CAPABILITY PRESENTATION

Engineering for industrial investment and technology scale-up

Industry & Project Engineering s.r.o., Michalovce: multidisciplinary engineering for new plants, upgrades and technology projects, with permitting expertise in Slovakia. Since 2006.



FIG. 01 — CO2 recovery plant, SIAD Slovakia, Leopoldov · process plant designed and supplied abroad; IPE: documentation audit, approval inputs and permitting for trial and permanent operation, 2022–2024. Photo: SIAD Slovakia.

A multidisciplinary engineering company in eastern Slovakia

2006	530+	22	520+	ISO 9001
FOUNDED IN MICHALOVCE	PROJECTS IN OUR REGISTER	COUNTRIES WITH HISTORICAL PROJECT SITES	OFFERS WON SINCE 2007	CERTIFIED SINCE 2007, SGS

What we do

- Process, mechanical and piping, instrumentation and control, electrical, civil and steel engineering, coordinated in one team
- Studies, basic and detail design, permit documentation in Slovakia, tender documents, designer's supervision and as-built records
- 3D laser scanning for work in running plants, with a scanning partner where required
- Based in eastern Slovakia, within an established chemical and industrial region

Credentials

ISO 9001	EN ISO 9001:2015 quality management, SGS, certificate SK07/0134, first certified 2007
R&D	Certified R&D entity, Ministry of Education, Research, Development and Youth SR, no. 2024/18156:2-E1230
SKSI	Permit documents signed by engineers authorised by the Slovak Chamber of Civil Engineers
BIC	Member of the Bio-based Industries Consortium since 2026

What you can engage IPE to do

01 Define an investment

WHEN You buy, extend or relocate a plant and must decide before committing capital.

YOU RECEIVE Document and site due diligence, options and feasibility, CAPEX/OPEX estimates, the Slovak permit route.

EVIDENCE: CORDEN BIOCHEM AUDIT AND SCAN, 2025 (CONVERSION ONGOING) · TSR SLOVAKIA, 2010–2011

02 Engineer an upgrade

WHEN A running plant needs new equipment, a new process step or a permit change.

YOU RECEIVE Survey or laser scan, tie-ins, multidisciplinary detail design, permit changes, as-built records.

EVIDENCE: U. S. STEEL KOŠICE: LINE EC2 ACCEPTED 2017, LINE EC1 ACCEPTED 2024

03 Deliver an engineering package

WHEN A lead contractor or licensor needs a defined package or discipline in its own system.

YOU RECEIVE A package to the lead company's standards and document system, as agreed in the proposal.

EVIDENCE: TECHNICAD (CH) FOR NESTLÉ, KONOLFINGEN, 2020–2021 · ENERGYCO FOR CORUS, IJMUIDEN, 2007–2008

04 Engineer a pilot or modular unit

WHEN A research or pilot result must become engineered equipment.

YOU RECEIVE Design basis, modular and containerised design, integration, agreed supervision of production and testing.

EVIDENCE: ENERGEA, 8 MODULES, 2006 · ROKOSAN, 2012–2018 · CO2-THERMOS (PROPOSED; GRANT AGREEMENT IN PREPARATION)

DELIVERABLES MAP

What you receive at each decision

01
Assess

YOUR DECISION

Buy, keep, convert or relocate?

IPE DELIVERS

Document audit, site survey or laser scan, technical due diligence

02
Define

YOUR DECISION

Which option, which budget?

IPE DELIVERS

Studies and variants, CAPEX/OPEX estimates, basic engineering: PFD, P&IDs, layouts

03
Permit

YOUR DECISION

Permits and decisions (issued by the authorities)

IPE DELIVERS

EIA notification, permit documentation, IPPC change, SEVESO inputs, representation as agreed

04
Design

YOUR DECISION

Release for construction

IPE DELIVERS

Detail design in all disciplines, 3D model, isometrics, stress analysis

05
Procure and build

YOUR DECISION

Award contracts; trial operation

IPE DELIVERS

Tender documents, bid comparison, designer's supervision, trial-operation documents

06
Hand over

YOUR DECISION

Acceptance

IPE DELIVERS

As-built drawings and models, manuals, final documentation

SCOPE BOUNDARY

Process technology and process guarantees stay with the licensor or technology provider; construction and supply with the contractors. IPE's delivery boundary for each project is written into its proposal; stages can be ordered one at a time.

Phases recorded on seven references

REFERENCE	SURVEY	STUDY	BASIC	PERMITS	DETAIL	TENDER & SITE	AS-BUILT
Ethanol plant conversion Corden BioChem, Podari (RO) · 2025–2026	■	□	■	□	■	□	□
Glue plant extension, loading station Kronospan, Lampertswalde (DE) · 2024	□	■	■	■	□	□	□
Chromium-free passivation, line EC1 U. S. Steel Košice · 2021–2024	■	□	■	■	■	■	□
New pharmaceutical plant FAVEA Europe (CZ), Počep (RU) · 2020–2021	□	■	□	■	■	■	□
Bio-polymer expansion ECOPOL II Nexis Fibers, Humenné · 2014–2021	■	□	□	■	■	□	■
Beverage-can plant and second line CROWN Bevcan, Kechnec · 2008–2012	■	□	□	■	■	■	■
Serpentinite mining and processing Silicon, Dobšiná · 2006–2014	□	■	■	■	■	□	□

■ Phase recorded in IPE's scope for this reference in the reference list.

□ Not recorded in the reference list: not in IPE's scope, not documented, or not applicable. The list does not distinguish these, so an open square does not mean the stage did not happen.

PROJECT CASE · ACQUIRED ASSET, BROWNFIELD CONVERSION

Corden BioChem: engineering the conversion of an acquired ethanol plant

CLIENT SITUATION

Corden BioChem acquired the former second-generation ethanol plant at Podari, Romania, to convert it to ethanol from molasses, reusing existing tanks, racks and buildings where possible.

IPE ASSIGNMENT

Audit of the available documents, coordination of the laser scan, revised PFDs and P&IDs, and detail-engineering packages designed in AVEVA E3D on the point cloud.

ENGINEERING CHALLENGE

New pumps, piping and steel had to fit between existing equipment, with tie-ins and clearances checked against the scan.

DOCUMENTED MILESTONE

Package 5 – pipe bridges and a 50 m loading platform with 104 t of steelwork – issued for construction on 3 July 2026.

STATUS AND RELEVANCE

Conversion engineering ongoing; stated production target about 140,000 litres a day, not an achieved output. For investors converting an acquired plant.

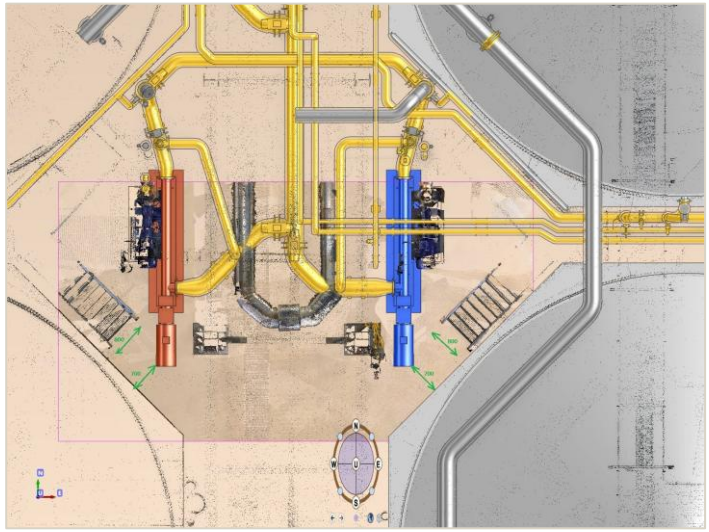


FIG. 02 – New pumps and piping (IPE design) on the laser scan of the existing tank farm, 2025

PROJECT NO.	CBR-25-530 · CBR-25-536
CLIENT	Corden BioChem Romania
PLANT LOCATION	Podari, Romania
PERIOD	2025–2026, ongoing
SCOPE	Audit, scan, PFD/P&ID, detail design
MILESTONE	Package 5 issued for construction 3 July 2026

U. S. Steel Košice: chromium-free passivation on two tinning lines

CLIENT SITUATION

U. S. Steel Košice replaced hexavalent chromium in tinplate passivation with a chromium-free chemistry on two running tinning lines; process, equipment, building and the integrated permit were affected.

