



# ABOUT US

## LOCATION



**Michalovce**

Košice region, Slovakia



## INDUSTRIES SERVED



Chemical Industry

Pharmaceutical industry

Food industry

Metallurgy

Buildings

Crude Oil Processing

Industrial Infrastructure

Water & Energy Industry

## DISCIPLINES



Mechanical



Process



Electrical

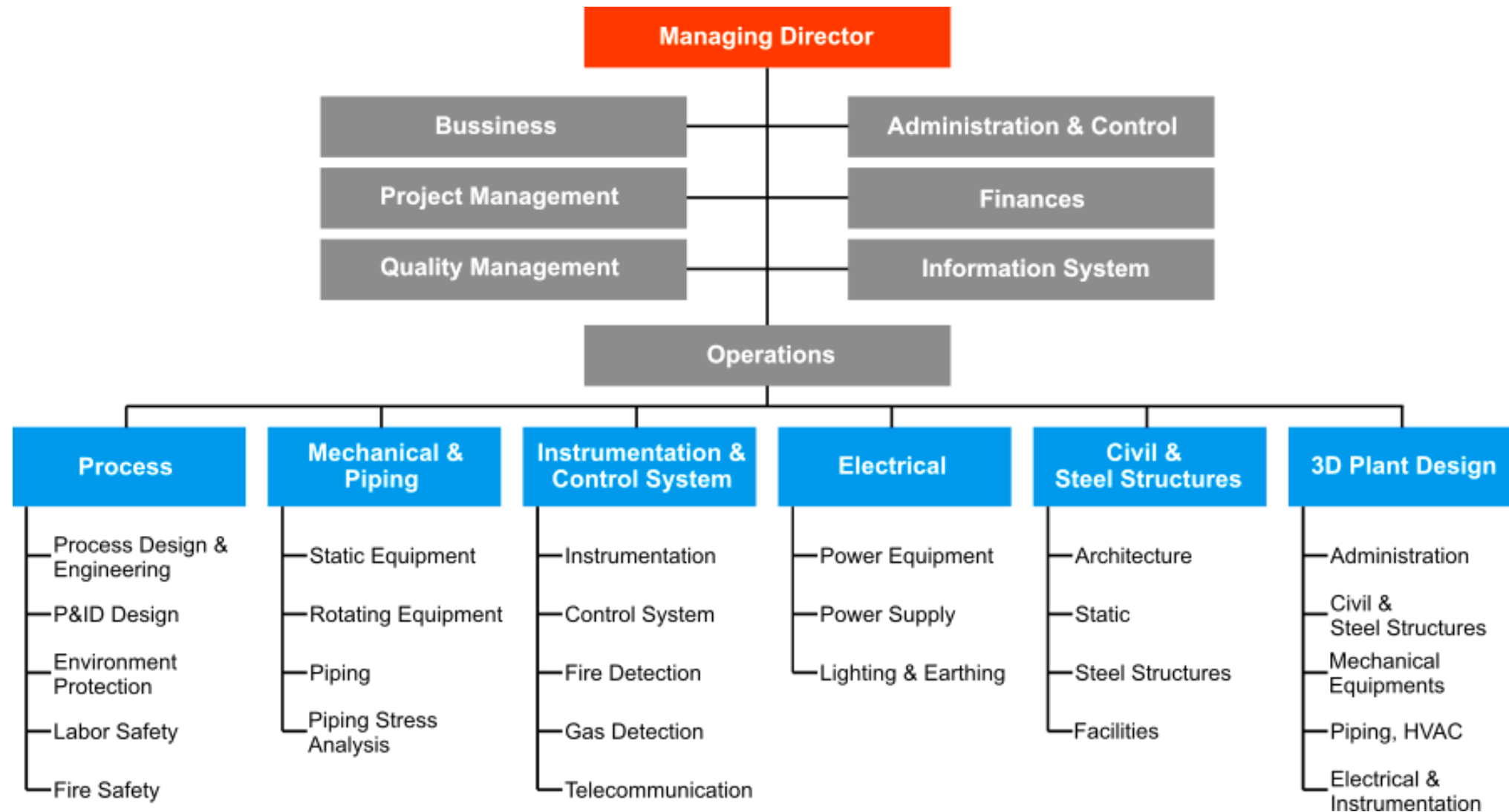


Instrumentation



Civil

# ORGANIZATIONAL STRUCTURE



# QUALITY MANAGEMENT

- ✓ *Project design & engineering documentation*
- ✓ *Project arrangement activities & procurement*
- ✓ *Project execution*





# SOFTWARE



## DISCIPLINE



## ACTIVITY



## SOFTWARE

PROJECT MANAGEMENT	project management	<i>Microsoft Project</i>
PROCES	Process calculations & simulations, P&ID	<i>ASPEN Plus, SINETZ, Aveva P&amp;ID</i>
MECHANICAL	3D design, 2D design	<i>E3D, PDMS, Autodesk Inventor, AutoCAD</i>
PIPING	3D design, 2D design, stress calculations	<i>E3D, PDMS, CADWorx, AutoCAD, Caesar II</i>
STEEL & CONCRETE STRUCTURE	3D/2D design, static calculations	<i>E3D, PDMS, Advance Steel, SCIA.ESA PT</i>
INDUSTRIAL BUILDINGS	3D design, 2D design, concrete reinforcement	<i>Autodesk REVIT, AutoCAD Architecture, CADKON DT+, CADKON RCD</i>
INSTRUMENTATION	schemes & databases, cable routes, layouts	<i>ELCAD, PDMS, AutoCAD</i>
ELECTRICAL	schemes & databases, cable routes, layouts	<i>ELCAD, PDMS, AutoCAD</i>
ALL	design review	<i>Navisworks, Autodesk Design Review</i>

Notes: \* on outsource basis

**BIM** BUILDING INFORMATION MODELING

 **AUTODESK® ADVANCE STEEL**

 **AUTODESK REVIT**

 **HEXAGON**

**AVEVA™**

 **AUTODESK INVENTOR**

 **3D Laser Scanning**

**CAESAR II®**  
Pipe Stress Analysis

**SCIA ENGINEER**

**ELCAD**

Static calculations  
Steel structures

Civil construction

Equipment  
Piping  
Cable trace  
HVAC

Calculations

P&ID

Simulations

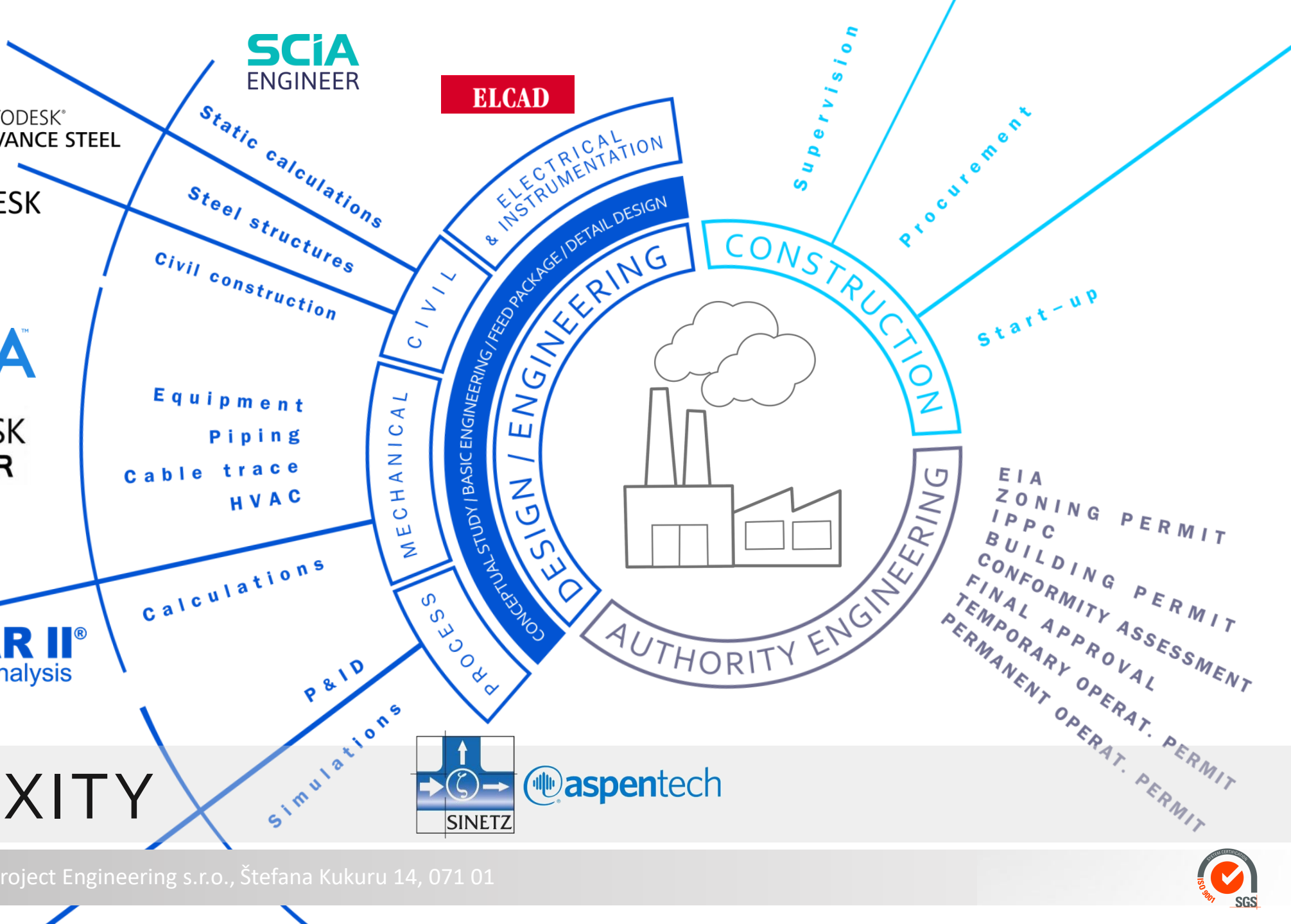


 **aspentech**

**COMPLEXITY**



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# REFERENCES

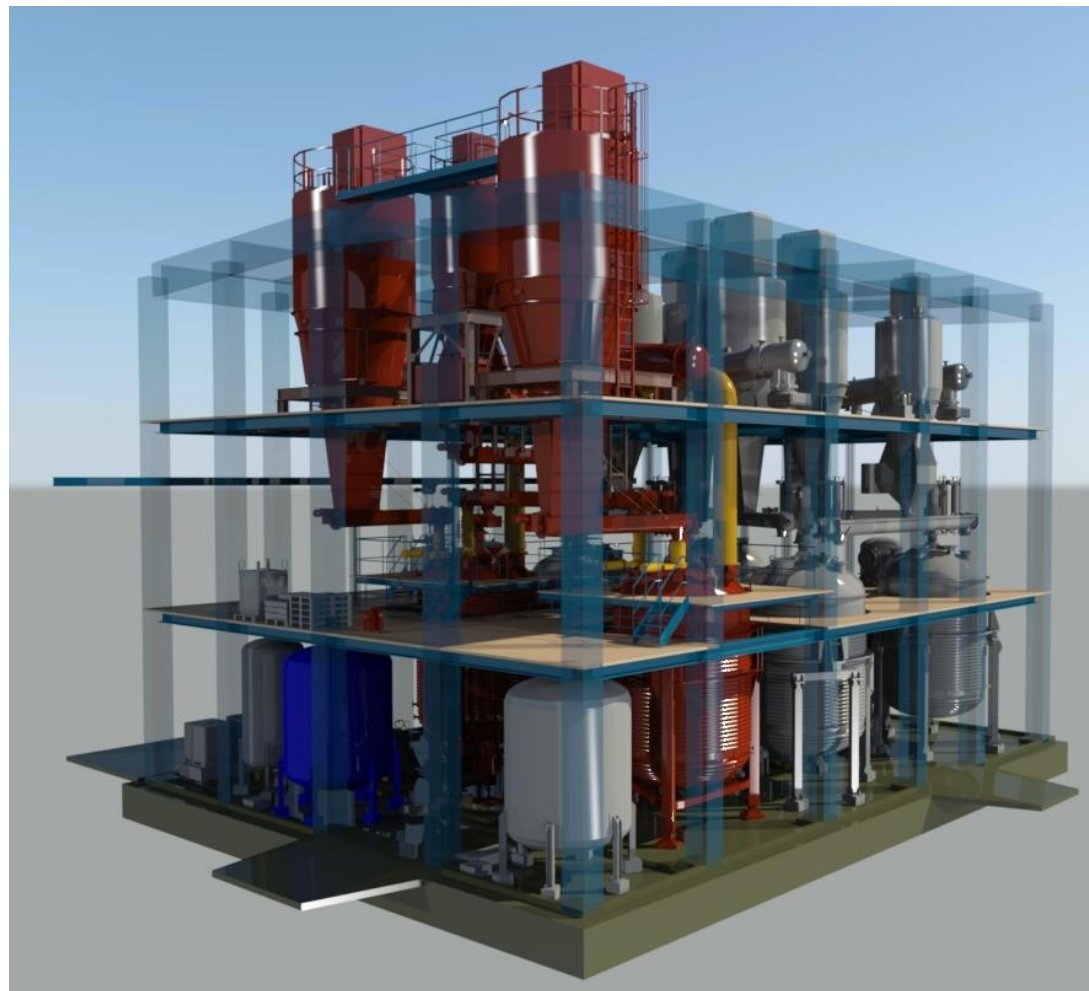
# EXTENSION OF GLUE PRODUCTION PLANT

Industry  
Client

**CHEMICAL INDUSTRY**  
**KRONOSPAN GmbH, GERMANY**

Services

Technological schemes - P&ID  
Documentation for Building Permit



*Key activity: EXTENSION*



# ENGINEERING SERVICES

Industry  
Client

**CHEMICAL INDUSTRY**  
**SIAD Slovakia, s.r.o.**

Services

CO2- Audit of existing documentation  
Engineering for trial operation of the plant  
Development of an emergency plan  
Final commissioning for permanent use of water structures  
Final commissioning for roads and paved areas  
Permit of permanent use of the middle source of pollution  
Final Commissioning



