Analysis Calculations with CAESAR II
- ✓ Dynamic analysis (modal, spectrum, etc.)
- ✓ Special Support Drawings
- ✓ Material Take Off for Piping Supports Components
- ✓ Data sheets and Material Requisition for Itemized Piping Supports (i.e. Spring Hangers/Rigid Struts/Shock Absorbers)
- ✓ Data sheets and Material Requisition for Expansion Joints
- ✓ Nozzle Evaluations of Static and Rotating equipment (API/NEMA/WRC)
- ✓ Flange leakage test (pressure equivalent method etc.)
- ✓ 3d modelling of pipe supports



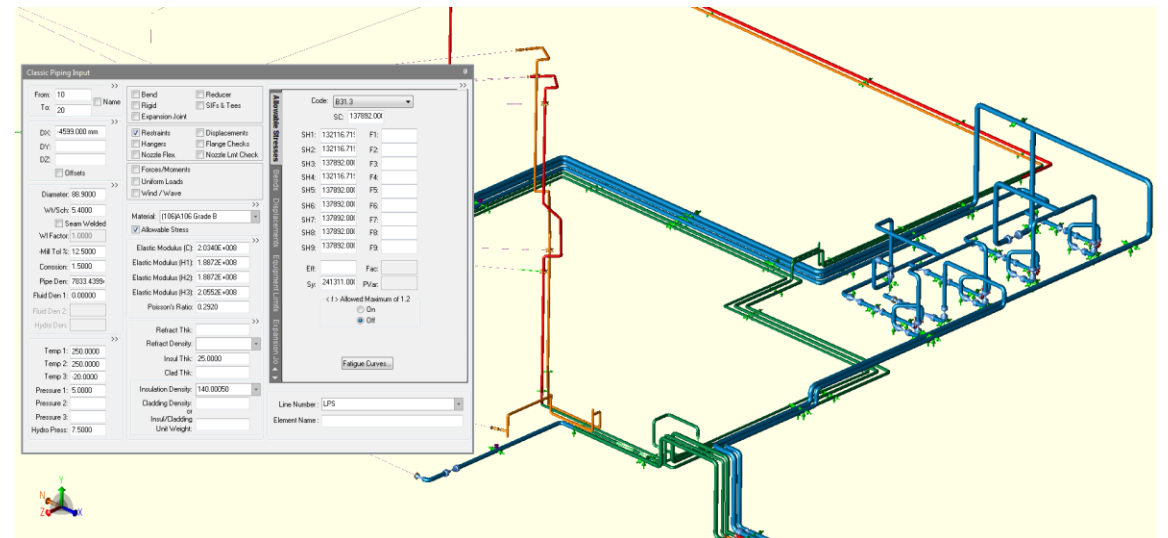
Codes & Standards

- ✓ Local Legislation for refinery design
- ✓ ASME B31.1, B31.3, B31.8 etc. codes
- ✓ API codes for petroleum and petrochemicals piping



Tools

- ✓ Autodesk Plant 3D
- ✓ AutoCAD
- ✓ CEASAR II



Civil & Structural Engineering

- ✓ Design of Concrete Structures (Precast & Cast in situ Concrete)
- ✓ Design of Concrete Foundation of Heavy Rotary Machinery
- ✓ Design of Steel Structures
- ✓ Design of Pipe Racks
- ✓ Design of Buildings
- ✓ Hydraulic Design of Underground Sewer Systems
- ✓ Architectural Engineering
- ✓ Preparation of 2D Drawings
- ✓ 3D Model Design
- ✓ Revamping of Existing Structures
- ✓ Adequacy Check of Existing Structures and Reinforcing Design if Required

Codes & Standards

- ✓ Eurocode (EC4, EC7, EC8)
- ✓ Greek Seismic Code (EAK 2003)
- ✓ EKOS 2000



Tools

- ✓ AutoCAD
- ✓ TEKLA STRUCTURES
- ✓ STAAD PRO
- ✓ STRUCAD
- ✓ IDEA STATICA
- ✓ SCIA ENGINEER
- ✓ CONSTEEL
- ✓ RUNET SOFTWARES
- ✓ FESPA
- ✓ DLUBAL RFEM
- ✓ ROBOT STRUCTURAL ANALYSIS

Electrical Engineering

- ✓ Complete Electrical Project Engineering, Estimating and Scheduling for new Installations and/or modifications of existing systems.
- ✓ Power layout of devices including receptacles, low voltage IT receptacles, plumbing equipment and associated circuit sizing.
- ✓ Power distribution design including One-line diagrams, calculations and panel schedules.
- ✓ Lighting design including interior and exterior light fixture specifications, line and low voltage lighting control design, and production of photometric plan sheets to support lighting design.
- ✓ Generator design and specification for required projects including fire pumps and/or required standby systems.
- ✓ Uninterruptible Power Supply design.
- ✓ Substations Planning and arrangement.
- ✓ Electrical Power Distribution Systems, Motor Control Centers compositions.

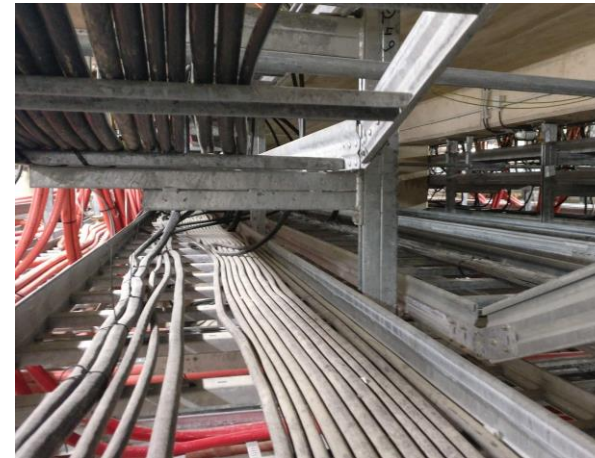
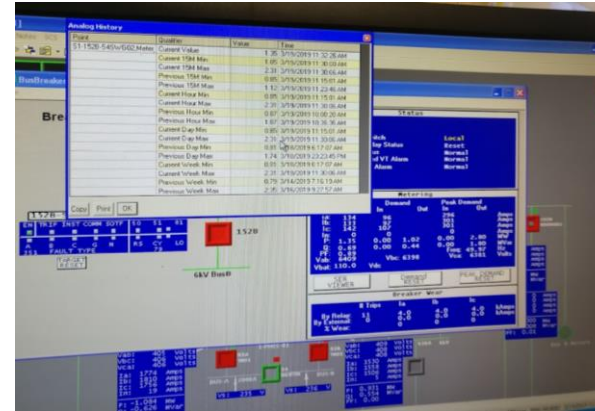
Codes & Standards