LINE EC2 · 2015–2017

Basic engineering, EIA notification and IPPC change, building-permit, detail and workshop design, manuals, as-built documents and designer's supervision. Final acceptance protocol signed 11 April 2017.

LINE EC1 · 2021–2024

The same method with a laser scan and Navisworks coordination: basic engineering, building-permit documentation with the IPPC change, tender documents, detail and workshop design. Final acceptance protocol 31 October 2024.

SCOPE NOTE AND RELEVANCE

Passivation chemistry from its supplier; IPE responsible for its engineering packages, not for process performance. For owners changing a process step under an integrated permit.

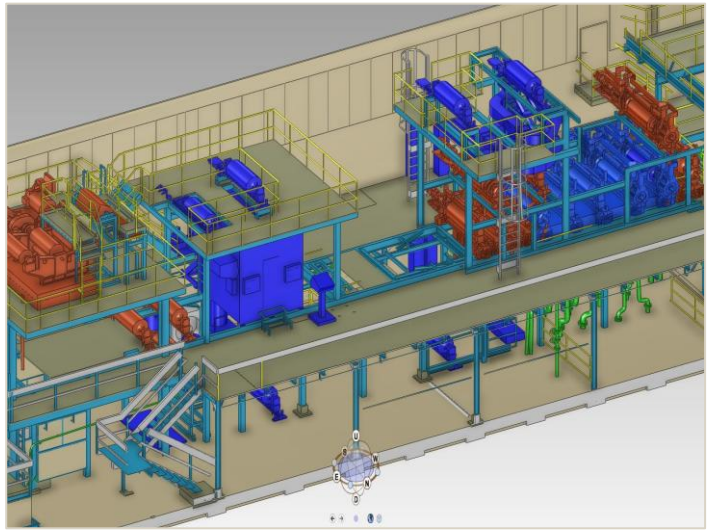


FIG. 03 – Tinning line EC1 with the new passivation equipment · IPE 3D model, 2021–2024

PROJECT NO.	USS-15-272 · USS-21-429 · USS-24-485
CLIENT	U. S. Steel Košice, s.r.o.
PLANT LOCATION	Košice, Slovakia
LINE EC2	2015–2017 · accepted 11 April 2017
LINE EC1	2021–2024 · accepted 31 October 2024
DISCIPLINES	Process, piping, steel, E&I, civil

PROJECT CASE · LOCAL ENGINEERING AROUND A FOREIGN PROCESS PLANT

SIAD Slovakia: Slovak engineering and permits for a CO2 plant designed abroad

CLIENT SITUATION

SIAD built a plant at the ENVIRAL bioethanol site in Leopoldov that recovers fermentation CO2 and liquefies it to food grade. It was designed and supplied abroad; its design had to be approved under Slovak rules and its operation permitted.

IPE ASSIGNMENT, FROM NOVEMBER 2022

Documentation audit, approval package for TÜV SÜD, engineering for trial and then permanent operation, operating documents and emergency plan; NOx filter engineering (2024).

DOCUMENTED APPROVALS

Acting for SIAD, IPE obtained temporary use for trial operation on 4 August 2023 and air-protection consent for permanent operation on 30 January 2024.

SCOPE NOTE AND RELEVANCE

For foreign suppliers and investors who need Slovak engineering and permits.



FIG. 04 — SIAD CO2 plant, Leopoldov · designed and supplied abroad. Photo: SIAD Slovakia.

PROJECT NO.	SD-22-460 · SD-23-465
CLIENT	SIAD Slovakia spol. s r.o.
PLANT LOCATION	Leopoldov, Slovakia
PERIOD	2022–2024
PLANT DATA	5,000 kg/h liquid CO2, max 40,000 t/y
IPE ROLE	Audit, approval inputs, permits

Calcium nitrate (LAV) unit, Hnojivá Duslo, Strážske

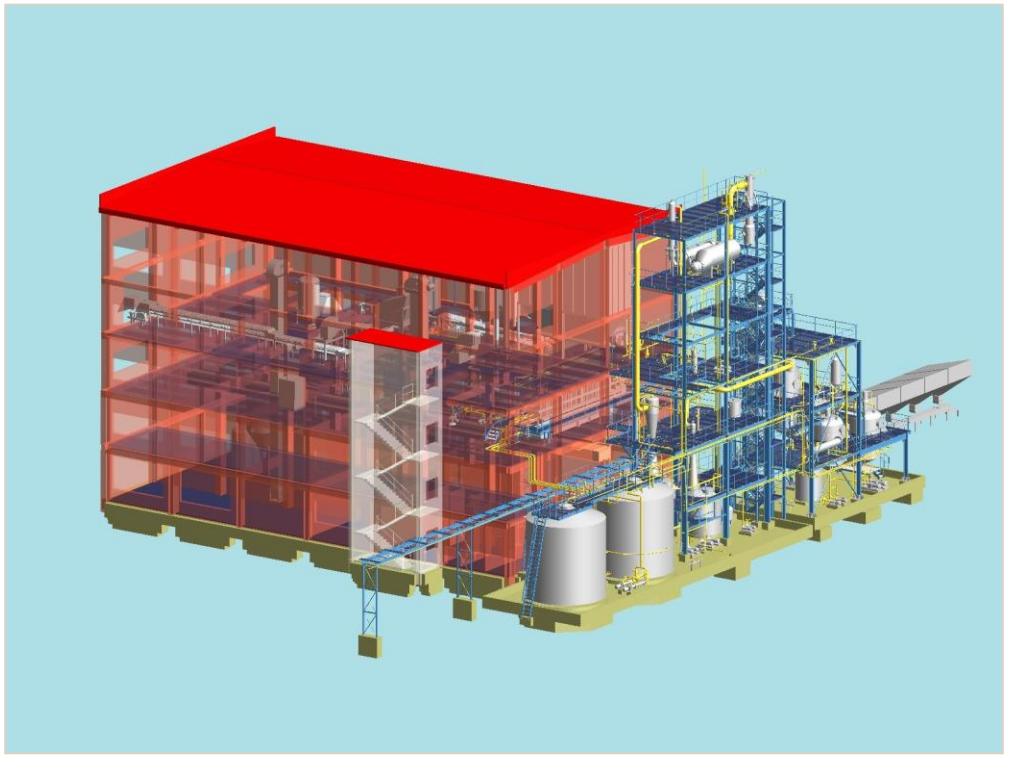


FIG. 05 — IPE MODEL: PDMS model of the revamped unit by IPE, 2007–2008



FIG. 06 — BUILT ASSET: the same unit on site, 2008 (photo); construction by others

IPE assignment, 2007–2009: building-permit design, detail design from one PDMS model, permits, tender documents, designer's supervision and as-built documents. The design covered 140 pipelines, 308 valves and 100 equipment items.