*Key activity: FINAL COMMISSIONING*

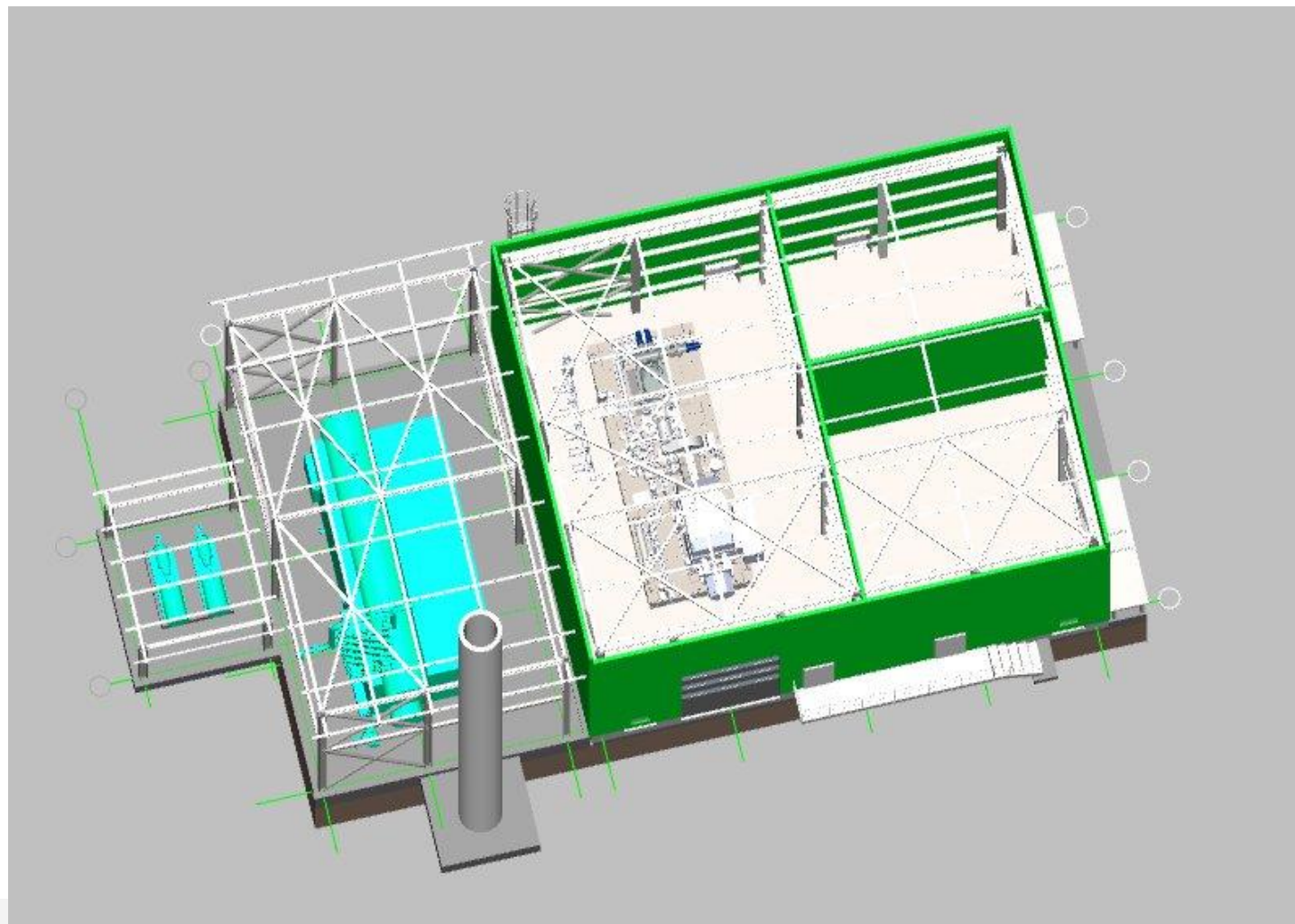
# EXTENSION OF POWER STATION - VUKVET

Field  
Location

**ENERGY INDUSTRY**  
**SLOVAKIA, ENVIRAL,a.s.**

Services

Laser Scan  
Conceptual study  
Building Permit Documentation  
Detail Design of connection points



*Key activity: EXTENSION*



# CHROME-FREE PASSIVATION EC<sub>1</sub> – RUNNING PROJECT

Field  
Location

**METALURGY & METALWORKING  
SLOVAKIA, U.S.STEEL KOŠICE**

Services

Laser Scan  
P&ID  
Basic Design / Engineering  
Building Permit Documentation  
Documentation for Dismantling  
Detail Engineering  
Workshop Documentation  
Supervision



*Key activity: NEW TECHNOLOGY*

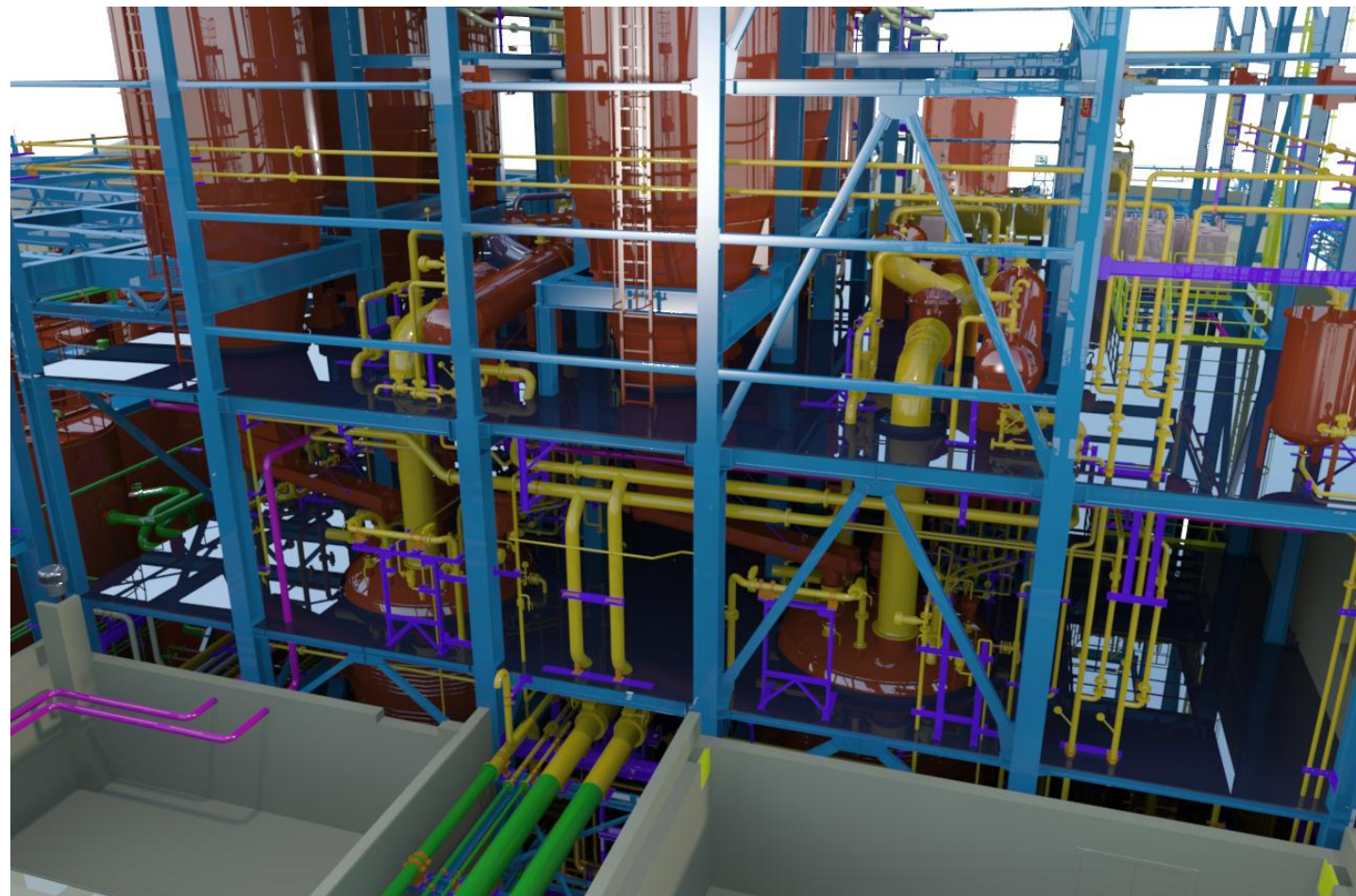
# PRODUCTION OF BINDING MATERIALS

Industry  
Client

**CHEMICAL INDUSTRY**  
**KRONOSPAN GROUP**

Services

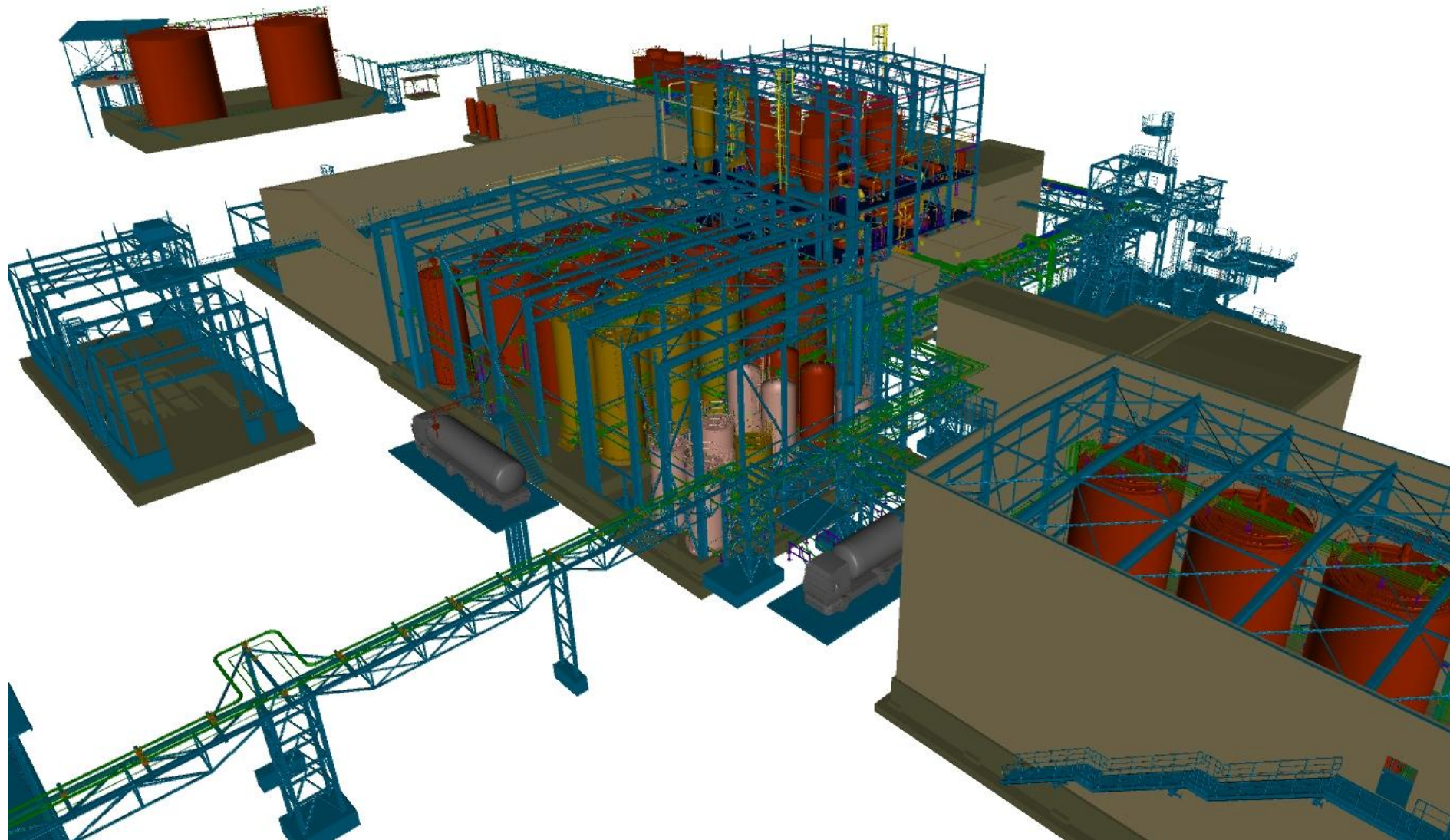
Greenfield project  
Detail design project (CIVIL, MECHANICAL)