- ✓ IEC and EN Codes
- ✓ NEC/NFPA Codes (if required)
- ✓ ATEX Directives



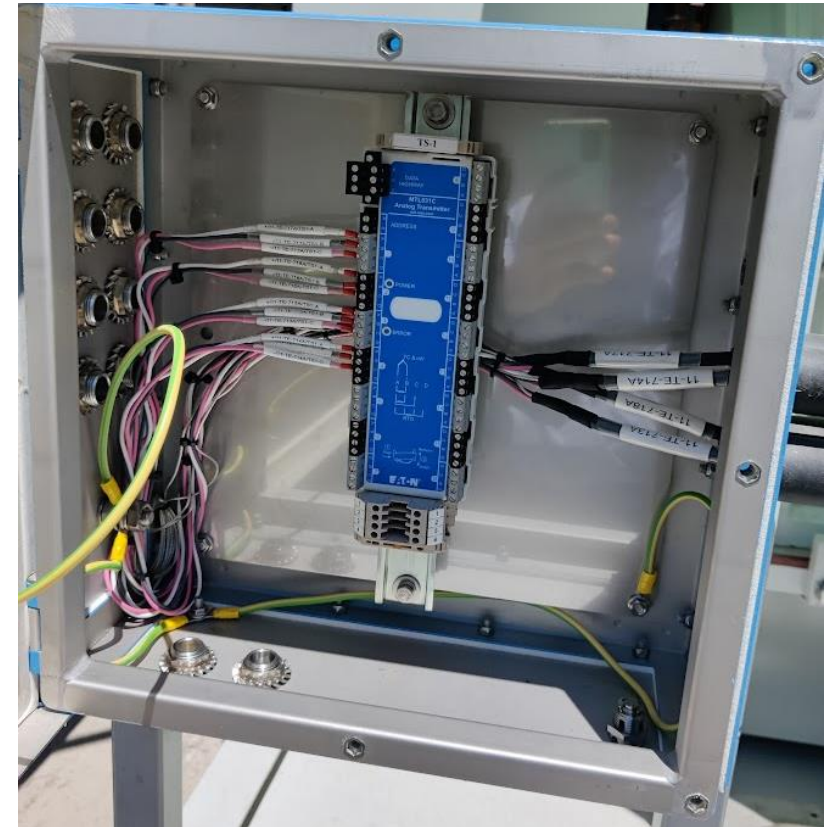
Tools

- ✓ AutoCAD
- ✓ DIALux evo
- ✓ Ecodial



Instrumentation & Automation Engineering

- ✓ Field Instrumentation
- ✓ Installation and wiring drawings
- ✓ Logic Diagrams
- ✓ Control and Safety Systems Design
- ✓ F&G systems design
- ✓ Intercom Telecom Systems Design
- ✓ Security Systems Design
- ✓ SIL Assessments & Calculations



Codes & Standards

- ✓ ASME B31.1 , B31.3, B31.8 etc. codes
- ✓ API codes for petroleum and petrochemicals piping
- ✓ DIN/EN ISO codes for plastic piping

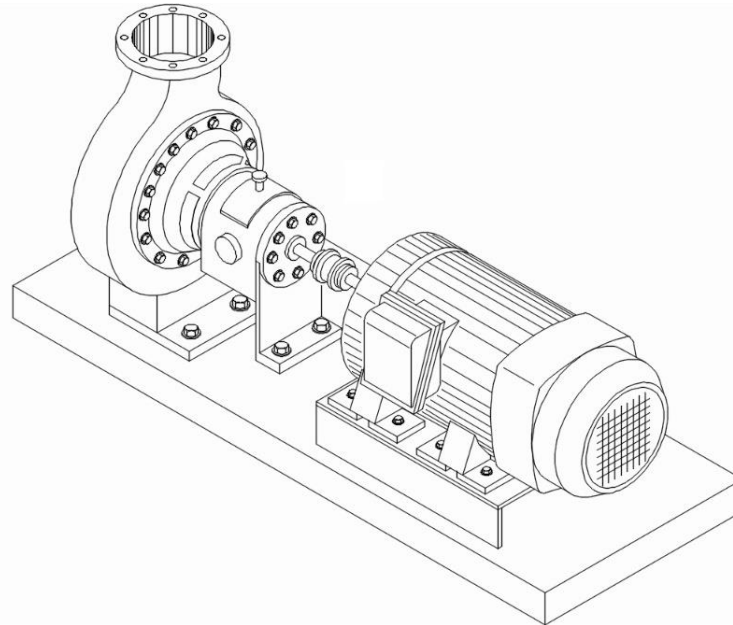


Tools

- ✓ Autodesk Plant 3d
- ✓ AutoCAD

Mechanical Engineering

- ✓ Equipment Studies for Columns, Compressors, Vessels, Pumps, Heat Exchangers etc.
- ✓ Material Requisition for Inquiry and for Order
- ✓ Technical Bid Tabulations
- ✓ Vendor Technical Documentation Follow-Up



Codes & Standards

- ✓ ASME B31.1 , B31.3, B31.8 etc. codes
- ✓ API codes for petroleum and petrochemicals piping
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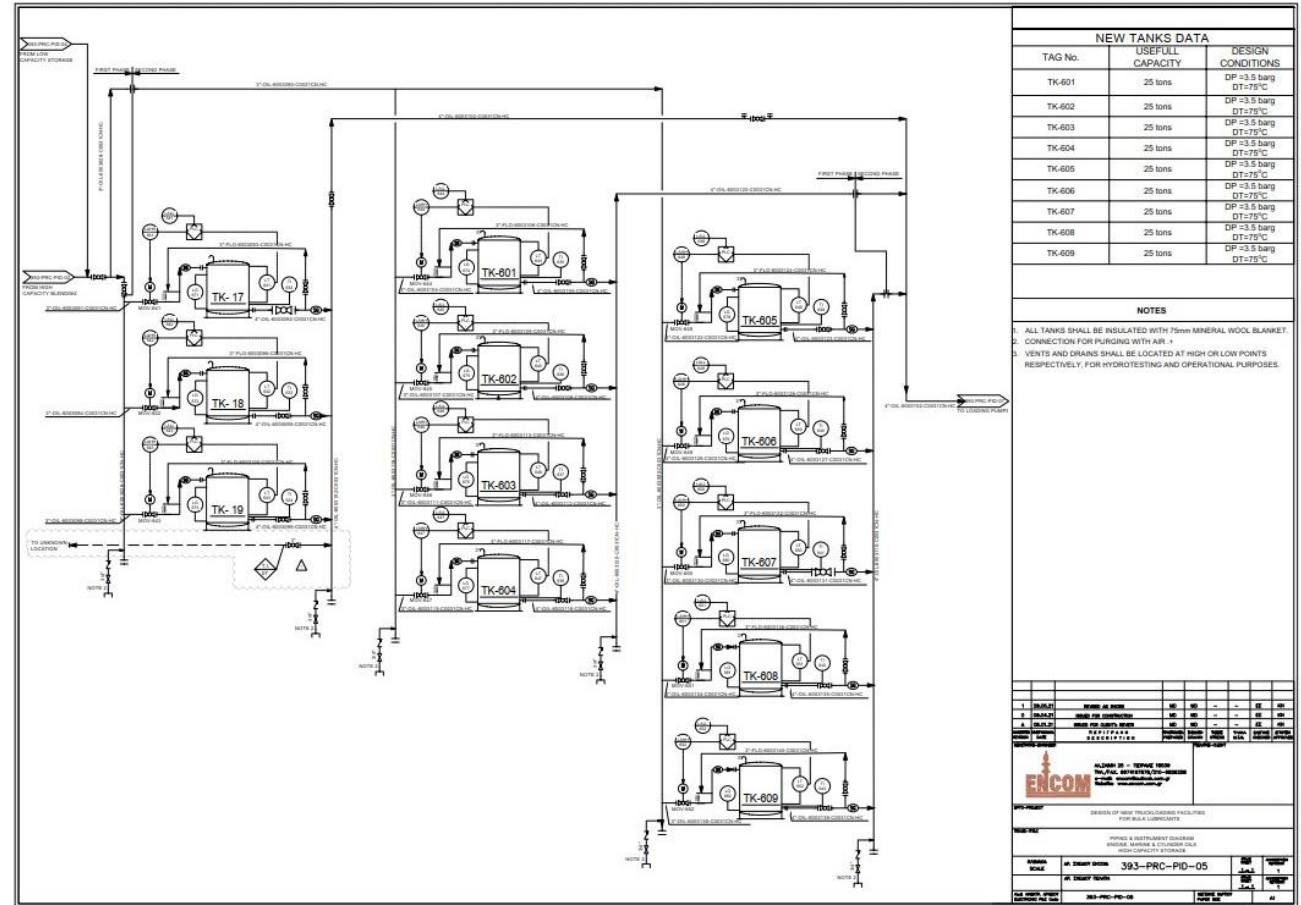