Gas carriers for Grontmij | Carl Bro, Denmark, 2007–2008

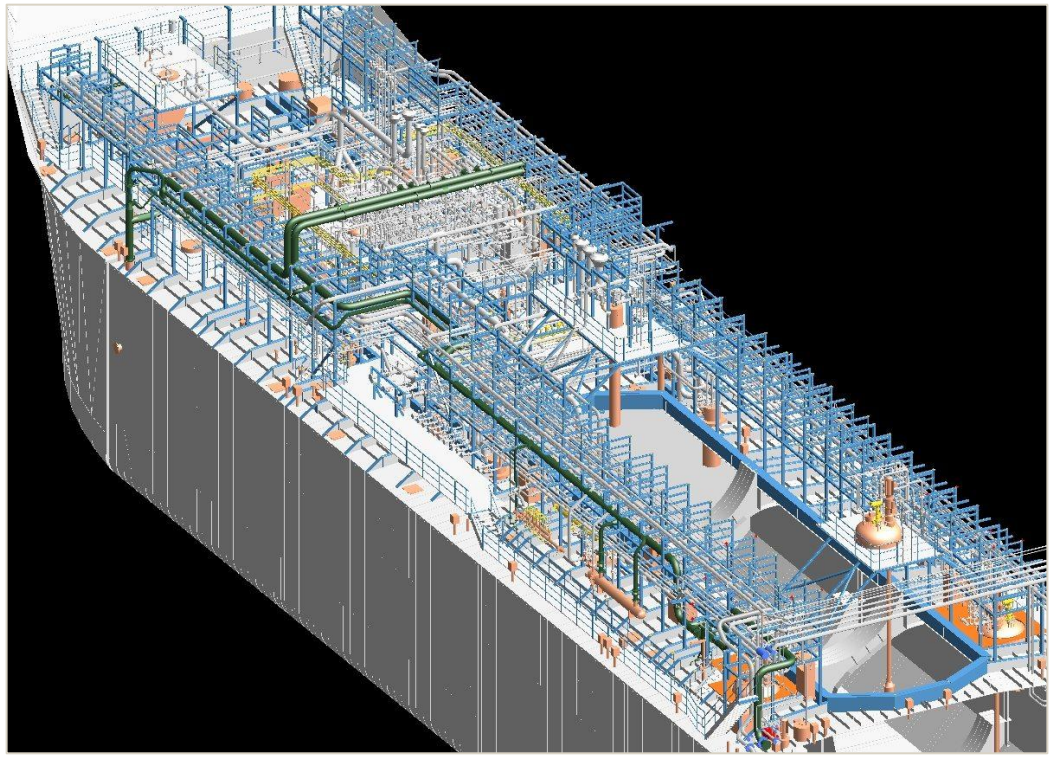


FIG. 07 — IPE MODEL: deck of the Wintergas LPG carrier in PDMS, seawater-cooling system highlighted, 2007

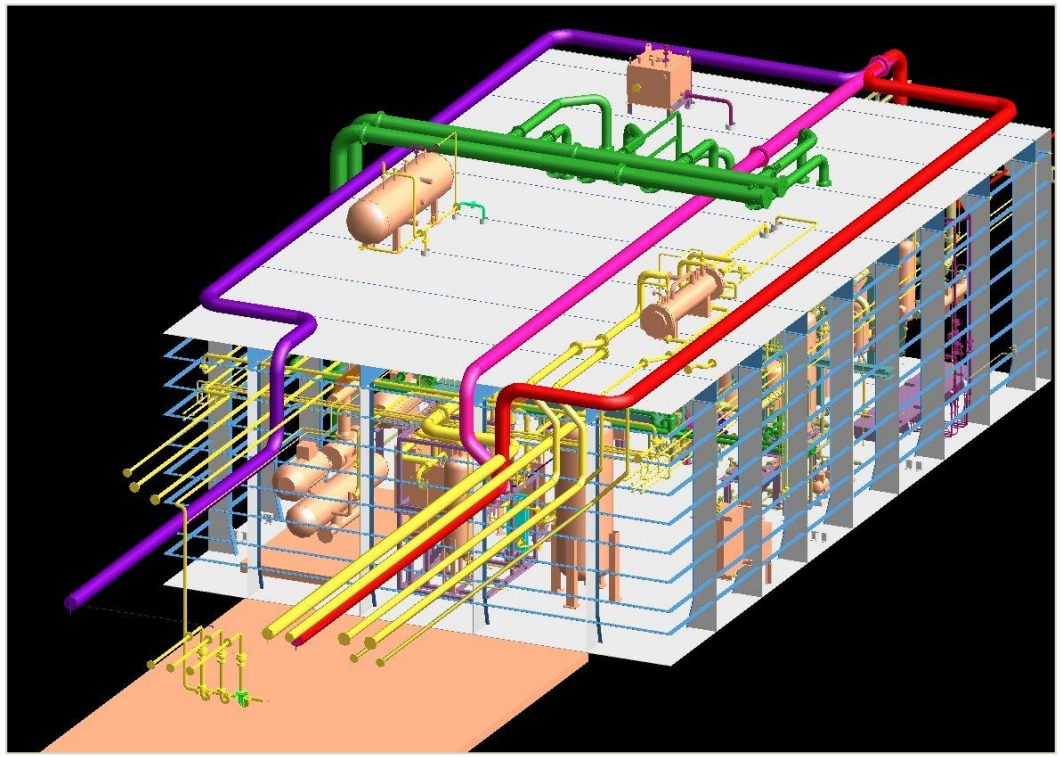


FIG. 08 — IPE MODEL: compressor-house module of the Multigas LNG/LPG carrier in PDMS, 2008

IPE assignment as design subcontractor to the Danish engineering firm: detail design of steel structures and piping in PDMS – deck piping systems, penetrations and cable routes for the Wintergas carrier; cooling-station and compressor-house modules for the Multigas carrier, built off-site and lifted on board.

ENERGEA: a biodiesel plant in eight modules, 2006

CLIENT SITUATION

The Austrian technology company ENERGEA Umwelttechnologie supplied a biodiesel plant in eight modules, each carrying one production step, for assembly in Australia.

IPE ASSIGNMENT

3D detail design of the steel structures and mechanical parts, integration of the process equipment into the modules, supervision of module production, testing and shipment. Carried out in close cooperation with Noving.

STATUS

Historical example, 2006. The process technology was ENERGEA's.

RELEVANCE TODAY

The same method – module split, frames, integration, supervised factory testing – applies to pilot, demonstration and containerised units.

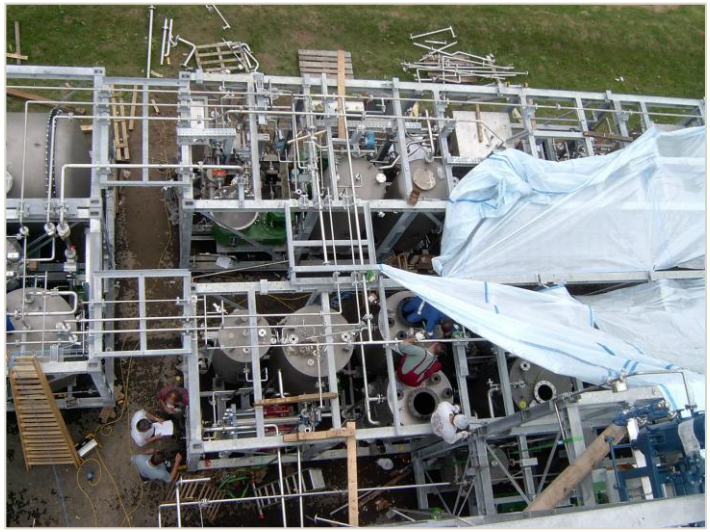


FIG. 09 – ENERGEA biodiesel plant modules during assembly, before shipment to Australia, 2006

PROJECT NO.	ENERGEA 2006
CLIENT	ENERGEA Umwelttechnologie GmbH (AT)
DESTINATION	Australia
YEAR	2006
KEY FIGURE	8 process modules

Cyclohexanone plant, Strážske: dismantling documented for relocation

CLIENT SITUATION

The cyclohexanone plant at Strážske (built 1982, shut down 2003) was bought by OAO Ščekinoazot for re-erection. It had to be taken apart safely on an operating chemical site, with every item documented.