*Key activity: GREENFIELD*



# PRODUCTION OF BINDING MATERIALS



# ALCOHOL DESTILLATION

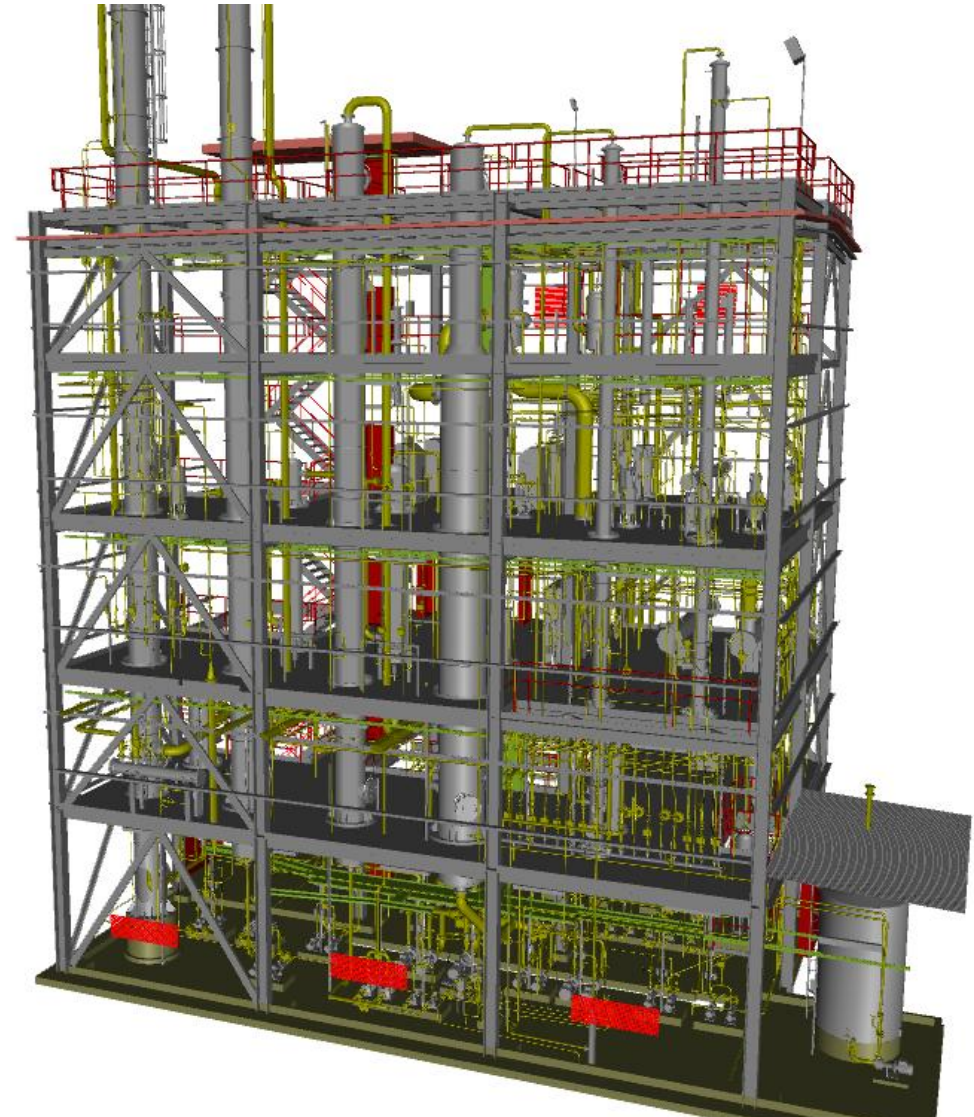
Industry  
Location

**FOOD INDUSTRY**  
**SLOVAKIA, SLL a.s.**

Services

Laser scan  
P&ID  
Detail design project  
As-Built

*Key activity: Extension of production*

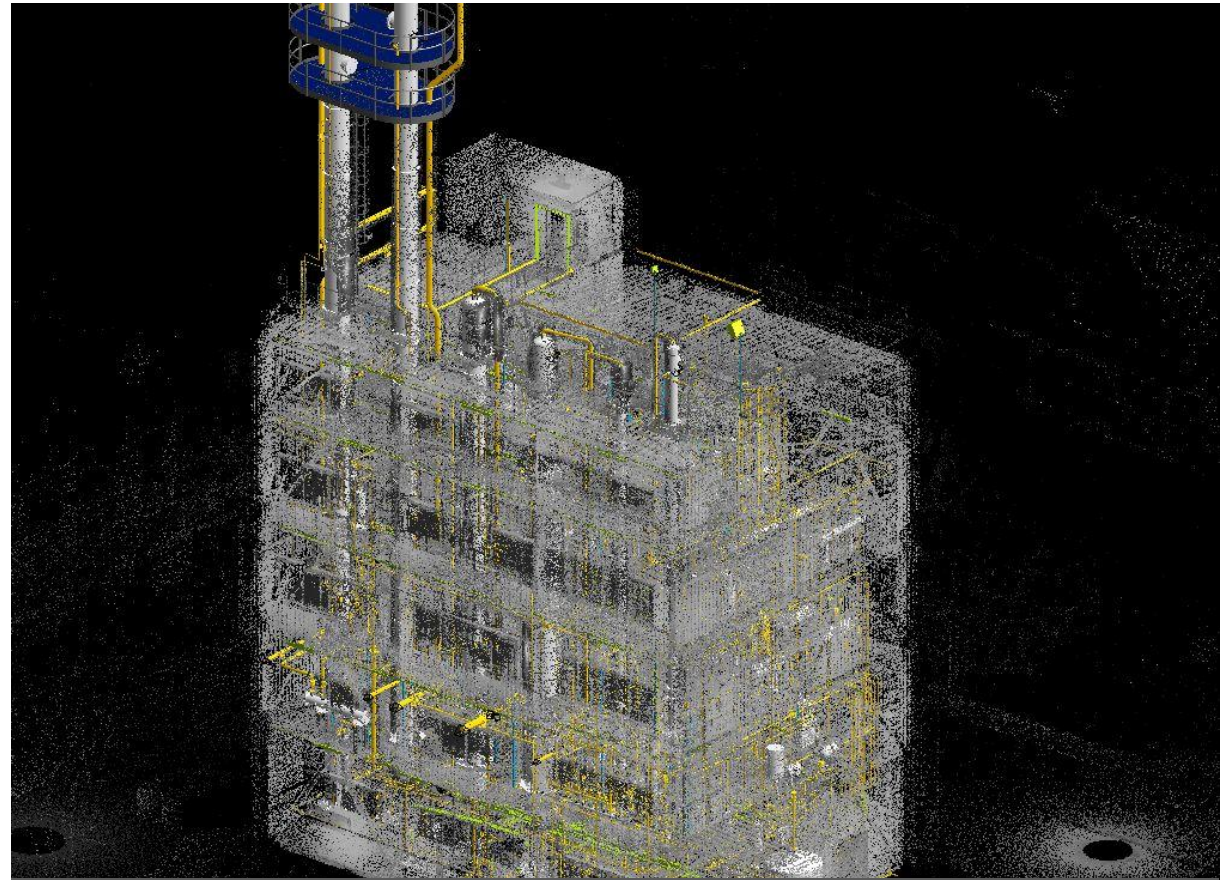




# ALCOHOL DESTILLATION



LASER SCAN - PHOTO



LASER SCAN-MODELING IN POINT CLOUD

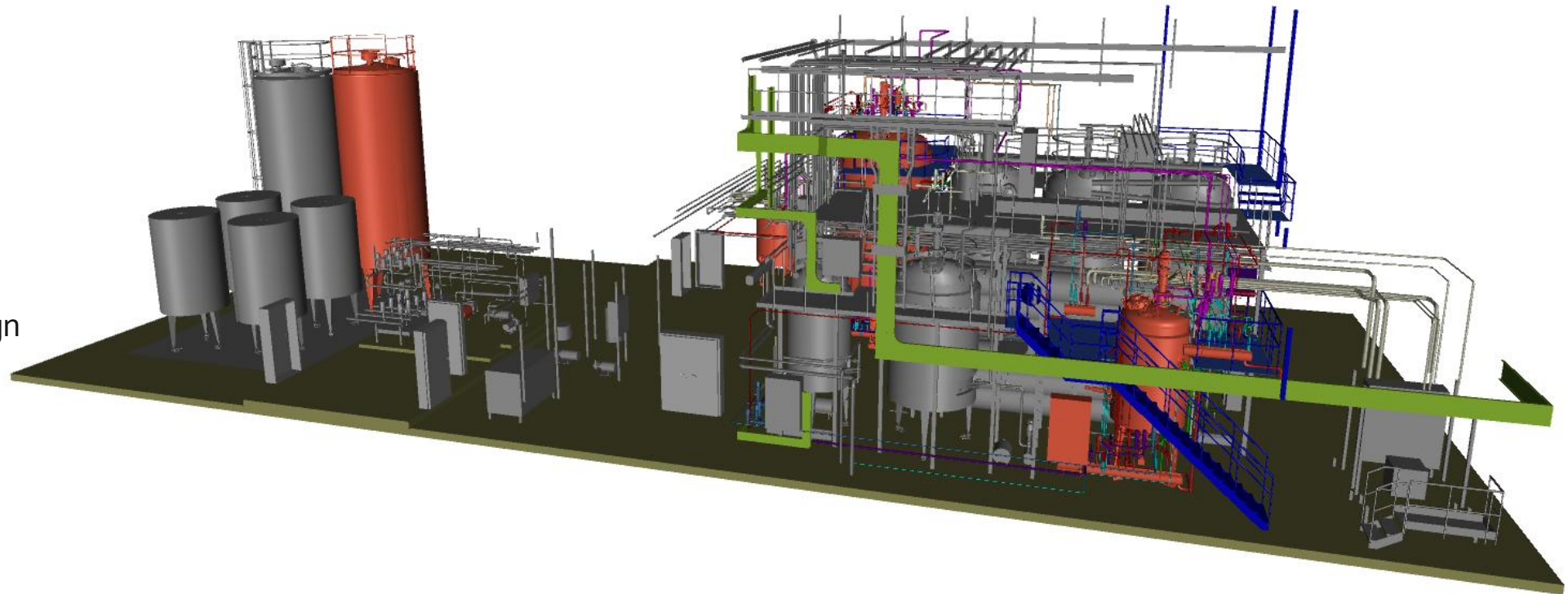
# EXTENSION OF THE TECHNOLOGICAL NODE OF FERMENTATION

Industry  
Location

**FOOD INDUSTRY**  
**SWITZERLAND, NESTLE**

Services

Detail design  
3D model



*Key activity: Extension of production*



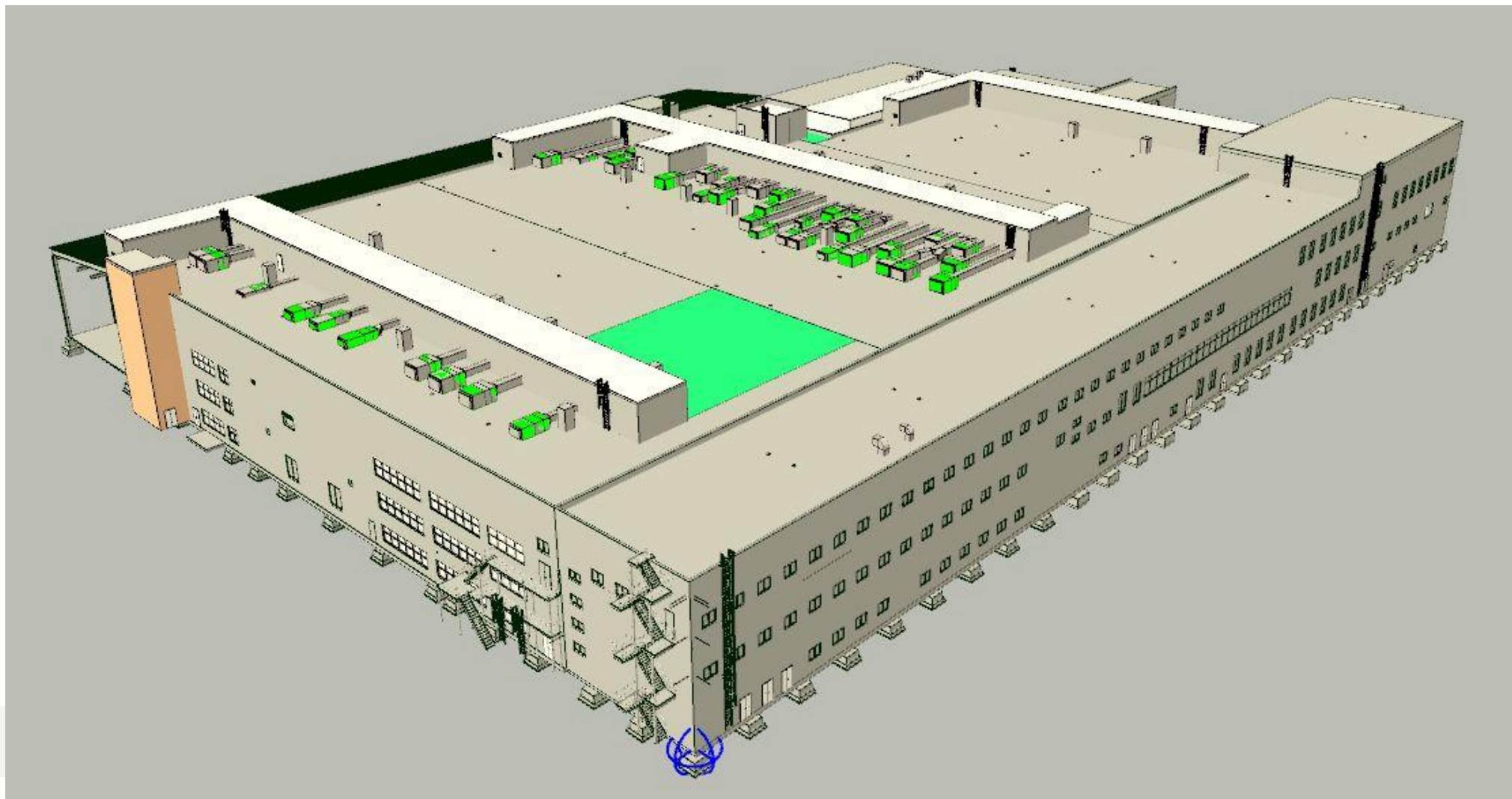
# NEW ENDOCRINE PLANT

Services	Conceptual design Building permit documentation Documentation for procurement Detail design
Client	<b>FAVEA Europe, Czech Republic</b>
Field	<b>Pharmaceutical INDUSTRY</b>