Process

- ✓ Process Flow Diagrams & Piping & Instrument Diagrams
- ✓ Equipment & Instrument Process Data Sheets
- ✓ Feasibility studies of Industrial Units
- ✓ Hydraulic Studies for pressurized networks (steady state & transient)
- ✓ Simulation of Industrial process units
- ✓ Heat Transfer Calculations for vessels and pipes
- ✓ Compilation of operating instructions/Manuals
- ✓ Detail Engineering & Design Review of Industrial Units
- ✓ Mechanical Line list
- ✓ Tie-In List

Codes & Standards

- ✓ API codes for petroleum and petrochemicals piping
- ✓ NFPA codes for firefighting practices



OUR PEOPLE

ENCOM team consists of top-level engineers, with great international reputation and recognition, successful background and experience in engineering and construction. Proud of our people we are in position to cover with our “in house” and external network of collaborators multiple disciplines

KEY PERSONNEL

Kostas Nikou

Founder of ENCOM
Civil Engineer
20 years of
experience in Oil &
Gas



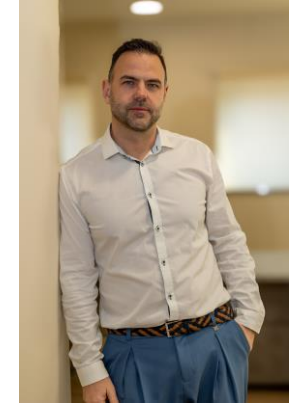
Efstratios Emmanouilidis

Mechanical Engineer
19 years of experience of
Piping Design in Oil & Gas



Athanasios Karamitros

Mechanical Engineer
22 years of experience
of Piping Design in Oil
& Gas
Piping Construction
supervisor



Dimitris Triantafillos

Mechanical Engineer
20 years of experience of Piping
Design in Oil & Gas
3d programs administrator



Alexandros Romanos-Louizos

Mechanical Engineer
13 years of experience of Piping
Stress Analysis in Oil & Gas

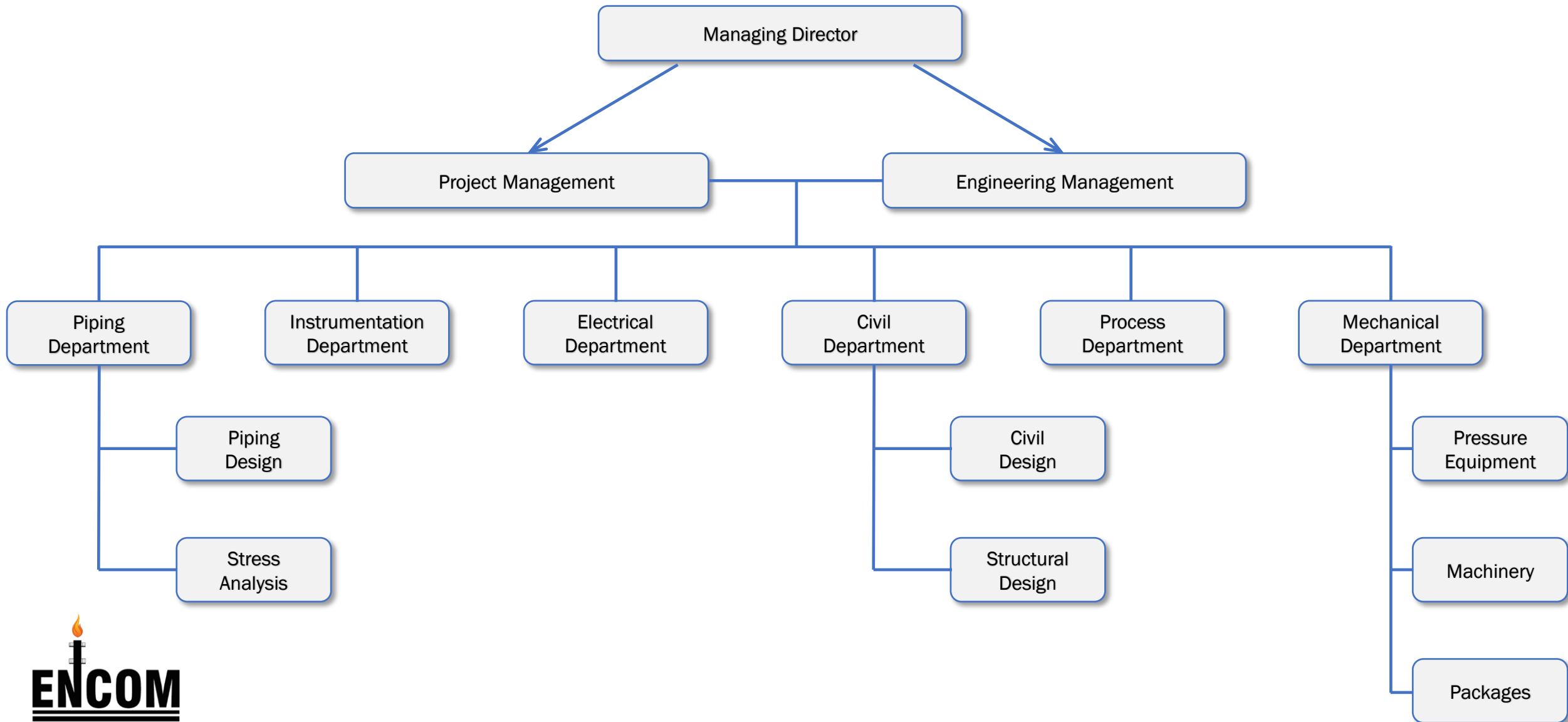


Athanasios Zervakos

Electrical Engineer
14 years of experience of
Electical Design in Oil & Gas
Field Electrical Engineer



ORGANIZATION CHART



PROJECTS



From the company's establishment in 2005 up to present day, ENCOM Engineering has successfully performed hundreds of projects where some of them are presented here below.

Our clients are across the whole spectrum of Oil & Gas sector and other industrial installations:

- ✓Refineries
- ✓Chemical Industries
- ✓Tank Farms
- ✓Power Plants
- ✓Industrial Applications