IPE ASSIGNMENT

Permits for site preparation and both dismantling phases, the dismantling method and the cutting planes of the columns, a PDMS model, P&IDs and isometrics for re-erection, site supervision and H&S coordination.

DATES

2008–2009.

RELEVANCE

For buyers and sellers of plants to be relocated or cleared.



FIG. 10 – Cyclohexanone plant at Strážske during dismantling, 2009

PROJECT NO.	ST-08-056
CONTRACTING PARTY	OAO Ščekinoazot (Russia)
PLANT LOCATION	Strážske, Slovakia
PERIOD	2008–2009
PLANT	80,000 t/y cyclohexanone
DOCUMENTED	1,161 pipelines · 2,045 valves

Formaldehyde and resin plants: studies, design and site work

YEARS	CLIENT / CONTRACTING PARTY	PLANT LOCATION	ASSIGNMENT	IPE SCOPE TYPE
2006–2026	DIAKOL Strážske	Strážske, SK	Formaldehyde reaction section, 53 % formaldehyde storage, glue-production extension, steam boiler (2026)	**Design, permits**
2017–2022	DUKOL Ostrava	Ostrava, CZ	Formaldehyde plant 1, glue-production expansion, melamine store, steam turbine; laser scan	**Design, permits, procurement, as-built**
2024	Kronospan GmbH	Lampertswalde, DE	Glue-plant extension and combined loading station	**Studies, P&IDs, permit documents**
2021	Kronospan Bulgaria	Veliko Tarnovo, BG	Glue plant with formalin unit, 120,000 t/y	**Study only**
2021–2022	Contiplus Limited (MT); Xylo Engineering CZ	Kaluga and Ufa, RU	Resin and glue plants: P&IDs, mechanical and civil detail design	**Design**

Five assignments, three kinds of scope: a study is not a design, and a design is not a built plant. The rows are separate assignments with their own contracting parties; the plant location is shown separately from the contracting party.

Slovak permits: historical routes and outcomes

PROJECT	ROUTE FOLLOWED (HISTORICAL)	OUTCOME / STATUS
TSR Slovakia Scrap yard with rail siding · 2010–2011	EIA screening; zoning decision 20 July 2010; railway-siding permit 7 September 2010; building permit 14 September 2010; occupancy 8 August 2011. IPE as investor's representative.	Built; occupancy approved 13 months after the zoning decision
Biochemtex (IT) 81 MWth energy block · 2015	Zoning decision for the energy block (August 2015); building permits for site-preparation works; building-permit design, SEVESO risk study and IPPC application prepared.	Not built: the investor changed its plans
CROWN Bevcan Slovakia Beverage-can plant · 2008–2012	Building permit with English translation, IPPC documentation, second line, as-built documents.	Built
Schur Flexibles / adapa Printing plant, Trebišov · 2021–2026	Combined IPPC change and building permit 24 October 2022; IPPC and trial operation of the next upgrade (2026).	Permit issued 2022; 2026 upgrade in progress
Duslo Own boiler house 13.1 MW · 2022	EIA notification, IPPC change, building-permit design.	IPE scope ended with the permit design

Since 1 April 2025 new projects follow Slovakia's new Building Act, with new procedures and terms. The route for each project depends on its type and on transitional provisions; the routes above are historical, not a template or a promised duration.

Engineering for pilot and demonstration units

CO2-THERMOS · Horizon Europe

Lump-sum research and innovation action on CO2 capture, purification and use (topic HORIZON-CL4-2026-01-MAT-PROD-31), coordinated by Imperial College London; 13 partners from 8 countries, 42 months planned. Grant agreement in preparation.

Evaluation Summary Report: 15.00 / 15 – excellence 5.00, impact 5.00, implementation 5.00 (threshold 10).

Requested EU grant: EUR 6,970,797 for the consortium; IPE EUR 676,497.50 (9.7 %). Final amounts are set in the grant agreement.

IPE is a consortium partner. Its proposed role: design and build the CO2 capture unit and the CO/CO2 separation unit for the integrated prototype at CERTH, Greece – delivering these units, validating the capture and purification train and commissioning the separation unit.

Credentials

- Certified R&D entity, Ministry of Education, Research, Development and Youth SR, no. 2024/18156:2-E1230 (2024)
- Member of the Bio-based Industries Consortium since 2026
- EU participant identification code (PIC) 873562601

What IPE offers research consortia

- Design basis and process engineering for pilot units
- Mechanical, piping, E&I and civil design of pilot, demonstration and modular units
- Integration, safety inputs and cost estimates
- Procurement and build support, as agreed in the consortium

CO2-THERMOS consortium · 13 partners, 8 countries

Imperial College London (UK) · coordinator	RPOW Consulting (ES)
DAY ONE (IT)	Membrasenz (CH)
EPFL (CH)	Technische Universität Berlin (DE)
ETH Zürich (CH)	CERTH (EL)
Johnson Matthey (UK)	Dioxycle (FR)
Lomartov (ES)	**Industry & Project Engineering (SK)**
Solar Flow (UK)	

Russian-language documentation and agreed local codes

Where a contract requires it, IPE prepares documentation in Russian and adapts the design to the local codes agreed with the client, such as GOST, SNiP or DSTU.

Offered for plants in Central Asia, the Caucasus, Moldova and Ukraine where Russian is a working language or GOST-derived codes still apply; the applicable code is checked for each project and location.

YEARS	CONTRACTING PARTY (COUNTRY)	PLANT LOCATION	WORK
2012–2013	UNIGAS EUROPE, s.r.o.	Anopino, RU	Gas regulator station: building permit and detail design, documentation in Russian to GOST and SNiP
2010–2013	OAO Ščekinoazot (RU)	Ščekino, RU	Formalin plant revamp: conceptual and basic design in Russian, supervision, start-up (2013)
2010–2011	IFC – World Bank Group (US)	Novokuibyshevsk, RU	Resource-efficiency consultancy for a petrochemical plant; summary report in Russian
2013	OSTCHEM, Azot Cherkasy (UA)	Cherkasy, UA	Basic designs in Russian: scrubber and flue-gas cleaning
2021–2022	Contiplus Limited (MT); Xylo Engineering CZ	Kaluga and Ufa, RU	Resin and glue plants: P&IDs, mechanical and civil detail design

Project dates as recorded; contracting party and plant location are shown as separate fields. Working languages: Slovak, Czech, English and Russian.