*Key activity: Complete 3D model and 2D documentation, model coordination*

# NEW ENDOCRINE PLANT





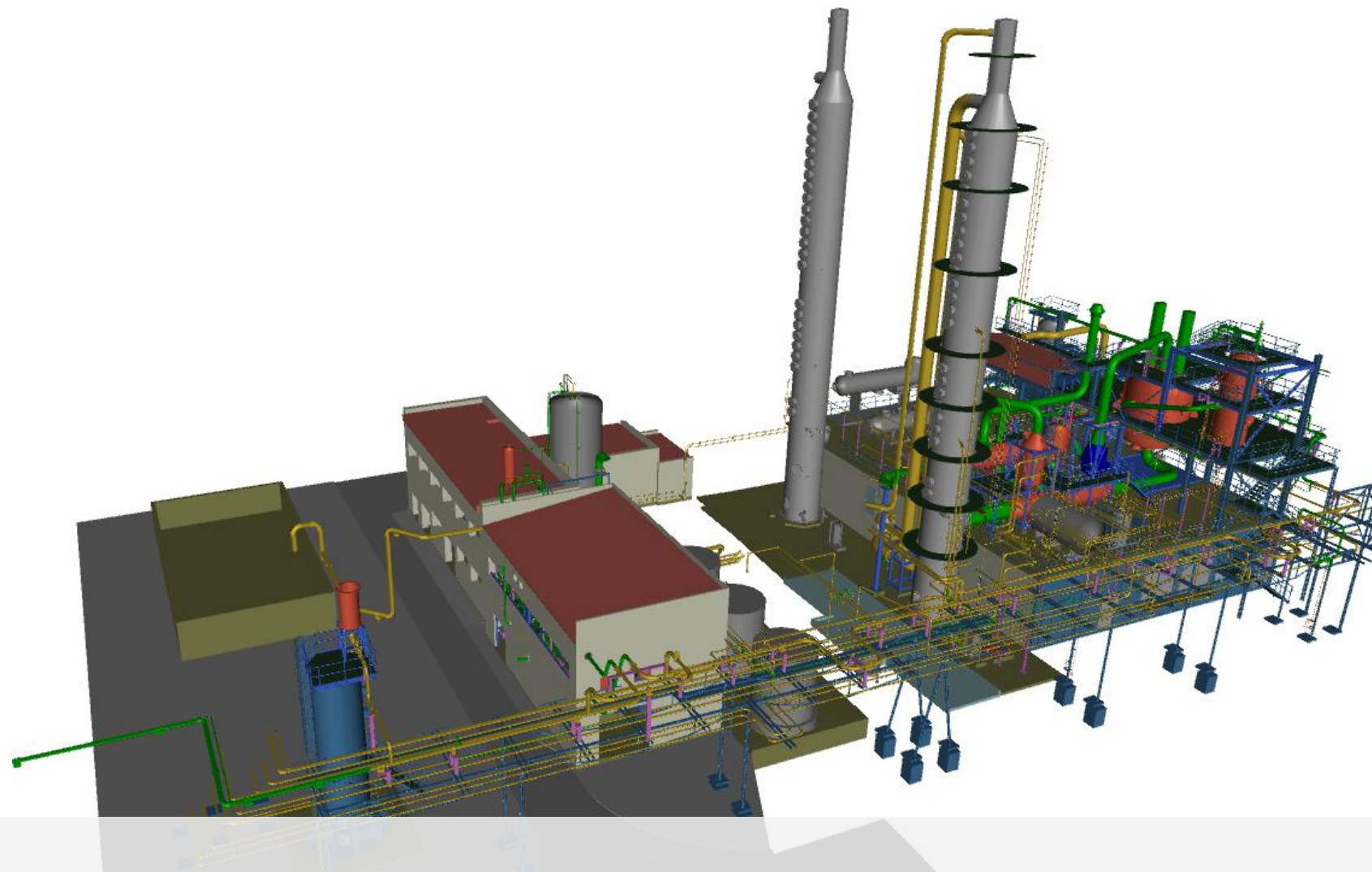
# FORMALDEHYDE PRODUCTION PLANT REVAMP

Industry  
Client

**CHEMICAL INDUSTRY**  
**KRONOSPAN GROUP**

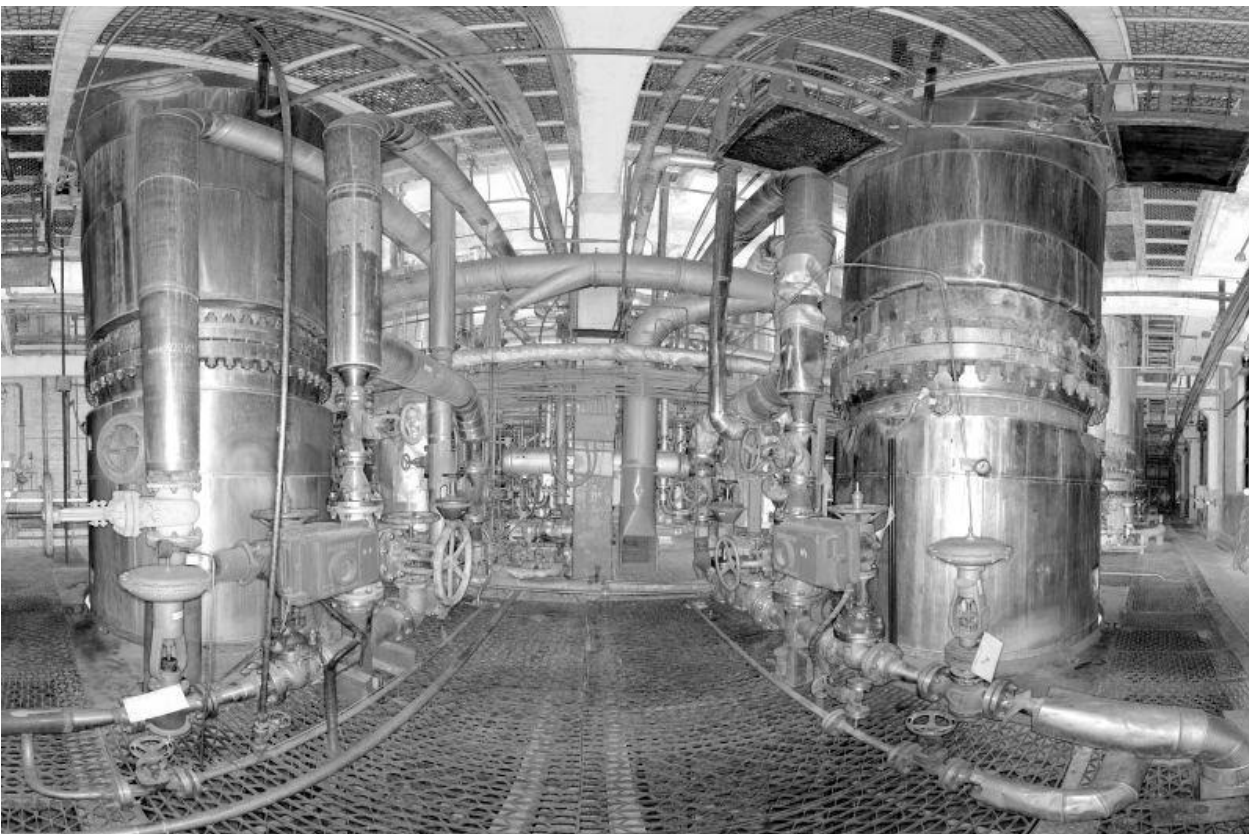
Services

Laser scan  
Detail design project  
As-Built

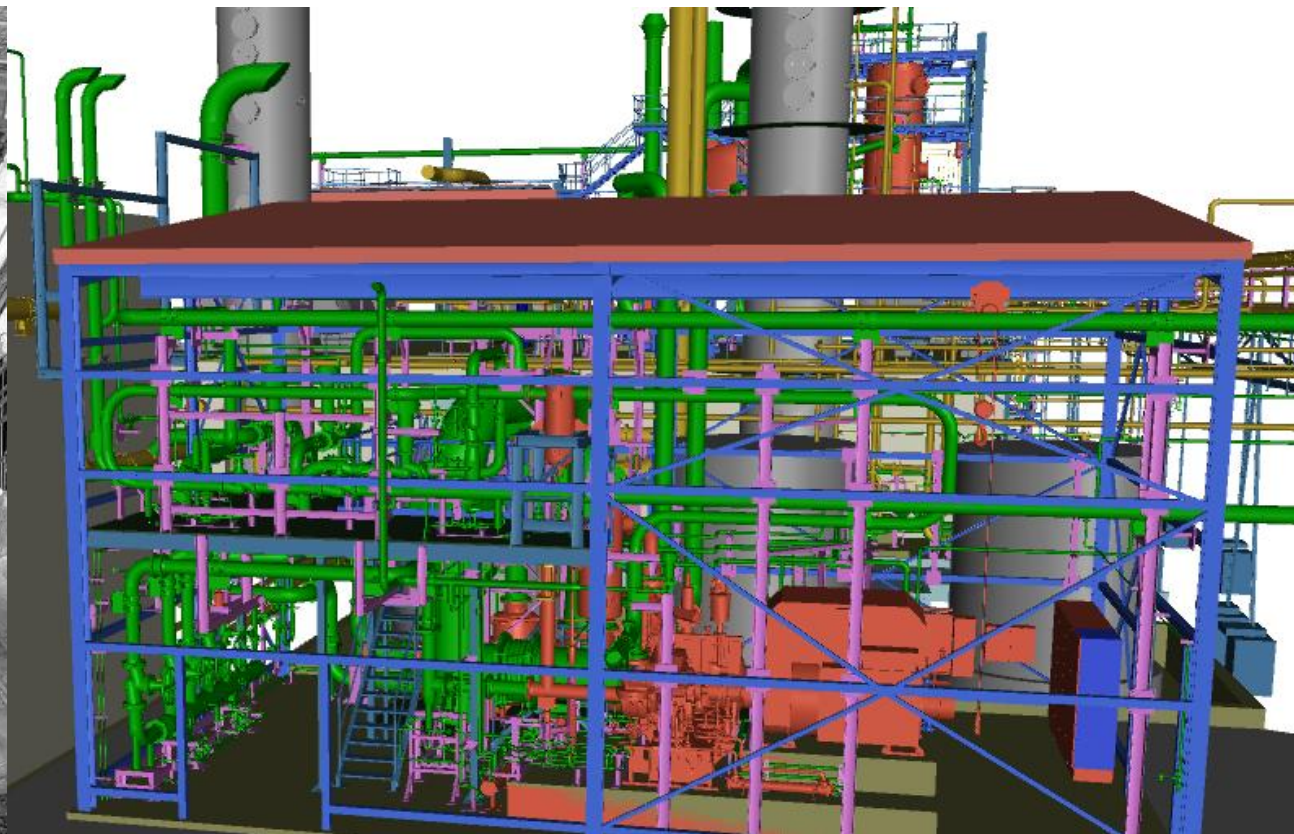


*Key activity: REVAMP*

# FORMALDEHYDE PRODUCTION PLANT REVAMP



LASER SCAN - FOTO



3D MODEL



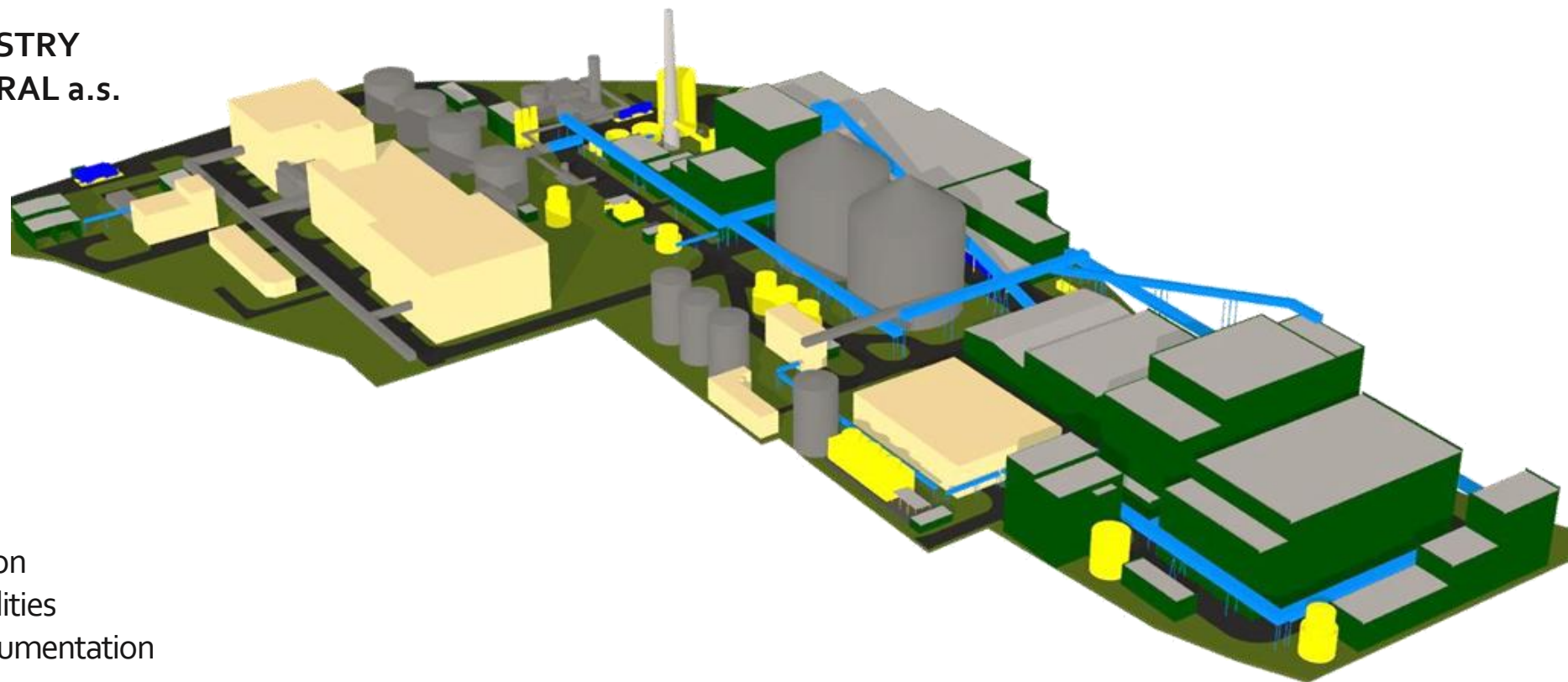
# 2G BIOETHANOL PRODUCTION

Field  
Location

**CHEMICAL INDUSTRY**  
**SLOVAKIA, ENVIRAL a.s.**

Services

IPPC  
HAZOP Study  
Risk Study  
Project for Demolition  
Temporary Site Facilities  
Building Permit Documentation



*Key activity: BUILDING PERMIT*

# CYCLOHEXANONE OXIDATION PLANT

## Services

Authorisation of dismantling  
Reverse Engineering  
Project of dismantling  
PDMS model  
Technical support and consultancy  
Supervision and coordination of safety

## Field Location

**CHEMICAL INDUSTRY**  
**SLOVAKIA, CHEMKO Strážske**



*Key activity: RELOCATION*



# CYCLOHEXANONE OXIDATION PLANT



Existing plant



# CYCLOHEXANONE OXIDATION PLANT



**Disassembling**



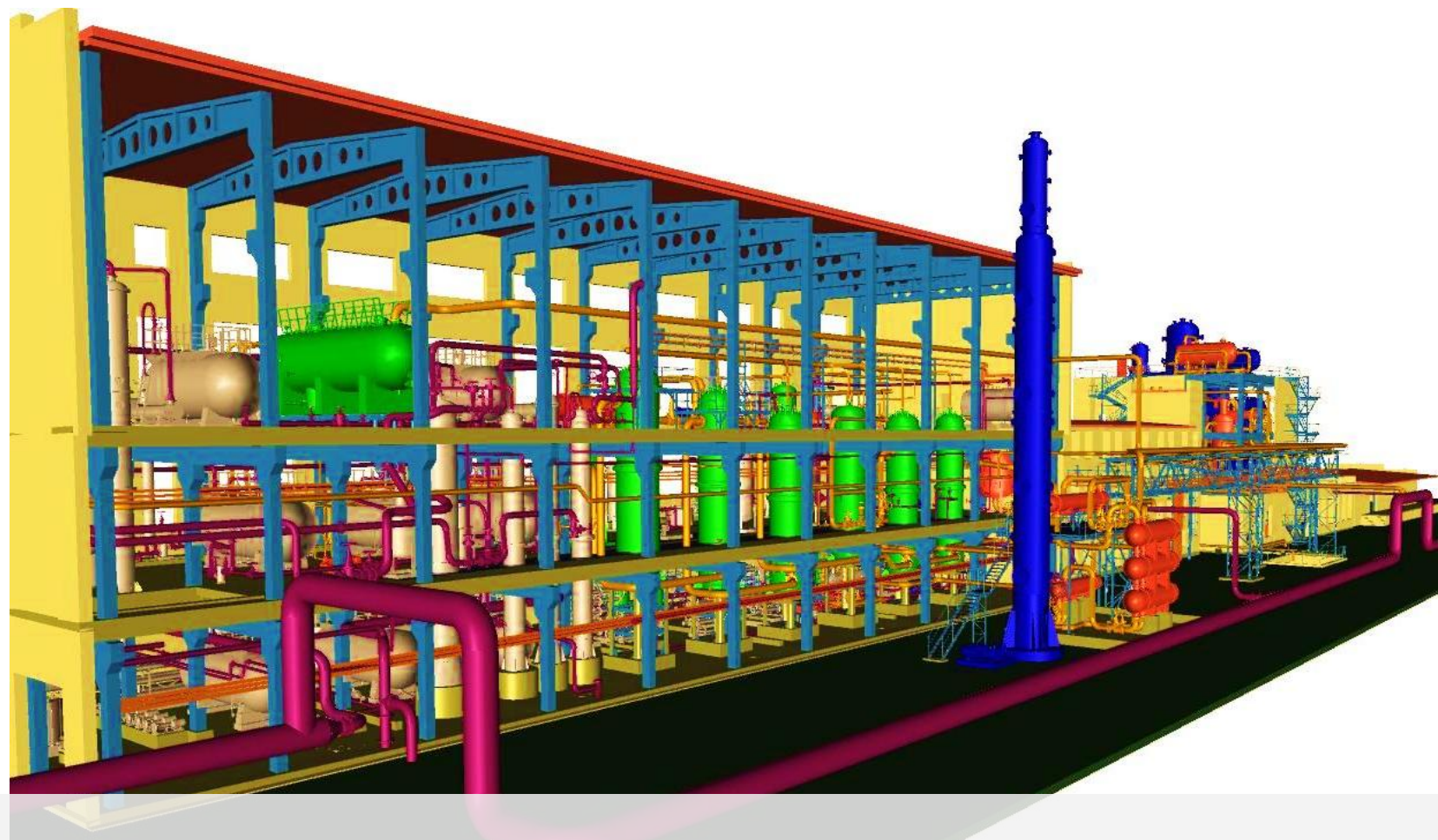
# CYCLOHEXANONE OXIDATION PLANT REVAMP

## Services

Conceptual Design / Engineering  
Laser Scan  
Reverse Engineering  
Basic Design / Engineering