CLIENTS



PROJECTS

Project 393

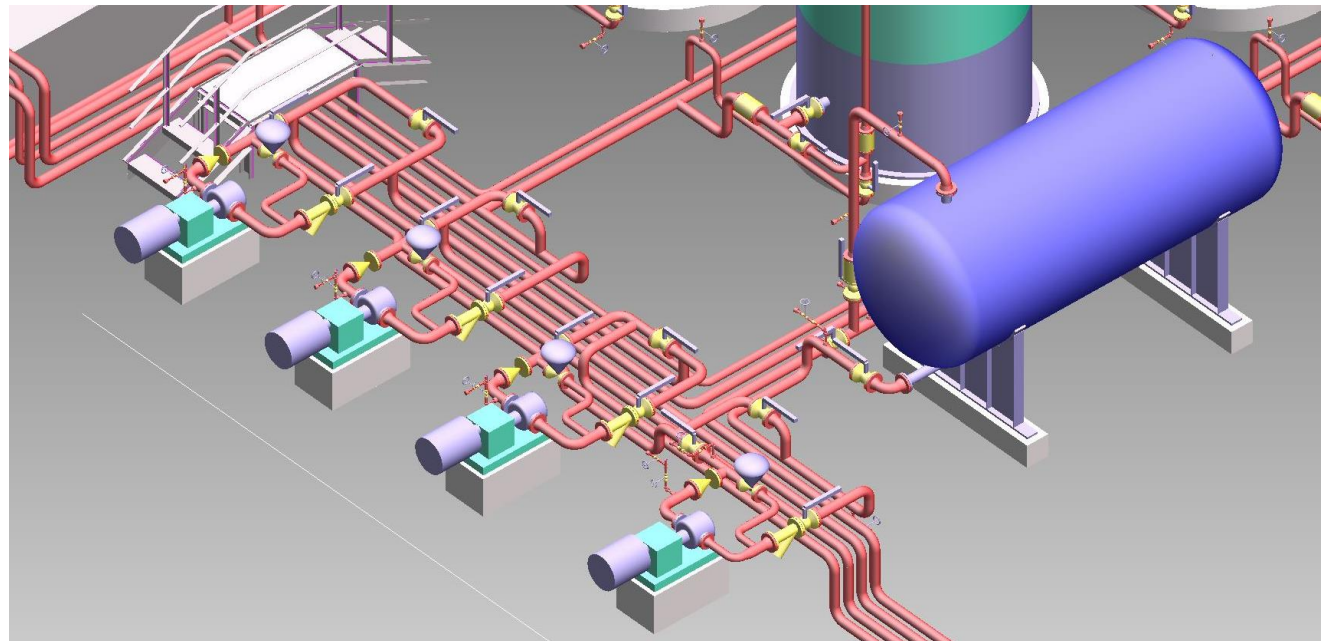
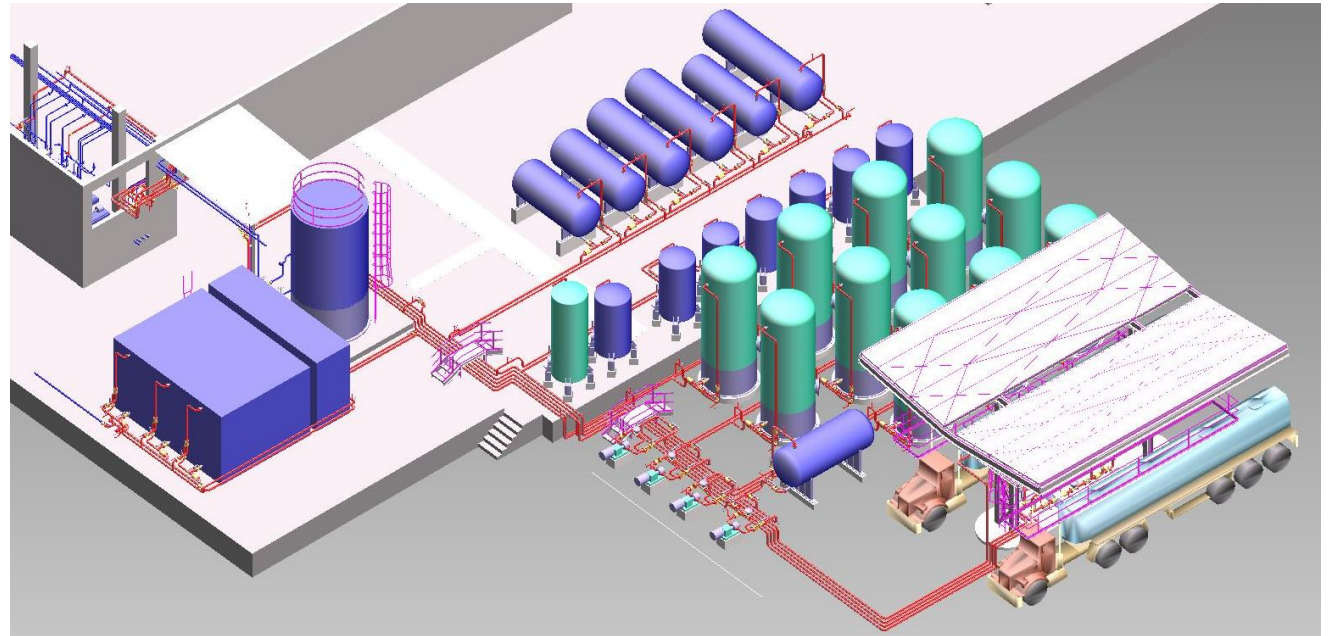
LPC Greece

Date of Completion: May 2021

Description of project: Detail Engineering Design for the Installation of New Truck Loading Station

Involved disciplines

- ✓ Piping
- ✓ Stress
- ✓ Civil
- ✓ Electrical
- ✓ Mechanical
- ✓ Instrument
- ✓ Process



PROJECTS

Project 337

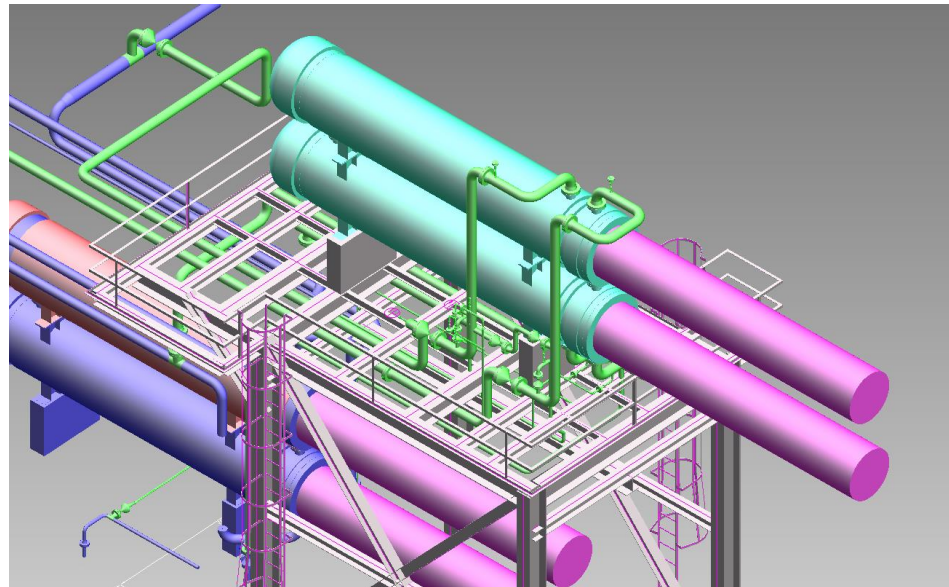
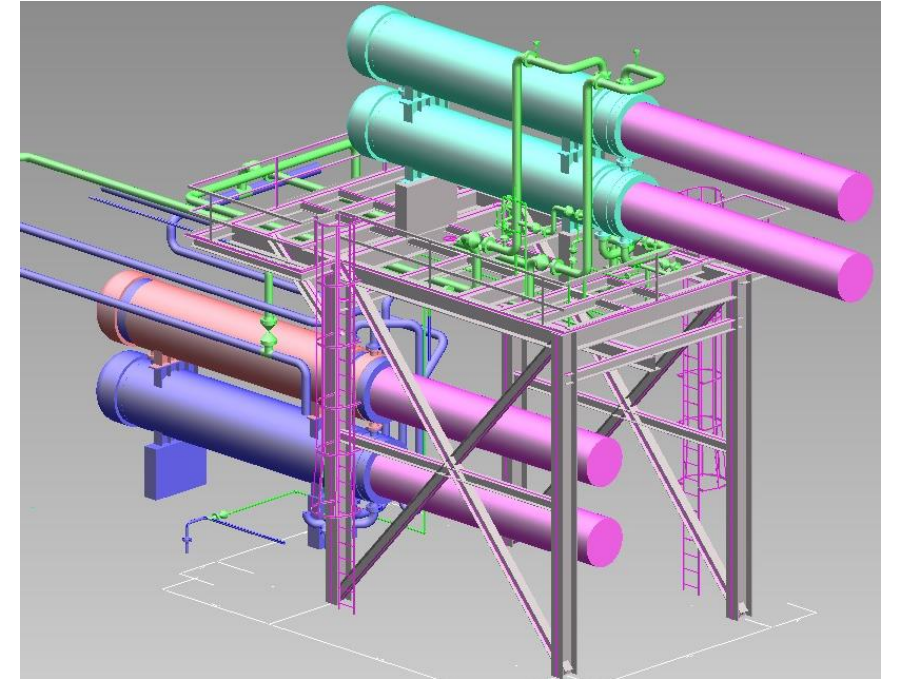
Motor Oil Hellas, Greece