Examples of engineering package scale

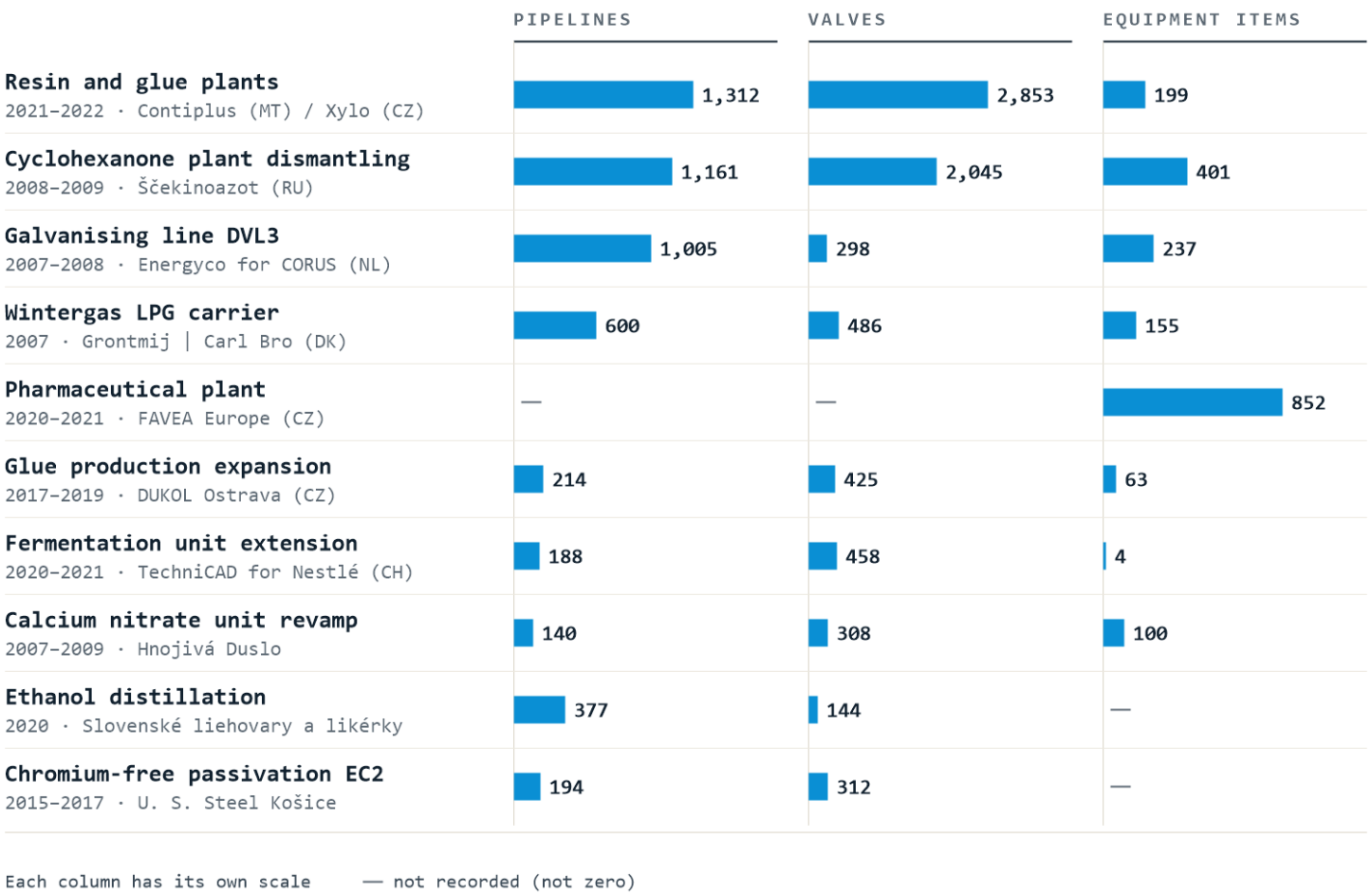


FIG. 11 — Pipelines, valves and equipment items recorded in ten delivered design packages. Each column has its own scale, so bars are comparable only within a column; a dash means not recorded, not zero. The counts describe past packages, not current capacity.

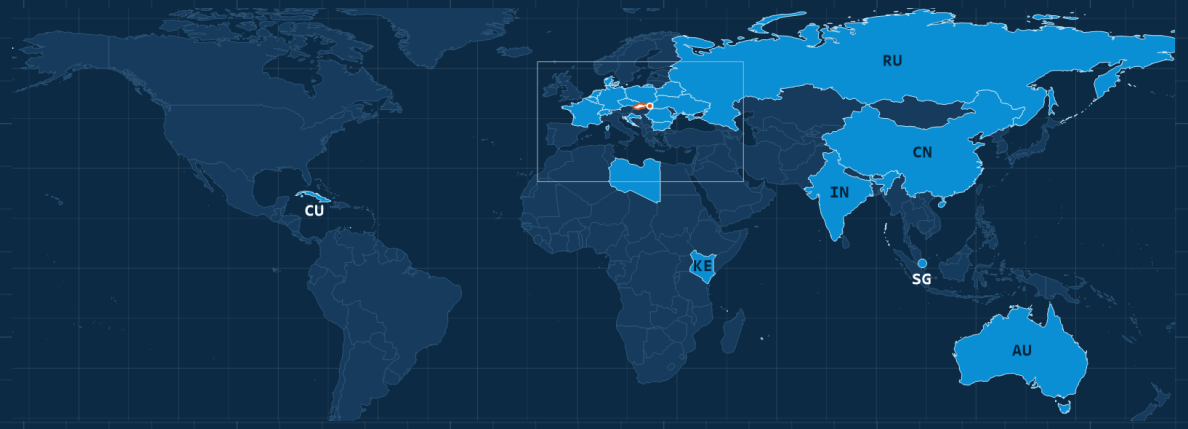
Sectors and the engineering problems we meet in them

SECTOR	TYPICAL ENGINEERING PROBLEM	EXAMPLES OF CLIENTS
Chemicals and fertilisers	Revamps and capacity changes in running units; storage and loading	Duslo · DIAKOL · DUKOL · Chemko
Biotech and bio-based	Fermentation, distillation, CO2 recovery; conversion of existing plants	ENVIRAL · SIAD · Corden BioChem · SLL
Metallurgy	Coating and passivation lines, coke-oven gas, ferroalloys	U. S. Steel Košice · Energyco for Corus · OFZ
Energy and utilities	Boiler houses, CHP, power-plant systems, fire water	Slovenské elektrárne · ENVIRAL · SWS
Explosive chemistry	Siting, safety distances, hazardous areas, SEVESO documents	ZVS holding
Defence	Production lines and permits for defence manufacturers	Clients not named
Pulp, paper and packaging	Pulp-mill gas treatment, printing and can plants, permits	BUKOCEL · Schur Flexibles / adapa · CROWN

PROJECT GEOGRAPHY

Historical project sites in 22 countries since 2006





THREE EXAMPLES

RO · 2025–2026	Corden BioChem, Podari: conversion engineering, ongoing
NL · 2007–2008	Energyco for Corus, IJmuiden: galvanising-line detail design
LY · 2006–2008	Sea-water RO plant, Tajoura: survey and 3D reverse engineering

SK · CZ · PL · DE · FR · CH · NL · BE · DK · HR · RO · BG · UA · RU · BY · LY · KE · CU · IN · CN · SG · AU

Countries where IPE projects were sited since 2006. Cyan = historical project sites; white = Michalovce. Natural Earth 1:50m.