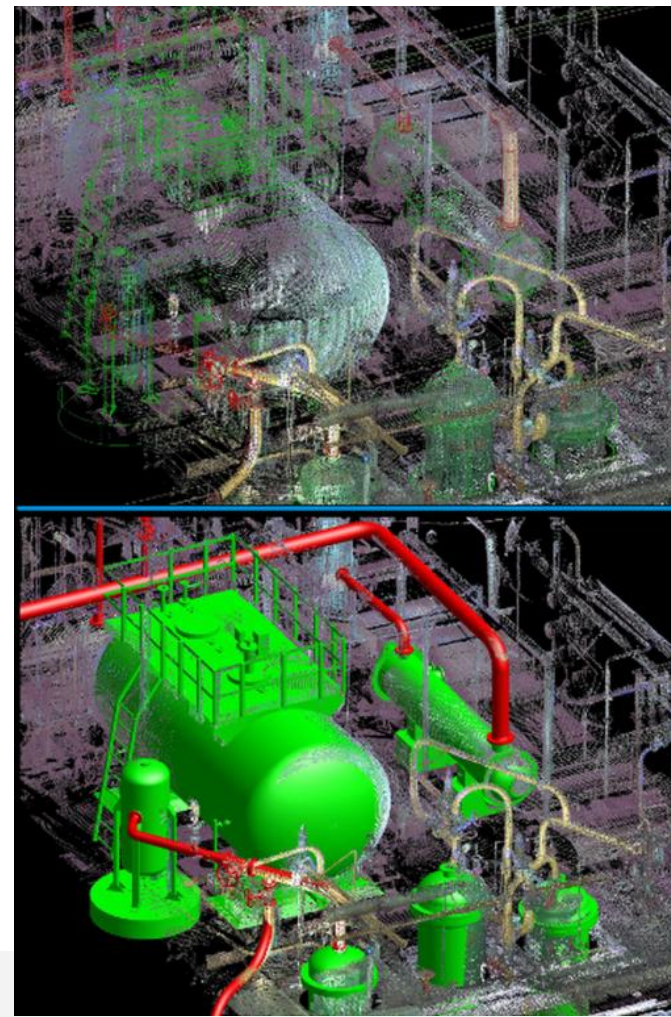
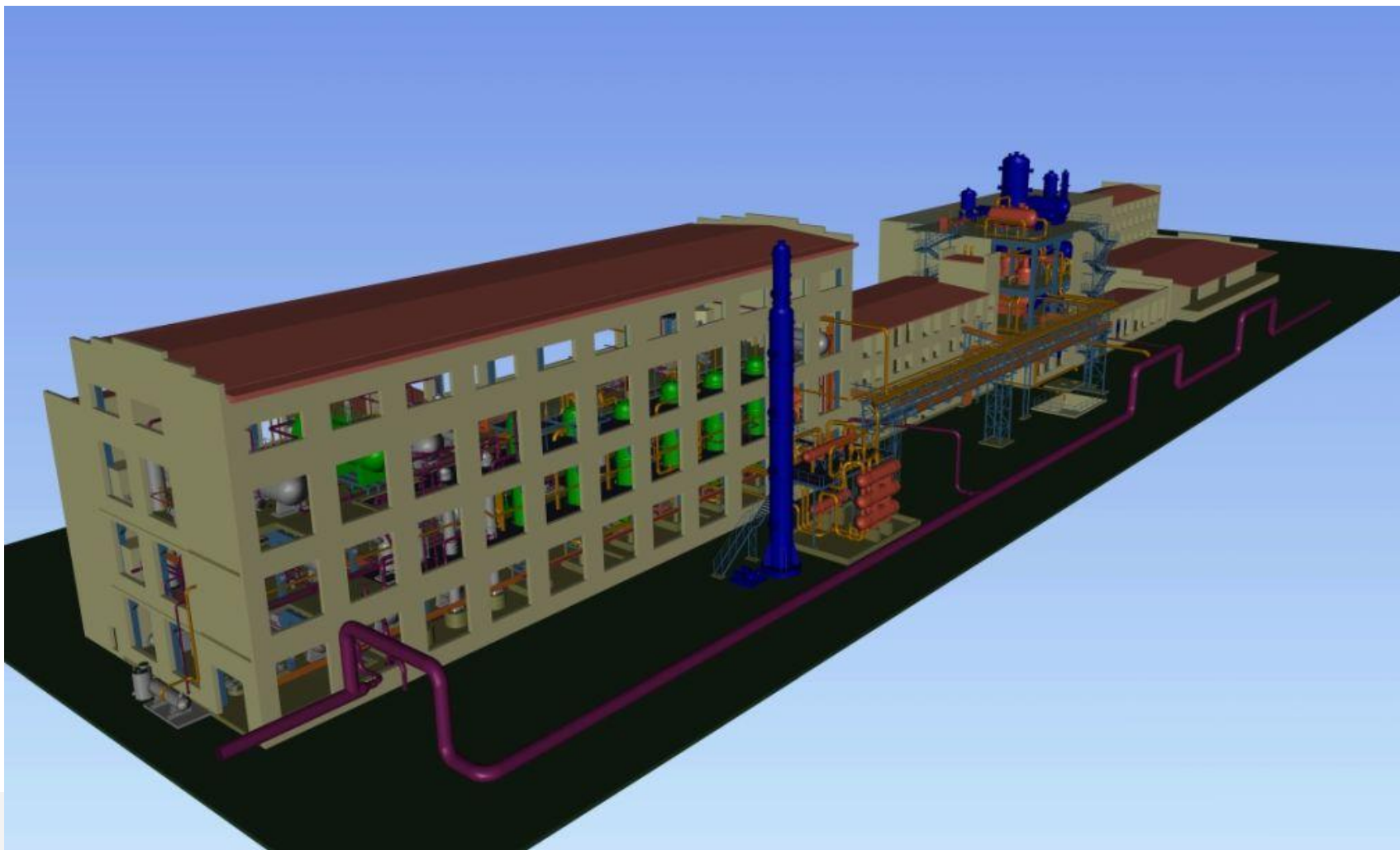
## Field Location

**CHEMICAL INDUSTRY**  
**OAO SHCHEKINOAZOT**



*Key activity: REVAMP*

# CYCLOHEXANONE OXIDATION PLANT REVAMP





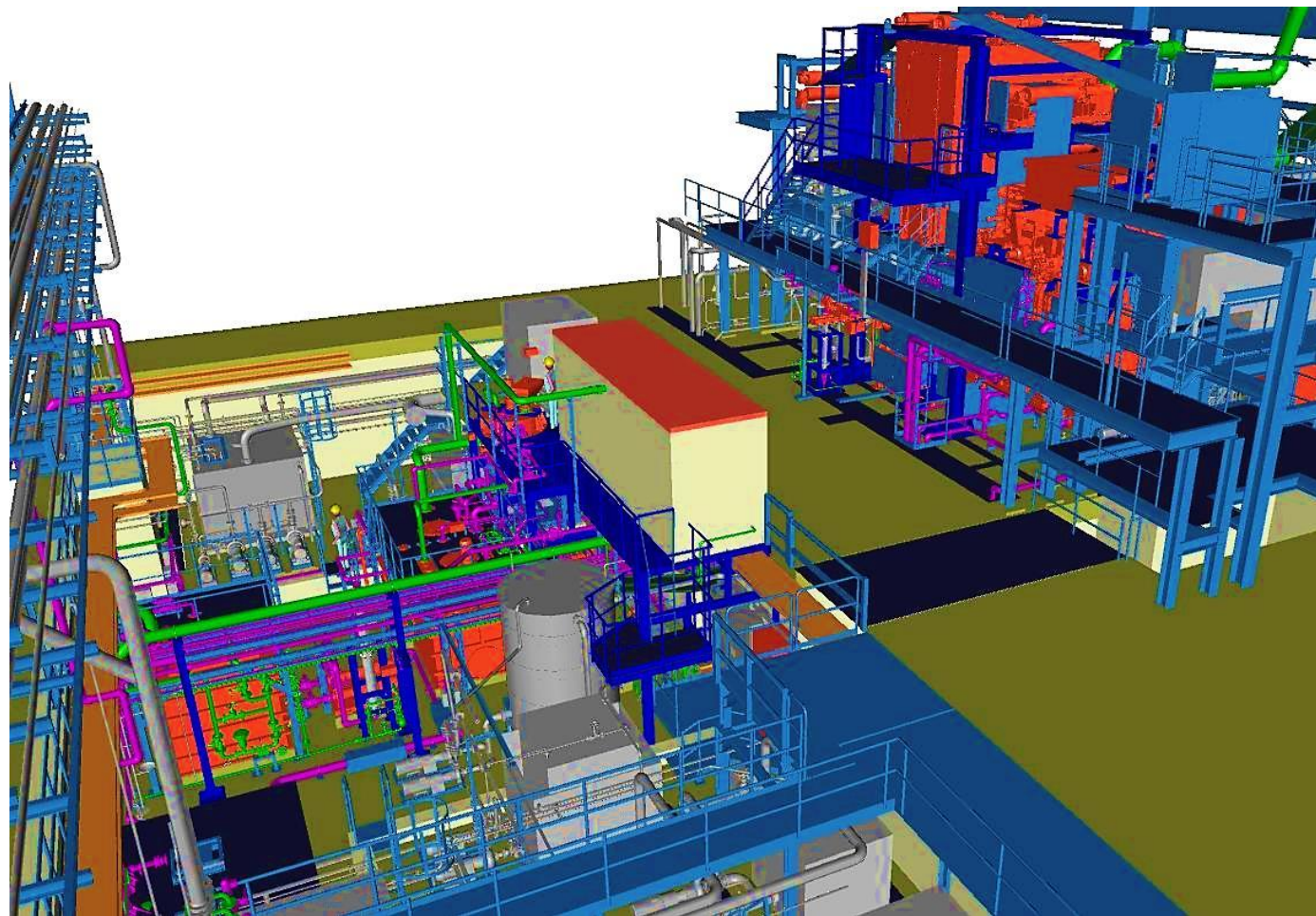
# CHROME-FREE PASSIVATION IN #2 ELECTROLYTIC TINNING LINE

Field  
Location

**METALURGY & METALWORKING  
SLOVAKIA, U.S.STEEL KOŠICE**

Services

Authority Documentation  
Laser Scan  
P&ID  
Reverse Engineering  
Basic Design / Engineering  
Building Permit Documentation  
Detail Engineering  
Supervision  
Maintenance Manuals  
Operation Manuals  
As-Built



*Key activity: NEW TECHNOLOGY*

# DESIGN WORKS - WINTERGAS LPG TANKER, MULTIGAS LNG TANKER

Field  
Location

**PETROLEUM INDUSTRY**  
**DENMARK**  
**NORGAS CARRIERS AS, NORWAY**

Services

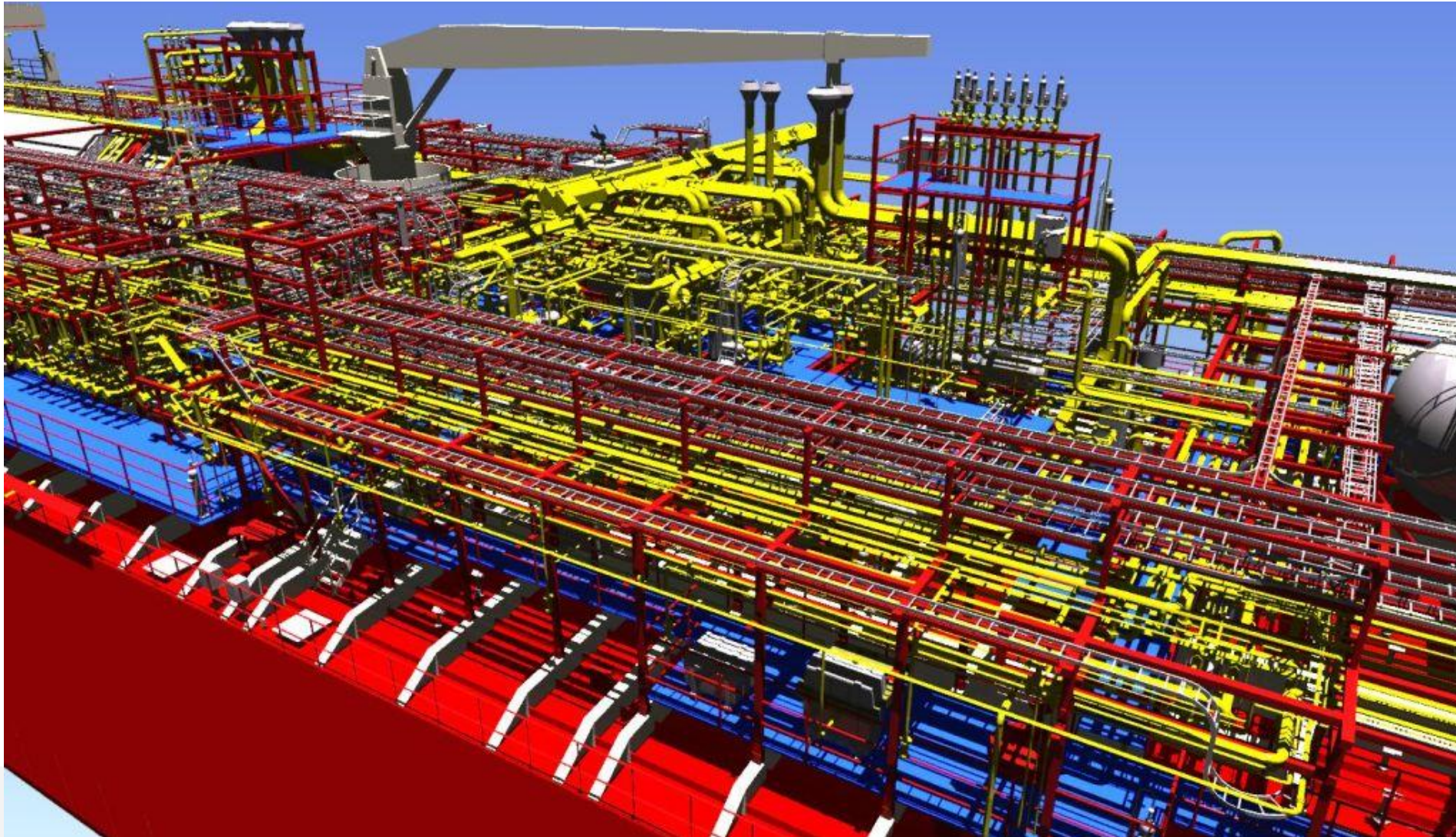
Detail Engineering  
PDMS model  
- catalogues  
- piping  
- steel structures  
- cables and cable routes