Date of Completion: February 2016

Description of project: Detail Engineering Design for the Installation of new E-125A/B

Involved disciplines

- ✓ Piping
- ✓ Stress
- ✓ Civil



PROJECTS

Project 374

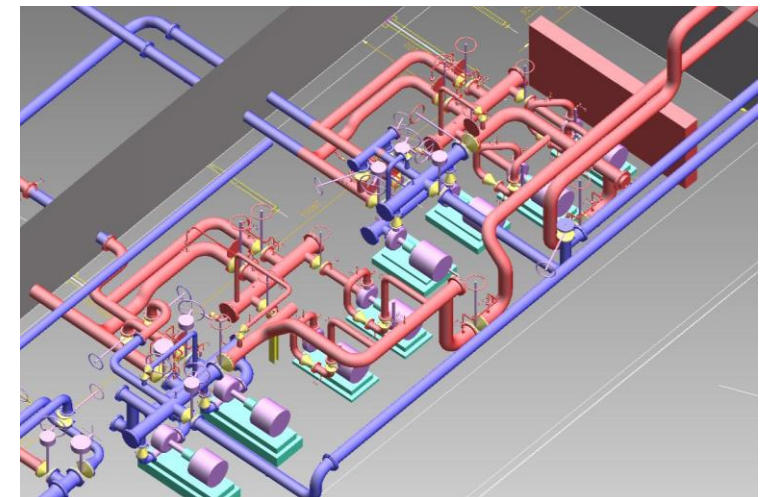
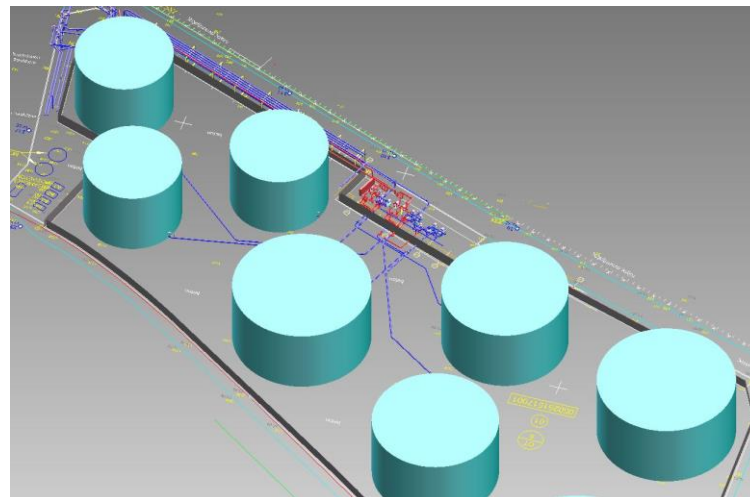
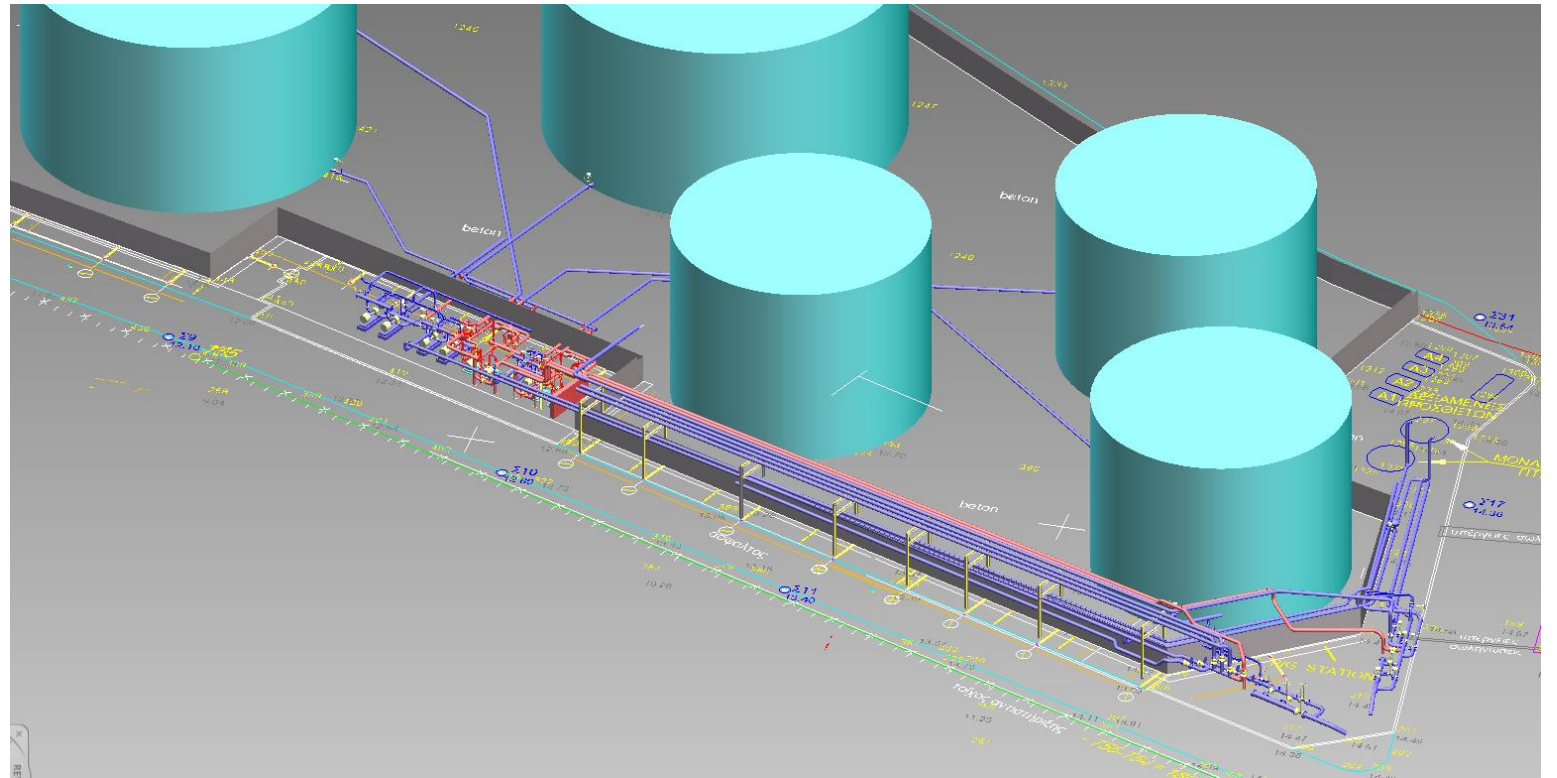
EKO Aspropyrgos, Greece

Date of Completion: August 2020

Description of project: Detail Engineering Design for the Installation of New Uni95 Pump Station

Involved disciplines

- ✓ Piping
- ✓ Civil
- ✓ Stress
- ✓ Electrical
- ✓ Instrumentation
- ✓ Process
- ✓ Mechanical