Ten clients: first and latest recorded project years

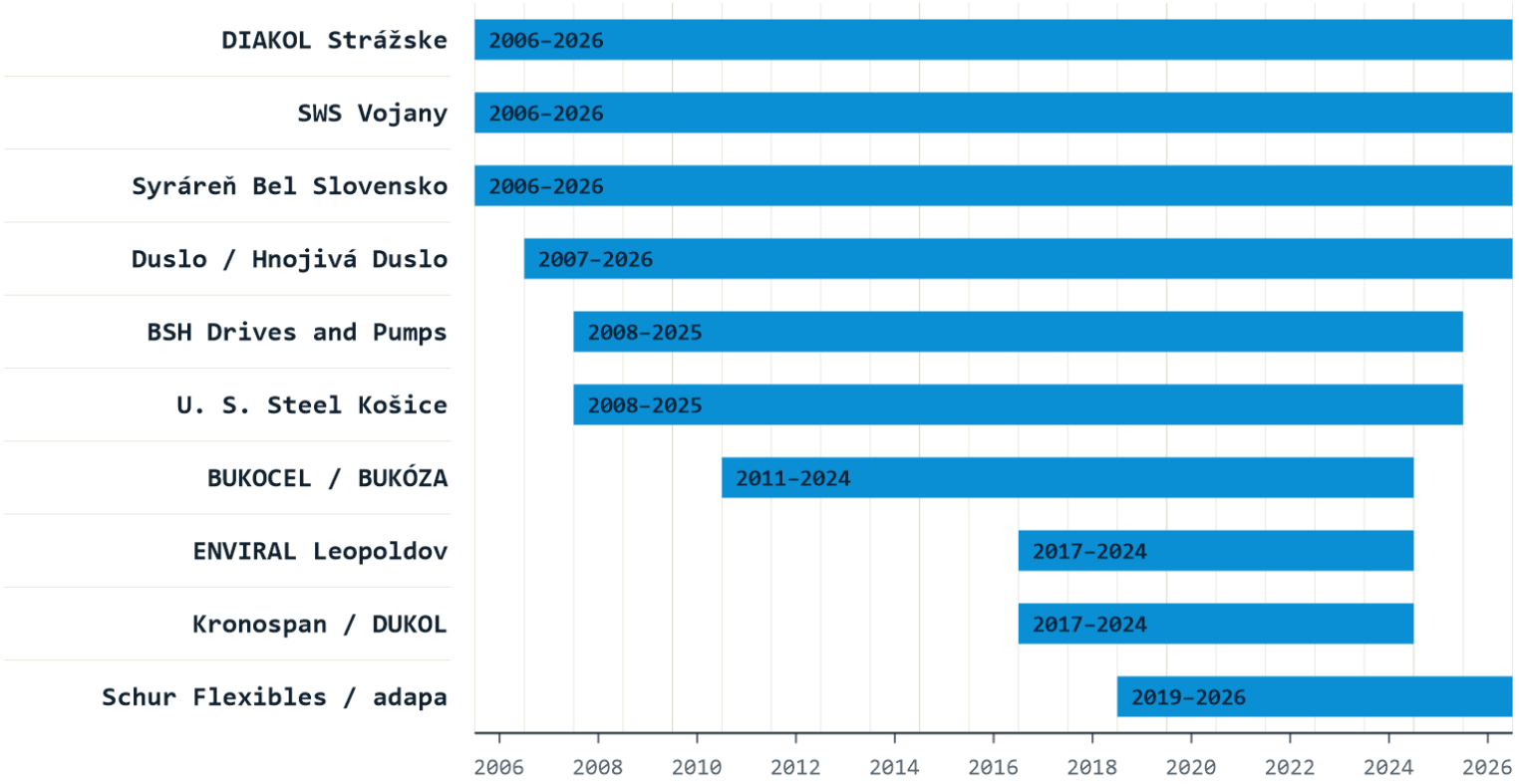


FIG. 12 — First and latest recorded project years in IPE's project register, including work delivered through other engineering firms. A bar spans the period between two recorded projects; it does not mean continuous work in every year. Not every year appears in the selected reference list.

Discuss your project

Share the asset or package brief: location, planned change, stage, available information and target dates. We arrange a scope discussion and propose the scope, deliverables, schedule and commercial basis in writing.

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SHAREHOLDERS

Slovakia Technology Investments a.s. (51 %), TECHNIS, s.r.o. (49 %)

WORKING LANGUAGES

Slovak, Czech, English, Russian

APPENDIX

Appendix – reference list

- A1 · Lifecycle matrix of ten references (sheet 23)
- A2 · Reference list: 173 selected references since 2006 (sheets 24–35)

Each reference gives the year or period, client, project, plant location, IPE's scope and, where recorded, the size of the package. Defence clients are not named. Unless marked, a row is a design assignment and does not state whether the plant was built; work dated 2026 may still be in progress.

Searchable reference list: www.ipe.sk

Phases recorded on ten references

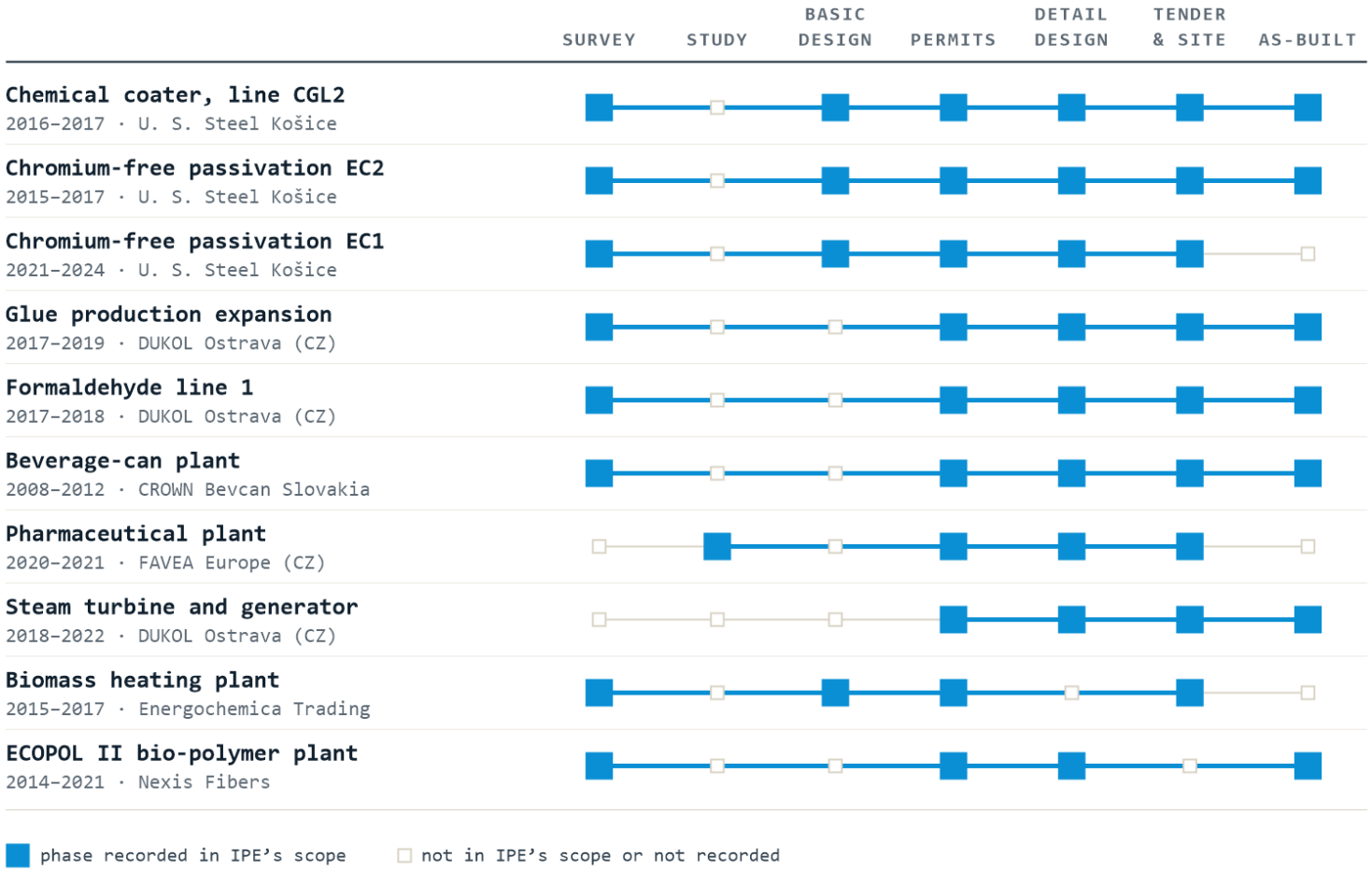


FIG. 13 — Filled square = phase recorded in IPE's scope in the reference list. Open square = not recorded: not in IPE's scope, not documented or not applicable (the list does not distinguish these). Phases assigned by keyword rules from the scope column.