*Key activity: DETAIL DESIGN - PIPING & STEEL STRUCTURE*

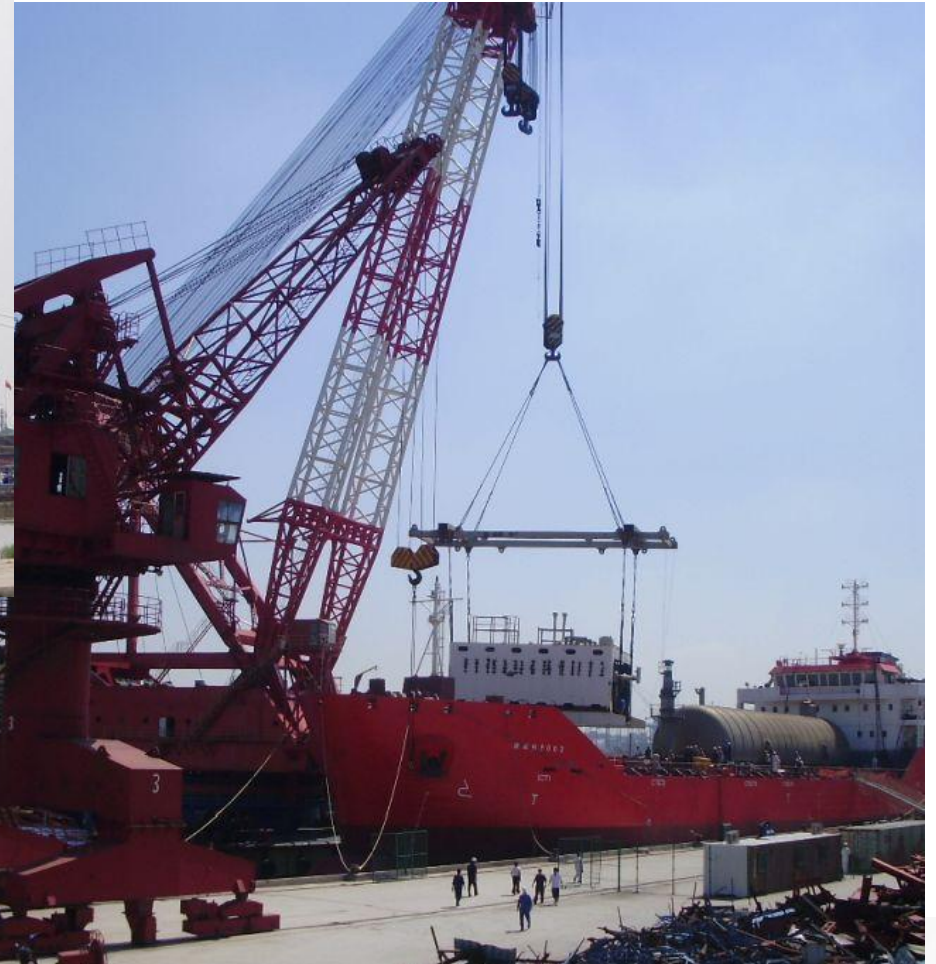


# DESIGN WORKS - WINTERGAS LPG TANKER, MULTIGAS LNG TANKER





# DESIGN WORKS - WINTERGAS LPG TANKER, MULTIGAS LNG TANKER





Services

Detail Engineering  
PDMS model

Field  
Location

**METALLURGY**  
**THE NETHERLANDS**  
**SIEMENS VAI (FRA), ENERGYCO, s.r.o. (SVK)**

*Key activity: DETAIL DESIGN*

## CONTINUOUS GALVANIZING LINE



# REFINERY REACTIVATION



**PETROLEUM INDUSTRY**  
**CUBA**  
**ENERGO CONTROL, s.r.o.**

Field  
Location

Basic Design / Engineering  
Detail Engineering  
Supervision

Services

*Key activity: REVAMP OF FIELD INSTRUMENTATION*



# REFINERY REACTIVATION

## OUR PEOPLE ON SITE



CLIENT	PROJECT
Chemical Industry <i>CZECH REPUBLIC</i>	<b>GLUE PRODUCTION EXPANSION</b>
Chemical Industry <i>SLOVAKIA</i>	<b>BIOMASS HEATING PLANT</b>
Steel Industry <i>SLOVAKIA</i>	<b>CGL<sub>2</sub> CHEM COATER REVAMP OF AMMONIA SPLITTING EQUIPMENTS</b>
Chemical Industry <i>ITALY</i>	<b>CYCLOHEXANONE RECTIFICATION UNIT REVAMP, KUJBISHEV AZOT TOGLIATI, RUSSIA</b>
Chemical Industry <i>AUSTRIA</i>	<b>BIODIESEL PLANT, ARFUELS AUSTRALIA</b>
IFC (THE WORLD BANK GROUP) <i>USA</i>	<b>CHEMICAL ENGINEERING AND CONSULTING</b>

## OTHER SELECTED REFERENCES





# THANK YOU FOR YOUR TIME

[www.ipe.sk](http://www.ipe.sk)

## LIST OF REFERENCES

No.	Project Name	Company/Client	Scope of work	The size of project	Year of project	Country/location of project	Project Type
1	Extension of glue production plant	Kronospan GmbH, Germany	Technological schemes P&ID elaboration Documentation for Building Permit		2024	Lampertswalde, Germany	Chemical Industry
2	Reconstruction of HV and LV overhead cable routes	DUSLO, a.s. Šafa	Detail Design		2024	Slovakia	Chemical Industry
3	Streamlining the CIP process	ENVIRAL, a.s.	Detail Design 3D model		2024	Slovakia	Chemical Industry
4	Engineering for permanent operation of the plant	SIAD Slovakia spol. s r.o.	Final commissioning for permanent use of water structures Final commissioning for roads and paved areas Permit of permanent use of the middle source of pollution Final Commissioning	Number of equipments : 97 Number of pipes : 130	2023/2024	Slovakia	Chemical Industry
5	Extension of power station VUKVET	ENVIRAL, a.s.	Conceptual study Building Permit documentation Detail design of connection points		2023	Slovakia	Water & Energy Industry
6	Projekt CO2	SIAD Slovakia spol. s r.o.	CO2- Audit of existing documentation Engineering for trial operation of the plant Development of an emergency plan		2022/2023	Slovakia	Chemical Industry
7	Energy self-sufficiency in Duslo, a.s. Strážské Plant	Duslo s.r.o.	Building Permit documentation		2022	Slovakia	Chemical Industry
8	Chrome-free Passivation EC1	U. S. Steel Košice, s.r.o.	Laser Scan P&ID Basic Design / Engineering Building Permit Documentation Documentation for Dismantling Detail Engineering Workshop Documentation Supervision	Number of pipes : 186 Number of valves: 285	2021/2024	Slovakia	Metalurgy & Metalworking
9	Production of binding materials	Kronospan Group	Elaboration of P&IDs Mechanical part - Detail design of the Plant Civil part - Piloting, foundations, Sockle panels, Facade covering, Roof	Number of P&IDs: 45 Number of pipes : 1312 Number of valves : 2853 Number of equipments: 199	2021/2022	Kronospan Malta	Chemical Industry
10	Installation of a gravure printing machine Heliostar	Schur Flexibles Moneta	Building Permit documentation Technical consultation		2021	Slovakia	Chemical Industry
11	New endocrine plant	Favea Europe, Czech Republic	Conceptual design Building permit documentation Documentation for procurement Detail design	Number of equipments : 852	2020/2021	Russia	Pharmaceutical Industry
12	Extension of the technological node of fermentation	SWITZERLAND, NESTLE	Detail Design 3D model	Number of pipes : 188 Number of valves: 458 Number of equipments: 4	2020/2021	Switzerland	Food Industry
13	Ethanol distillation and rectification	Slovenské liehovary a likérky, a.s.	3D model of existing state Detail design LV connection Documentation for Technical inspection As-Built	Number of pipes : 377 Number of valves: 144	2020	Slovakia	Food Industry
14	Above ground storage of oil and petrochemical products - SWS Vojany	Intech s.r.o.	Building permit documentation Cost Estimation		2020	Slovakia	Petroleum Industry
15	Reconstruction of K9 Boiler	Honeywell s.r.o., Slovensko	Detail Engineering As-Built		2020	Slovakia	Water & Energy Industry
16	Biorafinery - Bioethanol 2G Production – SO 20 – Thermal Pretreatment	ENERGOCHEMICA TRADING a.s.	Building Permit Documentation Tender Documentation Detail Engineering Steel structure workshop documentation		2019	Slovakia	Chemical Industry
17	Modernization of the refractory clinkers production line	ENVIRMINE-ENERGO, a.s., Czech Rep.	Building Permit Documentation Static calculation of steel structures Detail Engineering Workshop documentation of steel structure		2019	Slovakia	Metalurgy & Metalworking



No.	Project Name	Company/Client	Scope of work	The size of project	Year of project	Country/location of project	Project Type
18	Steam turbine + generator	Kronospan Group / DUKOL Ostrava, a.s., Czech Rep.	Building Permit Documentation Tender Documentation Detail Engineering Pipe Stress Analysis - CAESAR II	Number of pipes : 96 Number of valves: 153 Number of equipments: 9	2018/2019	Czech Republic	Chemical Industry
19	COG Desulfurization Plant	JPS s.r.o. Košice	2018 - 3D model of existing state PDMS model designed using laser scan 2018 - COG Desulfurization Plant - Deflegmator Detail Design Piping stress analysis - CAESAR II 2019 - COG Desulfurization Plant – Coal Water Stripper Detail Design Piping stress analysis - CAESAR II Annex No.2		2018/2019	U.S.Steel Košice, s.r.o., Slovakia	Metalurgy & Metalworking
20	EcoFlex - Recausticizing	JPS s.r.o. Košice	Detail Design of piping PDMS model of piping		2017/2018	MONDI Štětí, Czech Republic	Chemical Industry
21	Glue production expansion	Kronospan Group / DUKOL Ostrava, a.s., Czech Rep.	Building Permit Documentation - 2017 Detail Engineering - 2018	Number of pipes : 214 Number of valves: 425 Number of equipments: 63	2017/2018	Czech Republic	Chemical Industry
22	Formaldehyde Plant 1 Modernisation	Kronospan Group / DUKOL Ostrava, a.s., Czech Rep.	Building Permit Documentation - 2017 Detail Engineering - 2018	Number of pipes : 125 Number of valves: 248	2017/2018	Czech Republic	Chemical Industry
23	FeSiCa crushing unit	OFZ, a.s. Široká	Authority Documentation Building Permit Documentation Tender Documentation Change of construction purpose		2017/2018	Slovakia	Metalurgy & Metalworking
24	2G bioethanol production	ENVIRAL, a.s.	Building Permit Documentation IPPC HAZOP Study Risk Study Temporary Site Facilities Project for demolition		2017	Slovakia	Chemical Industry
25	ECOPOL II - The expansion production of bio-polymers	Nexis Fibers a.s., Humenné	Amendment of project from 2014 - Detail Engineering		2017	Slovakia	Chemical Industry
26	Chrome-free Passivation in #2 Electrolytic Tinning Line	U. S. Steel Košice, s.r.o.	Authority Documentation Laser Scan Reverse Engineering Basic Design / Engineering Building Permit Documentation Detail Engineering Workshop documentation Supervision Maintenance Manuals Operation Manuals As Built	Number of pipes : 194 Number of valves: 312	2015/2016/2017	Slovakia	Metalurgy & Metalworking
27	Biomass Heating Plant	ENERGOCHEMICA TRADING a.s.	Zoning Permit Documentation Authority Documentation Laser Scan Reverse Engineering Basic Design / Engineering Building Permit Documentation Supervision		2015/2016/2017	Slovakia	Water & Energy Industry
28	CNCG and SOG Disposal	BUKOCEL, a.s.	Detail Design Start-up As Built		2016/2017	Slovakia	
29	CGL2 Chem Coater	U. S. Steel Košice, s.r.o.	Authority Documentation Basic Design / Engineering Building Permit Documentation Detail Engineering Laser Scan Reverse Engineering Supervision		2016/2017	Slovakia	Metalurgy & Metalworking
30	KA-oil Production Plant Revamp	ZAO Kaprolaktam Kemerovo, Russia	Basic Design Study Laser scan Reverse Engineering		2015/2016	Slovakia	Chemical Industry

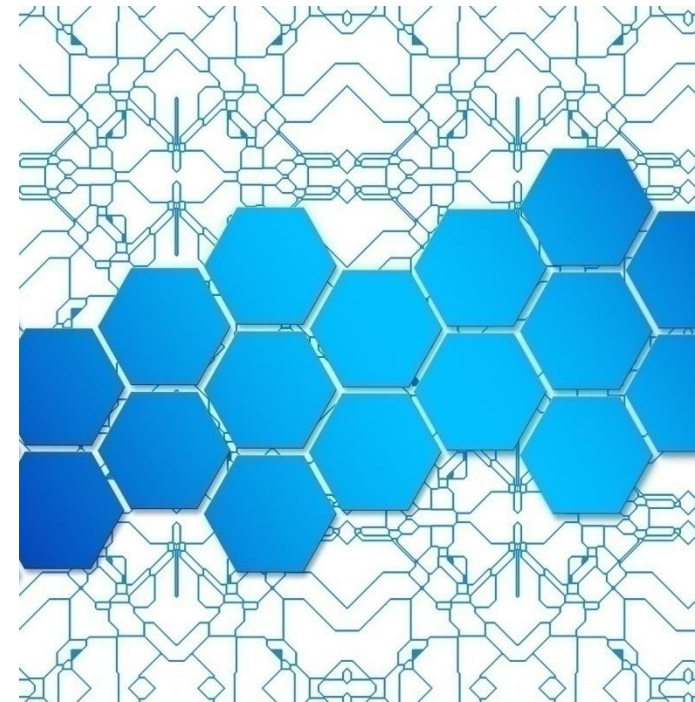
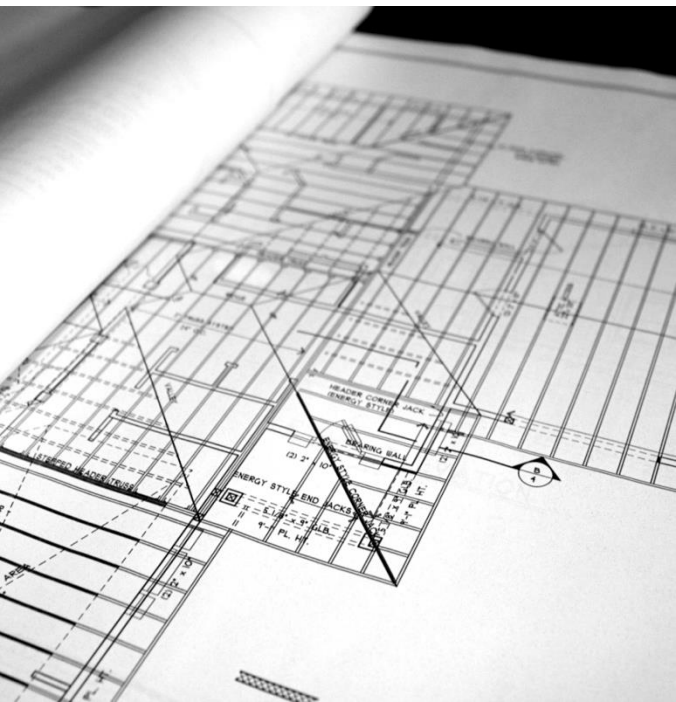
No.	Project Name	Company/Client	Scope of work	The size of project	Year of project	Country/location of project	Project Type
31	Revamp of ammonia splitting equipments	Proing, s.r.o.	As-built documentation Detail Design PDMS model		2015	U.S.Steel Košice, s.r.o., Slovakia	Metalurgy & Metalworking
32	Abbaye Saint Pierre reconstruction in Mas Grenier	SCI Abbaye Saint Pierre, Mas-Grenier, France	Detail Design Laser Scan Reverse Engineering Study		2014/2015	Mas-Grenier, France	Architecture
33	Mining and processing of serpentinite for silica and Mg(OH)2 production	Silicon, a.s. Dobšiná	2014 year Detail Design PDMS model 2013 year Basic Design PDMS model 2006 year Building Permit Documentation Study PDMS model Zoning Permit Documentation		2006,2013,2014	Slovakia	Chemical Industry
34	ECOPOL II - The expansion production of bio-polymers	Nexis Fibers a.s., Humenné	Authority Documentation Building Permit Documentation Detail Engineering Laser Scan PDMS model Reverse Engineering		2014	Slovakia	Chemical Industry
35	Production of sulfate celuloze	BUKOCEL, a.s.	Building Permit Documentation Detail Design PDMS model		2013	Slovakia	Chemical Industry
36	Main Square	Vinné village	Study		2013	Slovakia	Architecture
37	Formaldehyde Production Plant Revamp	OAO Shchekinoazot, Shchekino, Russia	2010/2011: Conceptual Design / Engineering Supervision 2013: Start-up Basic Design / Engineering		2010/2011,2013	Russia	Chemical Industry
38	Automatic gas regulator station Anopino	UNIGAS EUROPE s.r.o.	Building Permit Documentation Detail Engineering PDMS Based Documentation		2012/2013	Russia, region Vladimirovsky	Industrial Infrastructure
39	Project - PEG2MAL	TechniCAD Engineering SA, Switzerland	pipng and HVAC in PDMS		2012/2013	Belgium	Pharmaceutical Industry
40	Evaporation of ammonia by warm water	HNOJIVÁ Duslo s.r.o.	Basic Design / Engineering Supervision		2012	Slovakia	Chemical Industry
41	Drying bio-products	Noving Nováky	Detail Engineering PDMS model Author Supervision		2012	Evonik Fermas s.r.o., Slovakia	Pharmaceutical Industry
42	Toll Manufacturing Aschland - TMA	Noving Nováky	Detail Engineering PDMS model Supervision		2012	Evonik Fermas s.r.o., Slovakia	Pharmaceutical Industry
43	Production of liquid fertilizers from organic materials	Rokosan s.r.o.	Study		2012	Slovakia	Chemical Industry
44	Cyclohexanone Rectification Unit Revamp	KOCH-GLITSCH Italy	Basic Design / Engineering PDMS model		2012	Kujbishevazot Togliati, Russia	Chemical Industry
45	Production Plant CROWN Bevcan Kechnec	CROWN Bevcan Slovakia s.r.o.	Authority Documentation IPPC Reverse Engineering Building Permit Documentation Detail Engineering Supervision As-built Documentation		2008-2012	Slovakia	Metalurgy & Metalworking
46	Extension and Reconstruction of Hotel Armales	Armales, a.s.	Building Permit Documentation Zoning Permit Documentation		2011	Slovakia	Architecture
47	Realization of the cogeneration unit J 320 GS - SL installation	DIAKOL STRÁŽSKE, s.r.o.	Authority Documentation Basic Design / Engineering Building Permit Documentation		2011	Slovakia	Chemical Industry