PROJECTS

Project 390

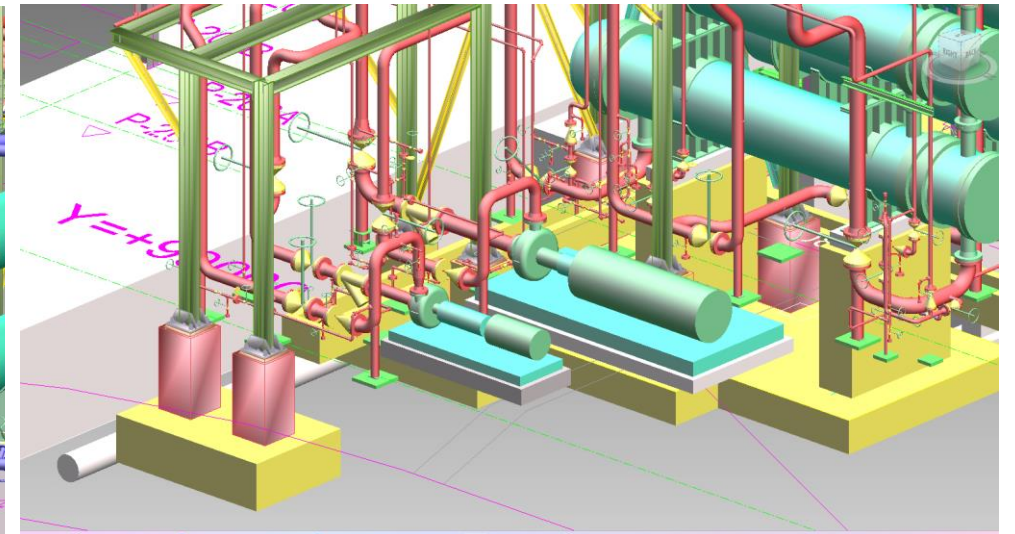
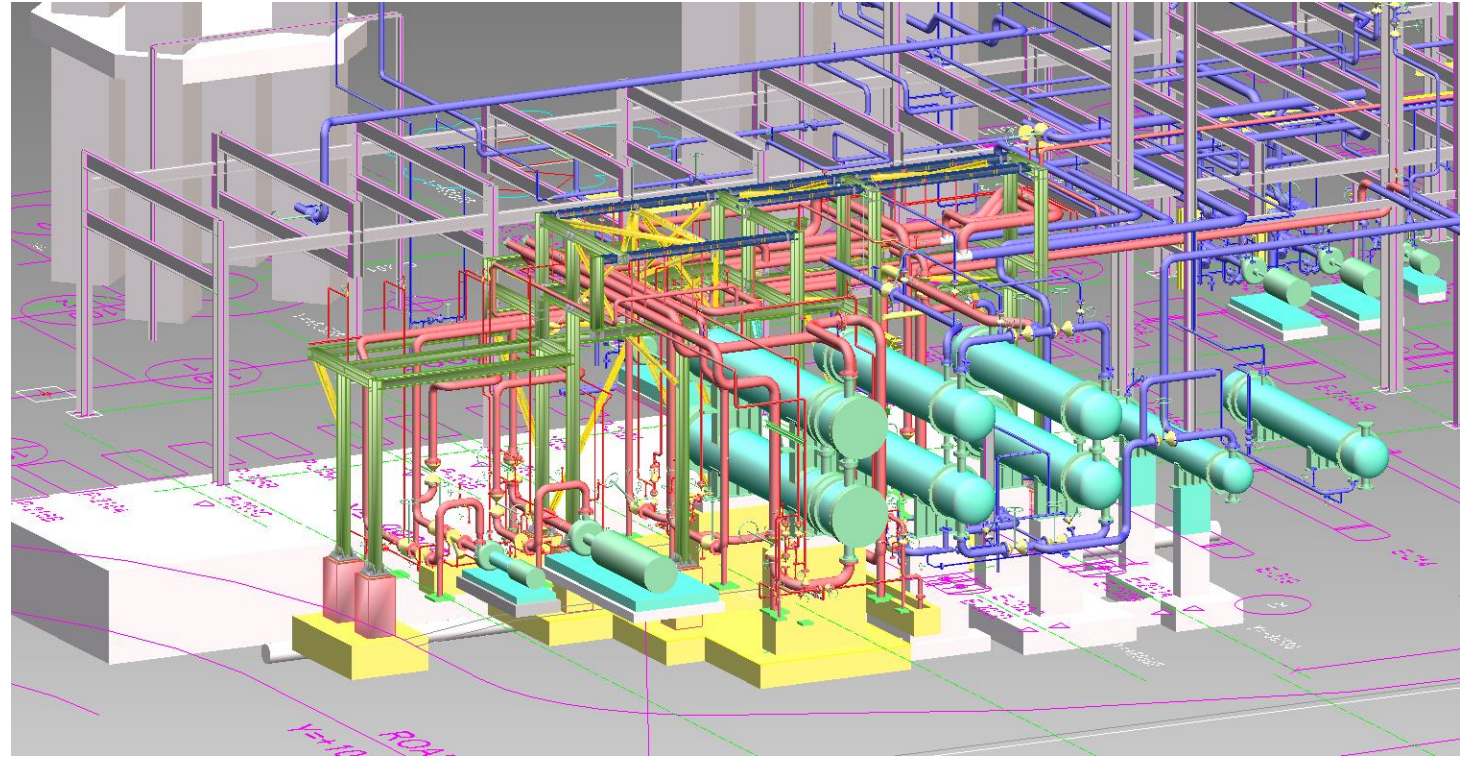
Motor Oil Hellas, Greece

Date of Completion: February 2023

Description of project: Basic & Detail Engineering Design for the Installation of New E-227A/B

Involved disciplines

- ✓ Piping
- ✓ Civil
- ✓ Stress
- ✓ Electrical
- ✓ Instrumentation
- ✓ Process
- ✓ Mechanical