173 selected references since 2006

Unless marked, a row is a design assignment and does not state whether the plant was built; work dated 2026 may be ongoing.

YEAR	CLIENT	PROJECT	LOCATION	SCOPE	SIZE
2026	adapa Slovakia Trebišov	Plant upgrade with new lines and a regenerative thermal oxidiser: IPPC and trial operation (ongoing)	Trebišov, SK	Permitting, technical-equipment documents, trial operation	
2026	DIAKOL Strážske	Replacement of the steam boiler	Strážske, SK	Detail design, structural assessment	
2026	Duslo	Heat exchanger for nitrous-gas preheating; ammonia gas piping, KD2 plant	Strážske, SK	Detail design	
2026	BASCH Systems	Control system of the off-gas incinerator, DIAKOL	Strážske, SK	Detail design	
2025–2026	Corden BioChem Romania	Engineering for the conversion of a second-generation ethanol plant to first-generation ethanol from molasses (ongoing)	Podari, RO	Audit, laser scan, PFD, P&ID, mechanical detail design	
2025	ZVS holding	Siting study for nitroglycerine and ammonium perchlorate production	Strážske, SK	Study	
2025	Confidential – defence manufacturer	Production lines (quenching and annealing) and staff facilities	Slovakia	Building intention, permit project, implementation design	
2024–2025	Confidential – defence production site	Engineering advisory: 3D model of the site, structural assessment of pipe bridges, ammonia risk assessment, study of gatehouse and buildings	Slovakia	Advisory, 3D model, structural assessment, risk assessment, study	
2025	Interagros	Liquid fertiliser store, stage II – mixing	Bánovce nad Ondavou, SK	Building permit, detail design	
2025	ROTAN	Fire-extinguishing system of a tank farm	Dresden, DE	Pipe modelling for hydraulic calculation	pipes: 70
2025	AMT Servis for U. S. Steel Košice	Energy metering on 6 kV and 0.4 kV feeders	Košice, SK	Detail design	
2025–2026	1. Deliace centrum	Extension of production and storage halls	Strážske, SK	Zoning permit, building permit, detail design	
2025	SWS	Bottom loading of light products	Vojany, SK	Detail design	
2024–2025	CASSPOS (ZEST plant)	Electric heating of a mineral-oil storage tank (Ø 2,750 mm) and its piping	Michalovce, SK	Detail design	
2023–2026	Silometal	Mixing bins and conveyor tower: structural and seismic calculations; service platforms and conveyors	Arudy, FR; Varaždín, HR; Dillingen, DE; Lozorno, SK	Structural design	

173 selected references since 2006

Unless marked, a row is a design assignment and does not state whether the plant was built; work dated 2026 may be ongoing.

YEAR	CLIENT	PROJECT	LOCATION	SCOPE	SIZE
2024	Kronospan GmbH	Extension of the glue plant; combined loading station	Lampertswalde, DE	P&IDs, building-permit documentation, studies	
2024	Duslo	Reconstruction of medium- and low-voltage overhead cable routes	Šaľa, SK	Detail design	
2024	ENVIRAL	More efficient CIP cleaning	Leopoldov, SK	Detail design, 3D model, as-built	
2024	MEROCO	Lecithin loading; filtration of FAME (biodiesel) shipping tanks	Leopoldov, SK	Detail design, as-built	
2023	Duslo	Renewal of earthing and lightning protection, Urea 3 plant	Šaľa, SK	Detail design	
2023	Sladovňa Michalovce	160-bar high-pressure water system for the malting plant; winch steel structure; service platform	Michalovce, SK	Detail design	
2023–2024	LUMIZA	Installation of pump P01 in circulating-water station 4216	Strážske, SK	Detail design	
2022–2024	SIAD Slovakia	CO2 recovery plant: audit, engineering for trial and permanent operation, emergency plan, NOx filter	Leopoldov, SK	Audit, engineering, approval documents; temporary-use permit for trial operation (2023) and air-protection consent for permanent operation (2024) obtained for SIAD	documented: 97 equipment items, 130 pipelines
2022–2026	Unomedical	Medical-device plant: explosion-hazard assessment of an adhesive mixer; hazardous-area protocols for production halls, granulation room, sprinkler machine room and store; electrical equipment	Michalovce, SK	Hazardous-area classification, explosion-risk assessment, detail design	orders: 11
2022–2023	Duslo	Round store B reconstruction; building repairs of the LV plant; conveyor link between the calcium-nitrate and bagging plants; filters on the liquid-ammonia line, KD2	Strážske, SK	Detail design, external-influence protocol	
2022	SWS	Transloading of products from standard-gauge into broad-gauge rail tank cars	Vojany, SK	Detail design (mechanical, piping, I&C, power), cost estimate, as-built	
2022	DIAKOL Strážske	Formalin adjustment tanks, storage and cooling; raw-water pump station and gas connection	Strážske, SK	Detail design, feasibility studies	
2021–2024	U. S. Steel Košice	Chromium-free passivation, tinning line EC1	Košice, SK	Laser scan, P&ID, basic design, building permit, dismantling, detail and workshop design, supervision	pipes: 186; valves: 285

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YEAR	CLIENT	PROJECT	LOCATION	SCOPE	SIZE
2023	ENVIRAL	Extension of the CHP plant VUKVET (20 t/h boiler, 1.9 MWe turbine)	Leopoldov, SK	Conceptual study, building permit, tie-in design	
2023	SWS	Own boiler house	Vojany, SK	Building-permit design	
2023–2024	Sladovňa Michalovce; Fiberstruct	Roof checks for photovoltaic plants	Michalovce, Strážske, SK	Structural assessments	
2022	Duslo	Energy self-sufficiency of the Strážske plant: boiler house 13.1 MW	Strážske, SK	EIA notification, IPPC, building-permit design	
2022	BUKOCEL	Biogas combustion	Hencovce, SK	Building-permit design	
2022	Schur Flexibles Moneta	Replacement of natural gas by an alternative energy source	Trebišov, SK	Feasibility study	
2021–2022	Contiplus Limited (MT); Xylo Engineering CZ	Resin and glue plants (binding materials)	Kaluga and Ufa, RU	P&IDs, mechanical detail design, civil design (piling, foundations, cladding, roof)	P&IDs: 45; pipes: 1,312; valves: 2,853; equipment: 199
2021	Kronospan Bulgaria	Glue production plant with formalin unit, 120,000 t/y – study	Veliko Tarnovo, BG	Study	
2021–2022	Schur Flexibles Moneta	W&H Heliostar gravure printing press, hall extension	Trebišov, SK	Building permit and IPPC, tender documents, dispersion study	
2021–2022	Malai Biomaterials Design	Heat-pump drying unit, assembled and tested as one unit before shipment	Kerala, IN	Electrical design, technical file to EN 60204-1	
2021	GeLiMa	New hot-water line for extractors	Liptovský Mikuláš, SK	Basic and detail design	
2021	VOLINIA	Recovery boiler feed process	Hencovce, SK	Detail design	
2021	Carmeuse Slovakia	Roofing of the lime dispatch, Slavec lime works	Slavec, SK	Building-permit design	
2021–2026	Syráreň Bel Slovensko	Structural assessments of the floor slab and columns of the processed-cheese plant	Michalovce, SK	Structural assessment	
2021	BarCom	Foundations for the VIGANO CTL 1600×3 cut-to-length line	Haniska, SK	Detail design	
2020–2021	FAVEA Europe (CZ)	New pharmaceutical (endocrine) plant	Počep, RU	Conceptual design, building permit, procurement documents, detail design	equipment: 852