No.	Project Name	Company/Client	Scope of work	The size of project	Year of project	Country/location of project	Project Type
48	The new ammonia compressor MYC N8M installation	HNOJIVÁ Duslo s.r.o.	Detail Engineering Supervision		2011	Slovakia	Chemical Industry
49	Compressed air production facilities	HNOJIVÁ Duslo s.r.o.	Detail Engineering Supervision		2011	Slovakia	Chemical Industry
50	New C102B microtower installation	HNOJIVÁ Duslo s.r.o.	Detail Engineering Supervision		2011	Slovakia	Chemical Industry
51	Reconstruction of the evaporators and evaporation technology equipment	HNOJIVÁ Duslo s.r.o.	Detail Engineering Supervision		2011	Slovakia	Chemical Industry
52	Protocol for determination of external influences and hazardous areas	SYRÁREŇ BEL SLOVENSKO a.s.	Detail Engineering		2011	Slovakia	Chemical Industry
53	Reconstruction of returning condensate distribution-Vojany Power Plant	INTERKONTAKT spol. s.r.o.	Detail Engineering Supervision		2011	Elektrárň Vojany, Slovakia	Water & Energy Industry
54	Fire-fighting measures in Vojany power plant - coal handling section - subsection "sprinklers and water curtains"	INTERKONTAKT spol. s.r.o.	Detail Engineering Supervision		2011	Elektrárň Vojany, Slovakia	Water & Energy Industry
55	Coal handling control system	ENERGO CONTROL s.r.o.	Detail Engineering Supervision		2011	Slovenské elektrárne, a.s., Slovakia	Water & Energy Industry
56	TG15 Reconstruction - Delivery and installation of control system and instrumentation	ENERGO CONTROL s.r.o.	Detail Engineering Supervision		2011	Slovenské elektrárne, a.s., Slovakia	Water & Energy Industry
57	Light and sound alarms of the emergency readiness	Telegrafia, a.s.	Detail Engineering Supervision		2011	Slovenské elektrárne, a.s., Slovakia	Water & Energy Industry
58	Chemical Engineering and Consulting	IFC (The World Bank Group), Washington, DC, USA	Process simulation - ASPEN Plus+ Conceptual Study / Engineering Consulting		2010/2011	Russia	Chemical Industry
59	The construction of scrap yard in the Chemko Strážske premises	TSR Slovakia, s.r.o.	Zoning Permit Documentation Authority Documentation Building Permit Documentation Detail Engineering Supervision		2010/2011	Slovakia	Architecture
60	Logistics Centre Construction LSC-Battery charging room	Združenie CEVING	Building Permit Documentation Conceptual Design / Engineering Detail Engineering Supervision		2010/2011	GETRAG FORD Transmissions Slovakia, s.r.o., Slovakia	Architecture
61	Concept of Hôrka Zone Urban Design	Vinné village	Study		2010	Slovakia	Architecture
62	Cyclohexanone Oxidation Plant Revamp	OAO Shchekinoazot, Shchekino, Russia	Basic Design / Engineering Conceptual Design / Engineering Detail design Laser Scan Reverse Engineering		2009/2010	Russia	Chemical Industry
63	Senior House AVE EVA	Slavomír Šoltys, Michalovce	Study		2009	Slovakia	Architecture
64	Wine Museum	Vinné village	Detail Engineering		2008	Slovakia	Architecture
65	PPT Production Area	Združenie CEVING	Building Permit Documentation		2008	Slovakia	Industrial Infrastructure
66	Mobile Concrete Mixtures Unit	UND - FRISCHBETON s.r.o.	Building Permit Documentation		2008	Slovakia	Industrial Infrastructure
67	Labeling of Escape Ways and Exits in DZ HD Building	U. S. Steel Košice, s.r.o.	Detail Engineering		2008	Slovakia	Metalurgy & Metalworking
68	Rebuilding of Power Distributors and Emergency Lighting - HCl Recovery Station	U. S. Steel Košice, s.r.o.	Detail Engineering		2008	Slovakia	Metalurgy & Metalworking
69	Water Flow Measurement at Heat Station Intake	TRANSCOM TECHNIK, s.r.o.	Detail Engineering Procurement Turn-key Delivery		2008	Slovakia	Water & Energy Industry
70	Tapping of Heavy Products	SWS spol. s.r.o. Vojany	Detail Engineering Supervision		2008	Slovakia	Petroleum Industry

No.	Project Name	Company/Client	Scope of work	The size of project	Year of project	Country/location of project	Project Type
71	Disassembly of Cyclohexanone Production Plant in Strážske	OAO Shchekinoazot, Shchekino, Russia	Authorisation of dismantling Reverse Engineering Project of dismantling Detail Engineering PDMS model Technical support and consultancy during the dismantling of the Cyclohexanone production unit Supervision and coordination of safety during the construction	Number of pipes : 1161 Number of valves: 2045 Number of equipments: 401	2008	Slovakia	Chemical Industry
72	Emissions Disposal	Chemko, a.s. Strážske, Slovensko	Building Permit Documentation, Detail Engineering		2008	Slovakia	Chemical Industry
73	Formaldehyde Production Unit Fd3 Reactivation	Chemko, a.s. Strážske, Slovensko	Building Permit Documentation, Detail Engineering		2008	Slovakia	Chemical Industry
74	Enhancement of Electric Power Disponibility of Steam Counterpressure Turbogenerator No. 3	Chemes, a.s. Humenné	Building Permit Documentation, Detail Engineering		2008	Slovakia	Water & Energy Industry
75	Multigas LNG tanker	Grontmij   Carl Bro A/S Denmark	Detail Engineering - Steel structures and piping, PDMS model		2008	Denmark	Petroleum Industry
76	Waste Incinerator - Liquid Wastes Filtration	DUSLO, a.s. Šaľa	Detail Engineering		2008	Slovakia	Chemical Industry
77	Tandem Coil Mill-MCC	Datakon s.r.o. Košice	Detail Engineering		2008	Germany	Metalurgy & Metalworking
78	Lavatory Facility - Vinné Lake Camp	Vinné village	Detail Engineering		2008	Vinné, Slovakia	Architecture
79	ATL, ATR Replacement	ABB, s.r.o. Košice	Detail Engineering		2008	Slovakia	Water & Energy Industry
80	Dismantle of Process Equipment	CENON, s.r.o. Strážske	Authority Documentation, uilding Permit Documentation, Supervision		2008	Slovakia	Chemical Industry
81	DVL3 – Continuous Galvanizing Line	ENERGYCO, s.r.o., Slovakia	Detail Engineering, PDMS model	Number of pipes : 1005 Number of valves: 298 Number of equipments: 237	2007/2008	Ijmuiden, The Netherlands	Metalurgy & Metalworking
82	Reconstruction of Proda Building	Proda s.r.o. Malčice	Building Permit Documentation, Detail Engineering, Supervision		2007/2008	Slovakia	Industrial Infrastructure
83	Calcium Nitrate Production Unit Revamp	HNOJIVÁ Duslo s.r.o.	Building Permit Documentation, Detail Engineering, PDMS Based Documentation, Supervision	Number of pipes : 140 Number of valves: 308 Number of equipments: 100	2007/2008	Slovakia	Chemical Industry
84	Reactivation of Petroleum Refinery - Reinstrumentation	ENERGO CONTROL s.r.o.	Basic Design / Engineering, Detail Engineering, Supervision		2007/2008	Camilo Cienfuegos, Cuba	Petroleum Industry
85	Reconstruction of Tourist Hostel "Chemik" to Hotel Facility	Chemko, a.s. Strážske	Building Permit Documentation, Study, 3D visualisation in cooperation with company Slovakia Supercomputers,s.r.o. Košice		2007	Slovakia	Architecture
86	Hydrocracker Complex	ABB Lummus Global Brno, Czech Rep.	Detail Engineering		2007	Kirishi, Russia	Petroleum Industry
87	Boiler Desulfurization - Control System	Slavex Industrial Filters	Detail Engineering, Procurement, Turn-key Delivery		2007	Humenné, Slovakia	Water & Energy Industry
88	Design Helpout - Cyclohexanone Production Unit	KG Process Innovations	Basic Design / Engineering		2007	Grodno, Belarus	Chemical Industry
89	Solidification of Wastes and Old Environmental Loads	Chemko, a.s. Strážske	Building Permit Documentation, Detail Engineering		2007	Slovakia	Industrial Infrastructure
90	Wintergas LPG tanker	Grontmij   Carl Bro A/S Denmark	Detail Engineering - steel structures and piping, PDMS model	Number of pipes : 600 Number of valves: 486 Number of equipments: 155	2007	Denmark	Petroleum Industry
91	Shift from Continual to Discontinual Diakol Production	DIAKOL STRÁŽSKE, s.r.o.	Conceptual Design / Engineering		2007	Slovakia	Chemical Industry
92	Overhaul of Blower Section and Piping Rearrangement	DIAKOL STRÁŽSKE, s.r.o.	Detail Engineering		2007	Slovakia	Chemical Industry
93	Overhaul of Formaldehyde Production Unit Reaction Section	DIAKOL STRÁŽSKE, s.r.o.	Detail Engineering		2007	Slovakia	Chemical Industry
94	Provisions against Methanol Storage Tank Overfilling	DIAKOL STRÁŽSKE, s.r.o.	Detail Engineering, Procurement, Turn-key Delivery		2007	Slovakia	Chemical Industry
95	ECC Project	ABB Lummus Global Brno	Detail Engineering		2006	Singapore	Petroleum Industry
96	Current State of Technology with Present Code	SWS spol. s.r.o. Vojany	Conceptual Design / Engineering		2006	Slovakia	Petroleum Industry
97	Well Water and Gasoline Flow Measurement	Karotáž a cementace, s.r.o. Hodonín odštepny, závod Michalovce	Detail Engineering, Procurement, Turn-key Delivery		2006	Slovakia	Petroleum Industry
98	Extension of UF Adhesives Storage Capacity	DIAKOL STRÁŽSKE, s.r.o.	Building Permit Documentation, Detail Engineering		2006	Slovakia	Chemical Industry
99	Reinstrumentation of K8 Boiler	Honeywell s.r.o., Slovensko	Detail Engineering, Procurement, Turn-key Deliver		2006	Slovakia	Water & Energy Industry
100	Biodiesel Plant	ENERGEA Umwelttechnologie GmbH	Detail Engineering, Supervision		2005	Arfuels, Australia	Chemical Industry







# EXTENSION OF THE TECHNOLOGICAL NODE OF FERMENTATION

Industry  
Location

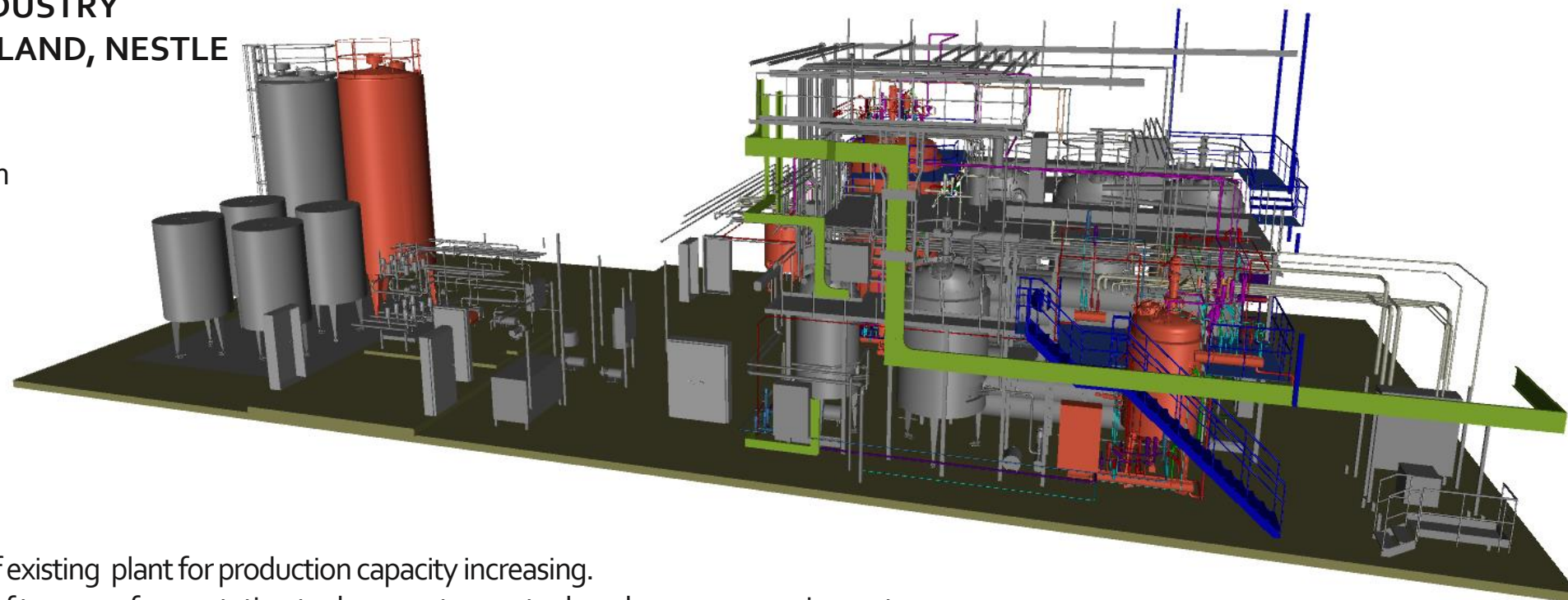
**FOOD INDUSTRY**  
**SWITZERLAND, NESTLE**

Services

Detail design  
3D model

Description

Extension of existing plant for production capacity increasing.  
Installation of two new fermentation tanks, one storage tank and accessory equipment include valve cluster and process piping.