PROJECTS

Project 404

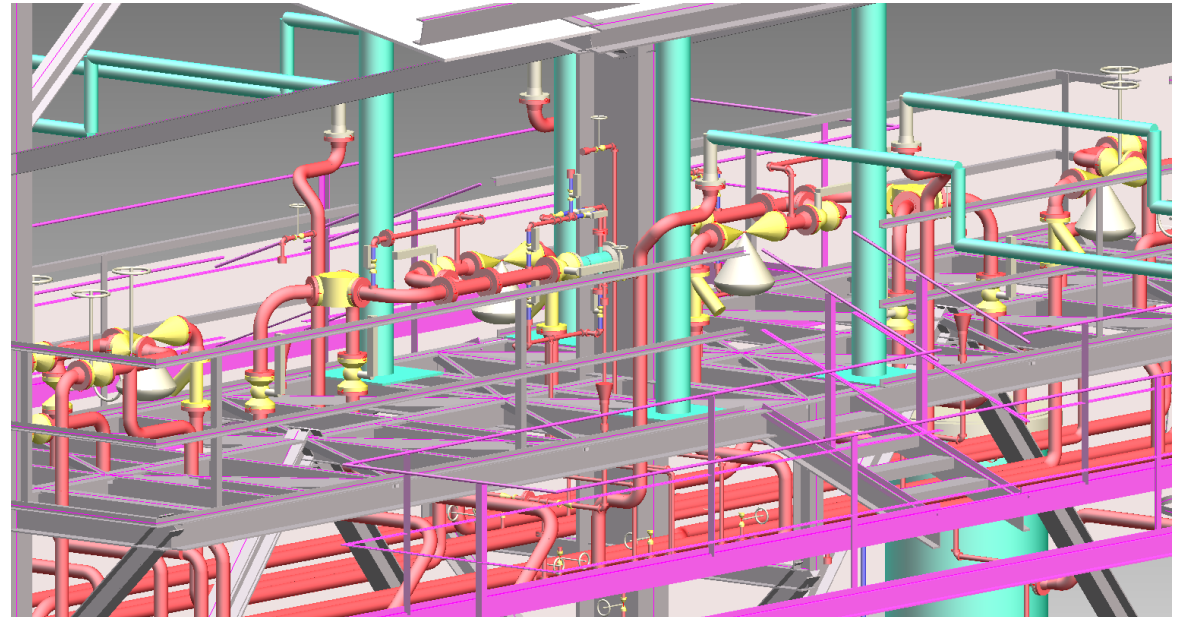
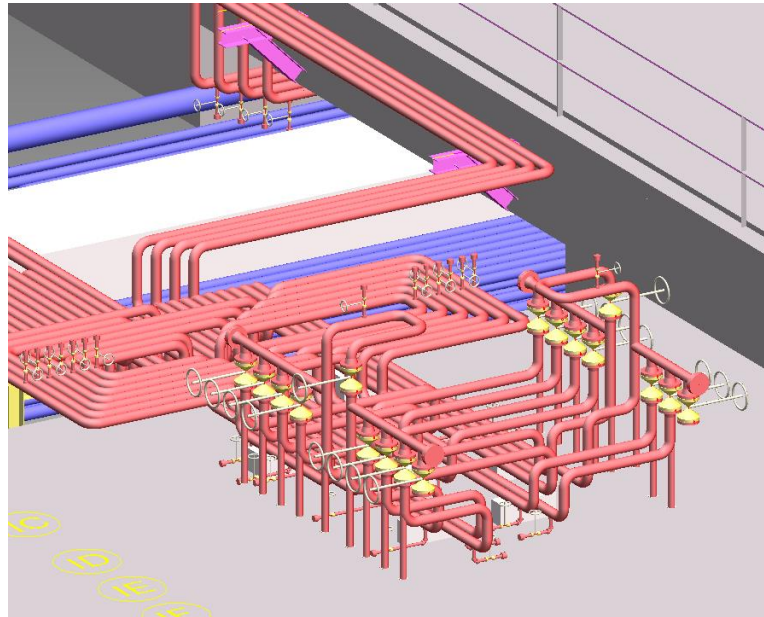
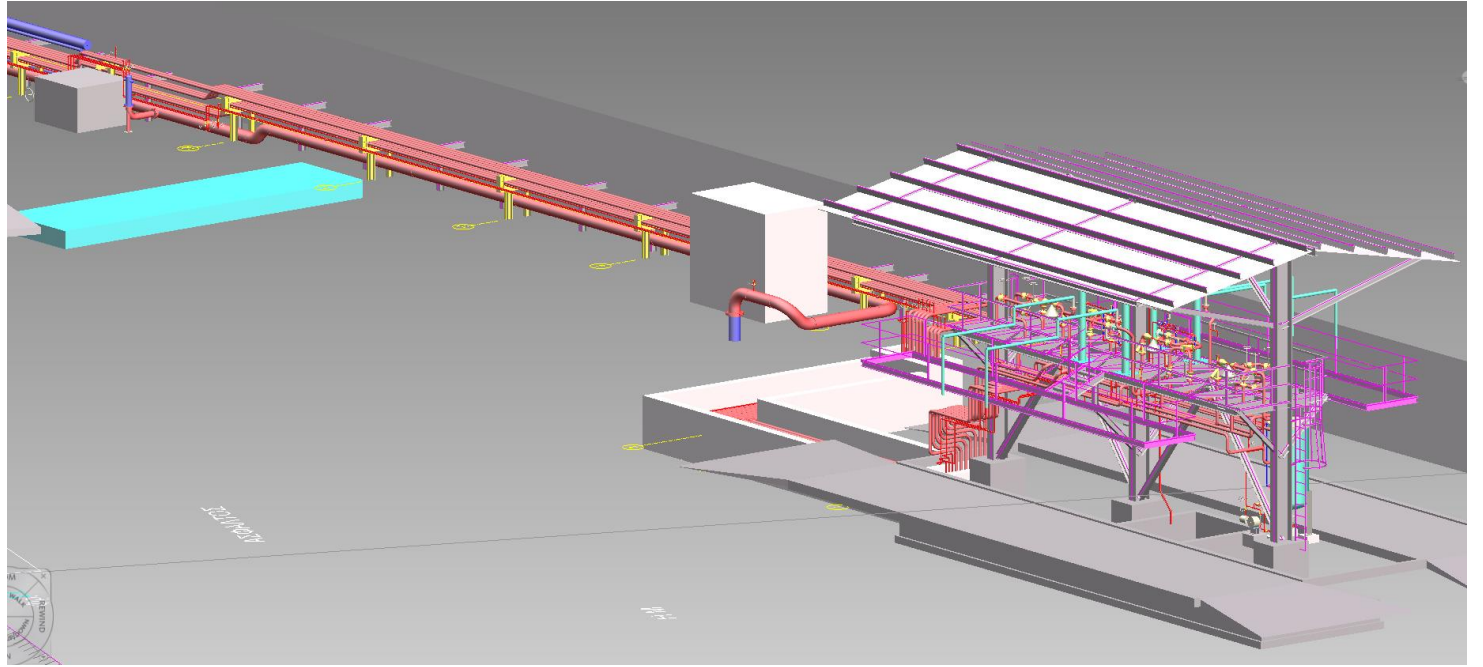
Motor Oil Hellas, Greece

Date of Completion: February 2022

Description of project: Detail Engineering Design for the Installation of new Truck Loading at U-600

Involved disciplines

- ✓ Piping
- ✓ Civil
- ✓ Stress
- ✓ Electrical
- ✓ Instrumentation
- ✓ Process
- ✓ Mechanical