*Key activity: Extension of production*



# ALCOHOL DISTILLATION AND RECTIFICATION

Industry  
Location

**FOOD INDUSTRY**  
**SLOVAKIA, SLL a.s.**

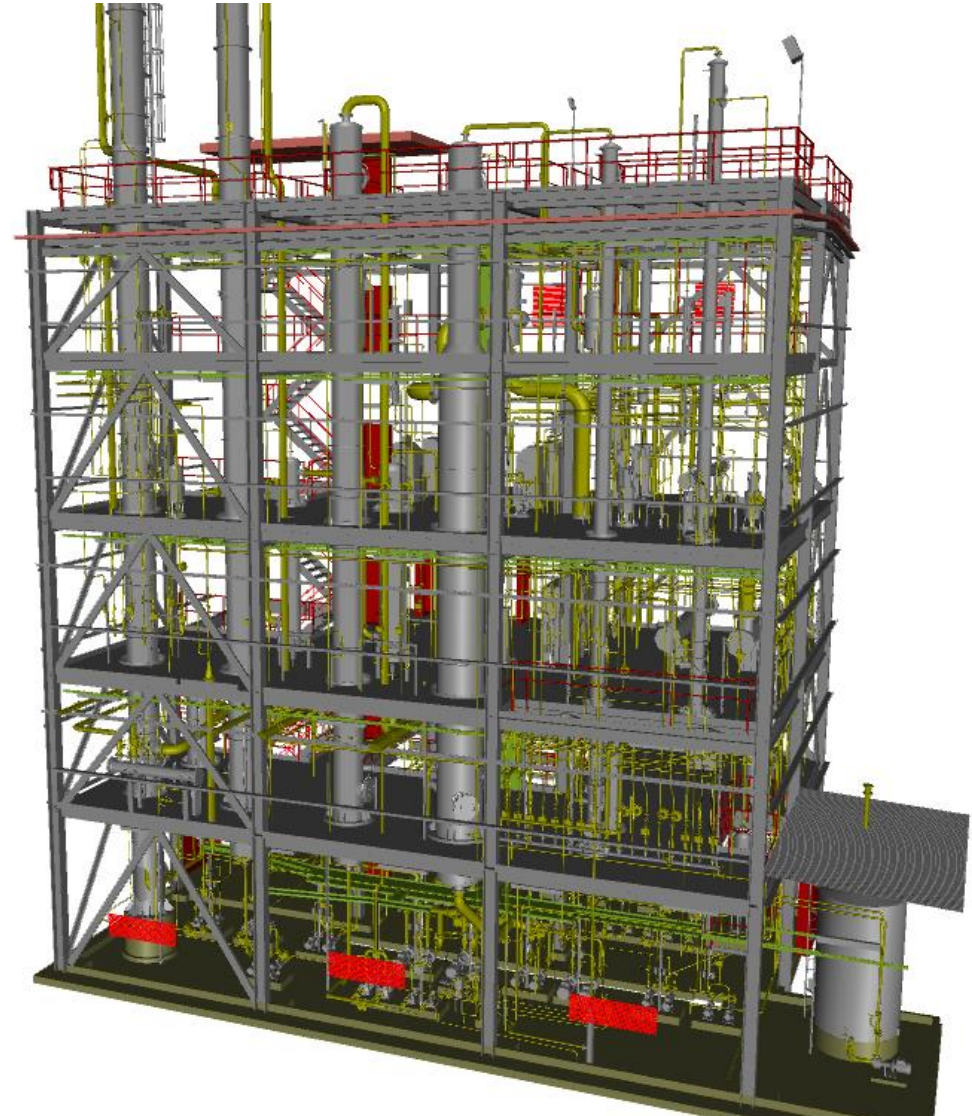
Services

Laser scan  
P&ID  
Detail design project  
As-Built

Description

Modernisation of the distillation and rectification unit in order to improve the qualitative and quantitative parameters of the distillation and rectification unit.

*Key activity: Extension of production*

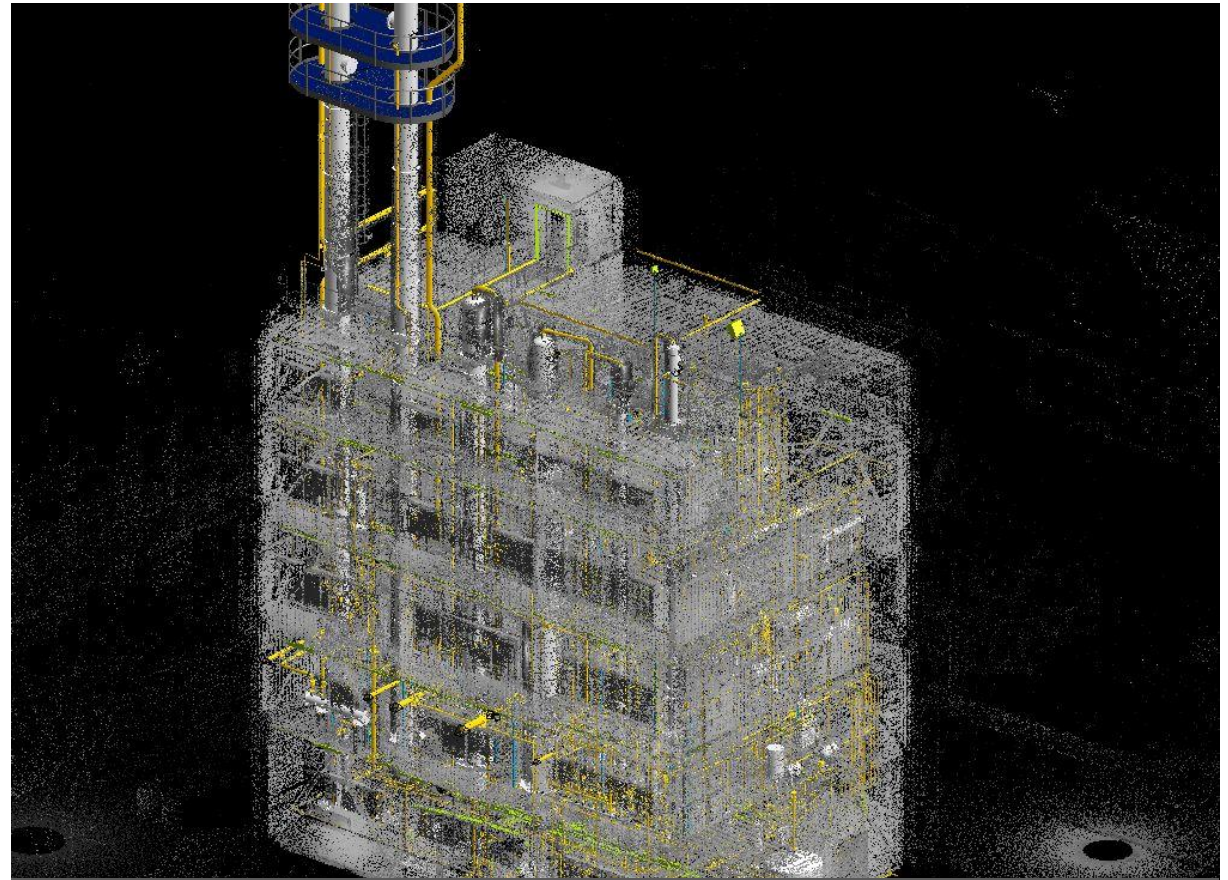




# ALCOHOL DESTILLATION



LASER SCAN - PHOTO



LASER SCAN-MODELING IN POINT CLOUD



# 2G BIOETHANOL PRODUCTION

Industry  
Location

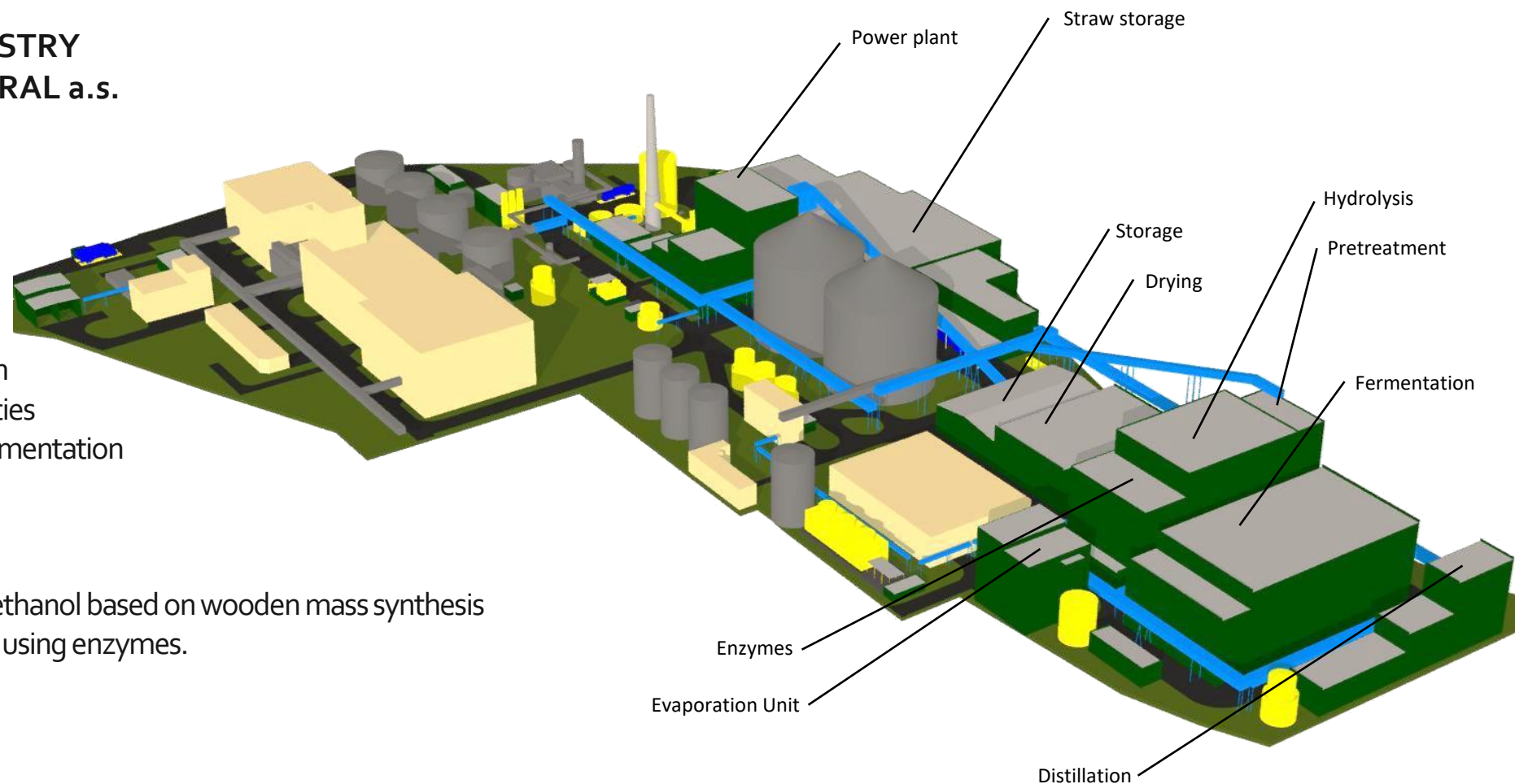
**CHEMICAL INDUSTRY**  
**SLOVAKIA, ENVIRAL a.s.**

Services

IPPC  
HAZOP Study  
Risk Study  
Project for Demolition  
Temporary Site Facilities  
Building Permit Documentation

Description

Production of 2G bioethanol based on wooden mass synthesis into C<sub>5</sub> and C<sub>6</sub> sugars using enzymes.



*Key activity: BUILDING PERMIT*

# BIORAFINERY - BIOETHANOL 2G PRODUCTION – SO<sub>2</sub> – THERMAL PRETREATMENT

Industry  
Location

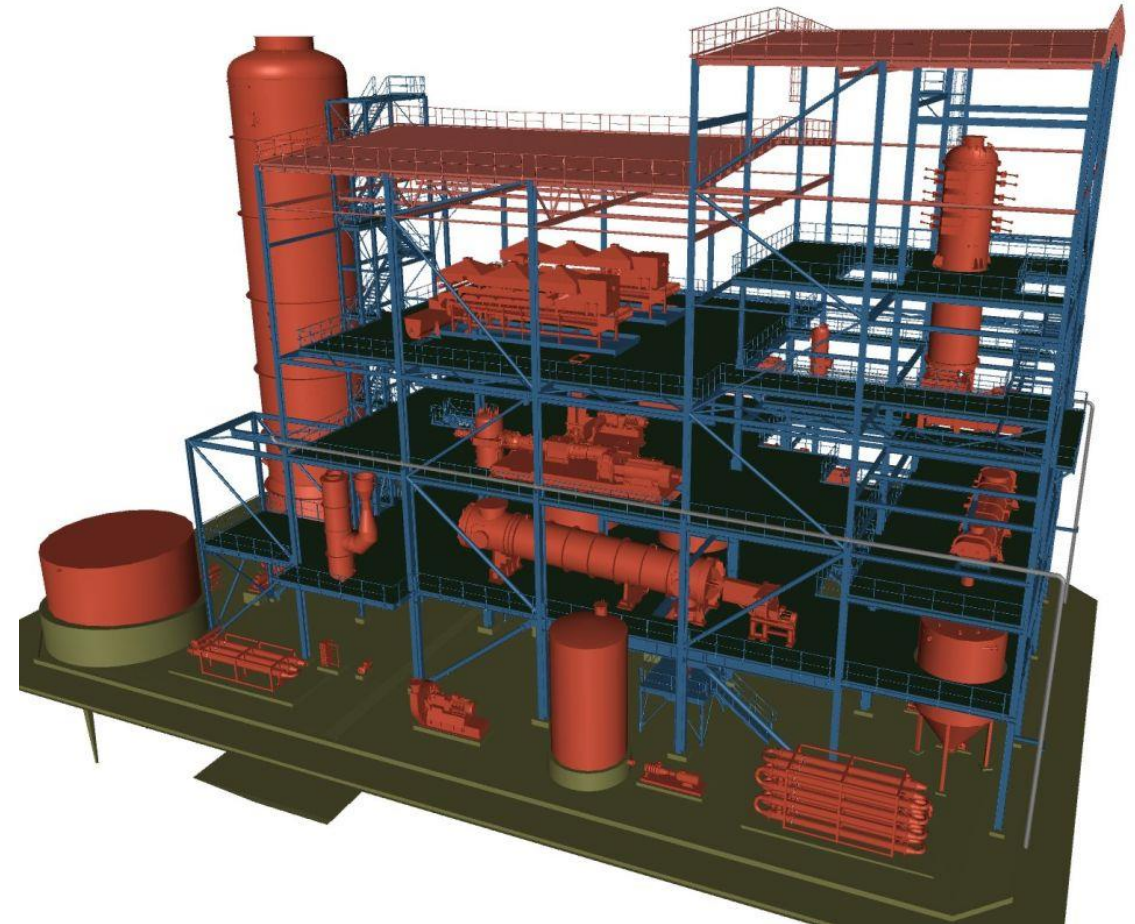
**CHEMICAL INDUSTRY**  
**ENERGOCHEMICA TRADING a.s.**

Services

Building Permit Documentation  
Tender Documentation  
Equipment design and layout  
Detail Engineering – concrete and steel structure  
Steel structure workshop documentation

Description

Biorafinery - thermal pretreatment of biomass unit –  
Equipment layout and steel structure design.



*Key activity: BUILDING PERMIT AND DETAIL DESIGN*



# NEW ENDOCRINE PLANT

Industry  
Client

**Pharmaceutical INDUSTRY**  
**FAVEA Europe, Czech Republic**

Services

Conceptual design  
Building permit documentation

Description

Implementation of four pharmaceutical API production divisions (synthetic base, herba base, animal base ) to existing building.



*Key activity: Complete 3D model and 2D documentation, model coordination*

# NEW ENDOCRINE PLANT