PROJECTS

Project 432

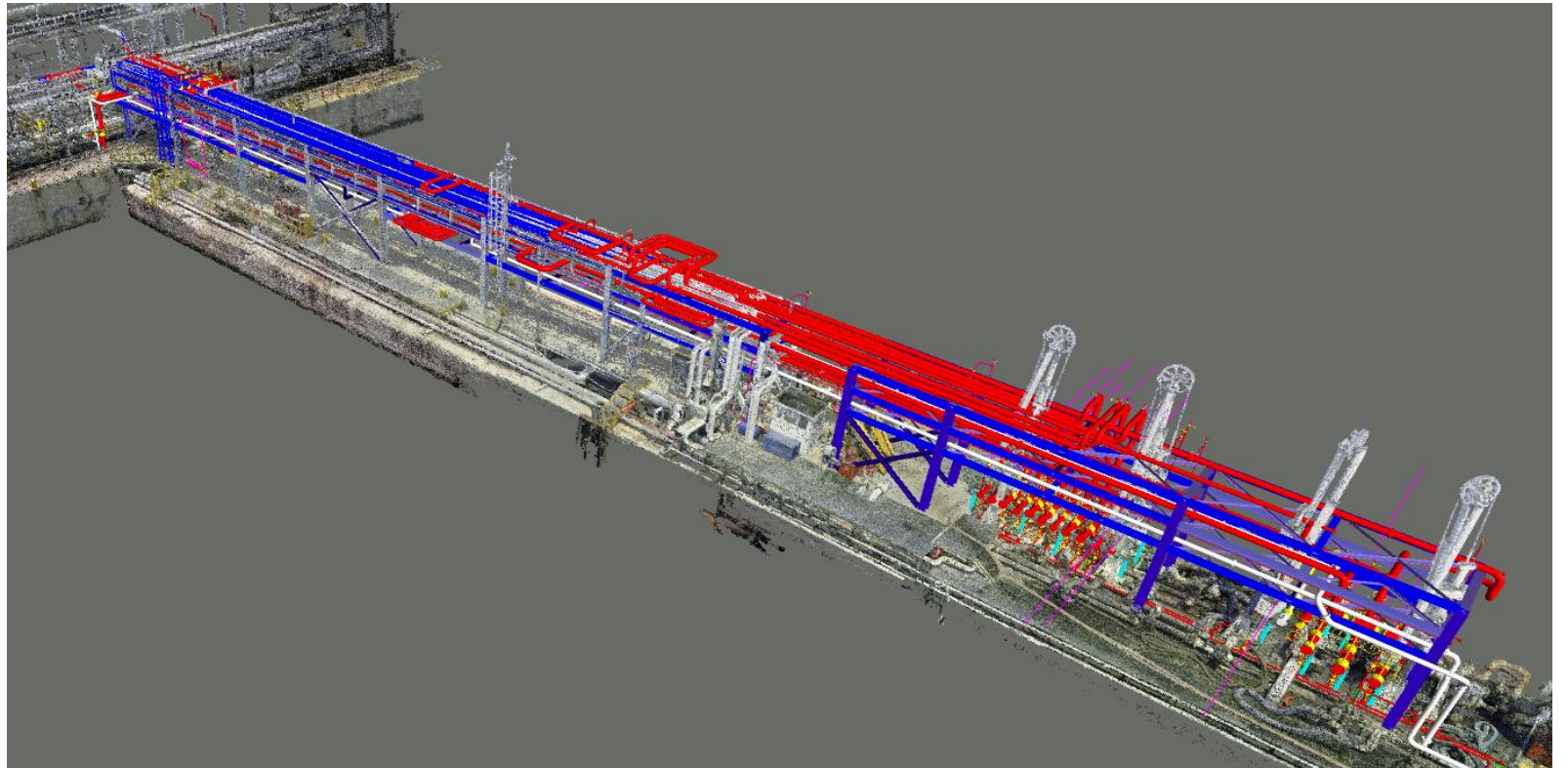
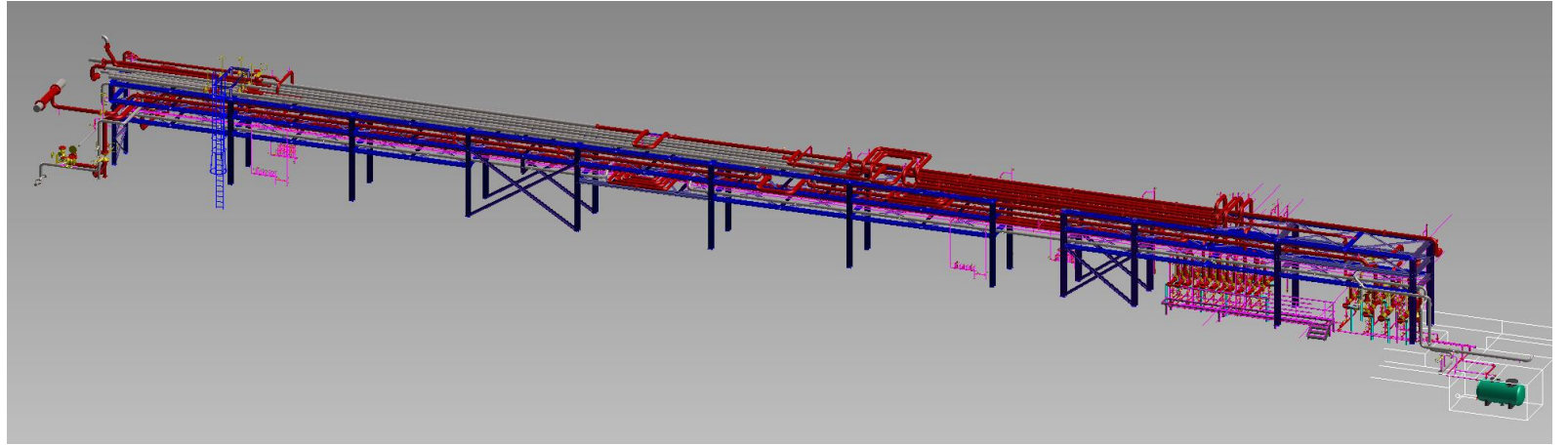
Motor Oil Hellas, Greece

Date of Completion: November 2023

Description of project: Detail Engineering Design for the Revamping of Jetty "C"

Involved disciplines

- ✓ Piping
- ✓ Civil
- ✓ Stress
- ✓ Electrical
- ✓ Instrumentation
- ✓ Process



OUR OFFICES

ENCOM premises are located in Metamorphosis, Athens, a privileged area in terms of interconnection with the National Road network, in a recently renovated building with options for further expansion.



CONTACT

Imittou & Eleutheriou Venizelou 20



Metamorfosi

14452

Greece



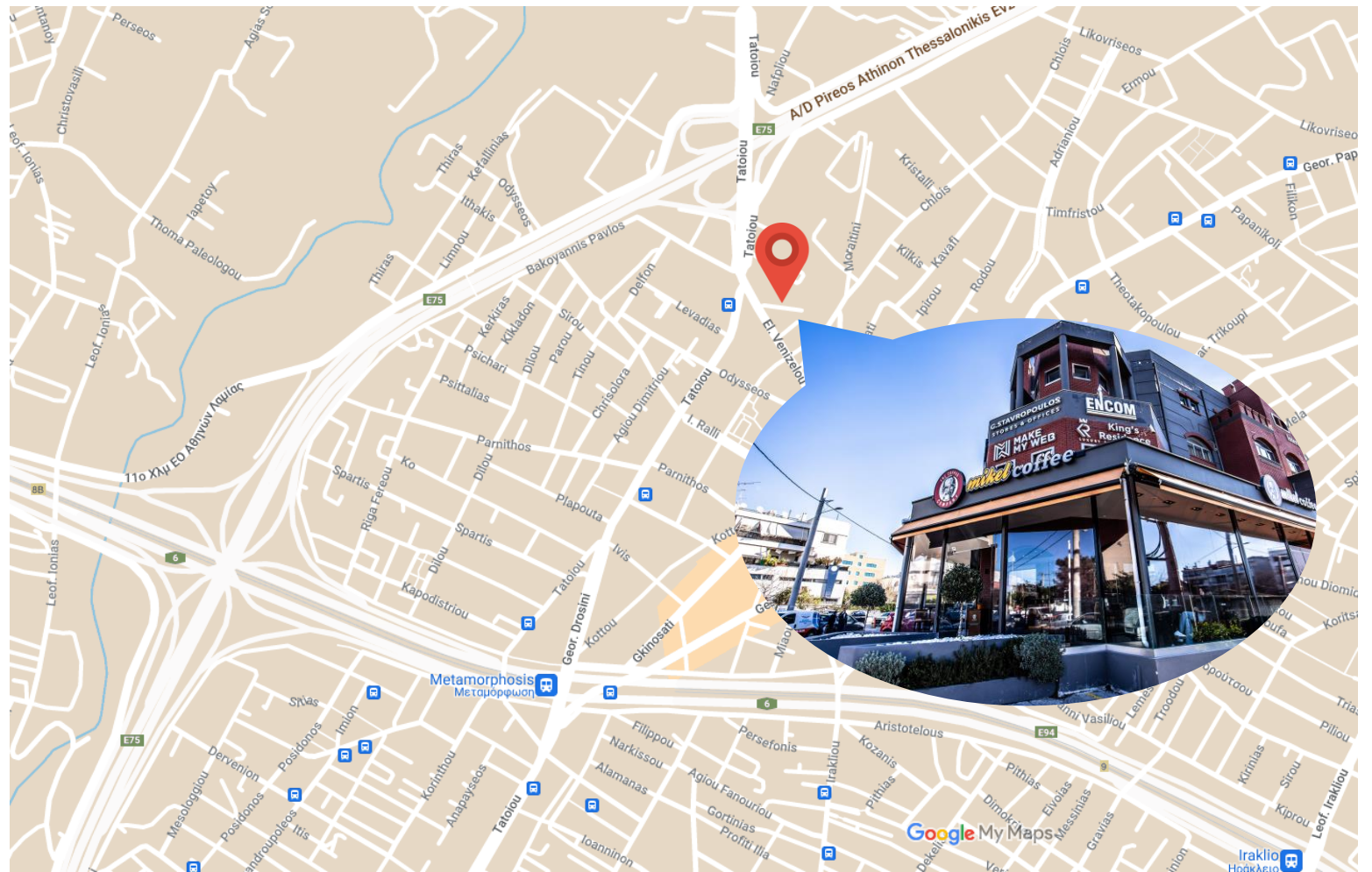
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