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YEAR	CLIENT	PROJECT	LOCATION	SCOPE	SIZE
2020–2021	TechniCAD Engineering (CH) for Nestlé	Extension of the fermentation unit of the Nestlé plant	Konolfingen, CH	Detail design, 3D model	pipes: 188; valves: 458; equipment: 4
2020	Slovenské liehovary a likérky	Ethanol distillation and rectification	Leopoldov, SK	3D model of existing state, detail design, LV connection, documents for technical inspection, as-built	pipes: 377; valves: 144
2020	ENVIRAL	Intensification of fermentation (SSF)	Leopoldov, SK	Detail design, as-built	
2020	OV-INVEST	Reconstruction and extension of a biodiesel (rapeseed methyl ester) installation	Šenkvice, SK	Feasibility study	
2020	INTECH	Above-ground storage of crude oil and petrochemical products, SWS Vojany	Vojany, SK	Building-permit design, cost estimate	
2020	Honeywell	Reconstruction of boiler K9, CHEMES	Humenné, SK	Detail design, as-built	
2020	ORAC Slovakia	Modernisation of production of decorative products	Lipany, SK	Building-permit and detail design	
2019	Energochemica Trading	Biorefinery, 2G bioethanol: thermal pretreatment of biomass (SO 20) – designed, not built	Strážske, SK	Building permit, tender documents, detail design, steel workshop drawings	
2019	ENVIRMINE-ENERGO	Modernisation of the refractory clinker production line	Jelšava, SK	Building permit, structural calculations, detail and workshop design	
2019	POĽNOSERVIS	Raw rapeseed-oil piping; storage tank for spent-CIP sludge	Leopoldov, SK	Detail design	
2019	ROKOVIA	Concept of a keratin fertiliser plant from horns and hooves: block scheme and site layout	Kenya	Concept	site: 10 ha
2018–2019	JPS for U. S. Steel Košice	Coke-oven gas desulphurisation: 3D model of existing plant from laser scan, dephlegmator, coal-water stripper	Košice, SK	Laser scan, 3D model, detail design, pipe stress analysis (CAESAR II)	
2019	WITKOWITZ Slovakia	Reinforcement of steel structure, coke battery KB1	Košice, SK	Detail design	
2019	ARAD Slovakia	Intensification of the water treatment plant	Bukovec, SK	Detail design	
2019	Schur Flexibles Moneta	Relocation of gravure printing and laminating machines	Trebišov, SK	Engineering, coordination, design	

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YEAR	CLIENT	PROJECT	LOCATION	SCOPE	SIZE
2018–2022	Kronospan / DUKOL Ostrava	Steam turbine and generator	Ostrava, CZ	Building permit, tender documents, detail design, pipe stress analysis (CAESAR II), as-built (2022)	pipes: 96; valves: 153; equipment: 9
2018–2021	DIAKOL Strážske	Expansion of formaldehyde and glue production: concept and study; building permits for the glue-capacity increase (2019) and the modernisation of glue production (2021)	Strážske, SK	Concept, study, building-permit design	
2018	LIGNOSTAR	Wood plastification plant: environmental impact assessment	Spišská Nová Ves, SK	EIA documentation	
2017–2019	Kronospan / DUKOL Ostrava	Glue production expansion; melamine store	Ostrava, CZ	Building permit, procurement, laser scan, detail design, as-built	pipes: 214; valves: 425; equipment: 63
2017–2018	Kronospan / DUKOL Ostrava	Formaldehyde plant 1 modernisation	Ostrava, CZ	Building permit, procurement, laser scan, detail design, as-built	pipes: 125; valves: 248
2017–2019	JPS for Mondi Štětí	EcoFlex – recausticising	Štětí, CZ	Detail design of piping, PDMS model, as-built	
2018–2020	Plzeňský Prazdroj Slovensko	Can line, filtration line, beer tanks	Veľký Šariš, SK	Building-permit and detail design	
2017–2018	OFZ	FeSiCa crushing and grinding plants	Istebné, Široká, SK	Authority documents, building permit, tender documents, change of use	
2017–2018	ENVIRAL; OT Industries (HU)	Second-generation cellulosic bioethanol plant (project stopped in 2018, not built)	Leopoldov, SK	Building-permit documentation, coordination of HAZOP and SEVESO risk study, check of basic engineering, tender packages, demolition design	
2017–2019	TP 2	Poša sludge lagoon: dam stabilisation, extension of the feed pipeline, hydraulic recalculation, discharge of waste water	Strážske, SK	Expert assistance, detail design, zoning-permit design	
2017–2018	Duslo	Denitration column C25, KD2 plant: structural assessment of the support, replacement design	Strážske, SK	Structural assessment, detail design	
2017–2018	U. S. Steel Košice	Air dryer for galvanising line PZ2	Košice, SK	Detail design, workshop drawings, designer's supervision	
2017	Basler & Hofmann Slovakia	R4 Prešov northern bypass: automatic fire-water pressure station for the Bikoš tunnel (180 m³ tank, 3 pumps, 20 l/s)	Prešov, SK	Detail design (mechanical part), bill of quantities	equipment: 3 pumps

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YEAR	CLIENT	PROJECT	LOCATION	SCOPE	SIZE
2014–2021	Nexis Fibers; PLYNMONT; TECHNOS	ECOPOL II – expansion of bio-polymer production	Humenné, SK	Authority documents, building permit, laser scan, PDMS model, detail design, as-built, final approval	capacity: +3,000 t/y
2015–2017	U. S. Steel Košice	Chromium-free passivation, tinning line EC2	Košice, SK	Authority documents, laser scan, reverse engineering, basic design, building permit, detail and workshop design, manuals, as-built, supervision	pipes: 194; valves: 312
2015–2017	Energochemica Trading	Biomass heating plant	Strážske, SK	Zoning permit, authority documents, laser scan, reverse engineering, basic design, building permit, supervision	
2015	Biochemtex S.p.A. (IT)	Energy block 81 MWth for a biorefinery (not built)	Strážske, SK	Zoning permit, SEVESO risk study, building-permit design, IPPC application	
2016–2018	BUKOCEL	CNCG and SOG gas combustion and disposal	Hencovce, SK	Detail design, start-up, designer's supervision, as-built	
2016–2017	U. S. Steel Košice	Chemical coater for galvanising line CGL2	Košice, SK	Authority documents, laser scan, reverse engineering, basic design, building permit, detail design, supervision, as-built	
2015	TP 2	Removal of boiler K21 and its equipment	Strážske, SK	Demolition permit design	
2016	DIAKOL Strážske	Tie-in of a new 70 m³ reactor into the glue production	Strážske, SK	Technical assistance, 3D model	
2016	Duslo	Removal of round store C	Strážske, SK	Demolition permit design	
2014–2015	ZAO Kaprolaktam Kemerovo	Revamp of KA-oil production (cyclohexane oxidation)	Kemerovo, RU	Study and expert report in Russian, laser scan, reverse engineering, basic design	
2015	ProIng for U. S. Steel Košice	Revamp of ammonia splitting equipment	Košice, SK	Detail design, PDMS model, as-built	
2014–2015	DIAKOL Strážske	53 % formaldehyde storage tank	Strážske, SK	Study, building permit, detail design incl. I&C and electrical	
2014	CHEMSTROJ for Fortischem	Repair and replacement of the DN200 steam line from boiler OKP 25	Nováky, SK	Detail design	

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YEAR	CLIENT	PROJECT	LOCATION	SCOPE	SIZE
2013–2015	Hnojivá Duslo	Nitric-acid KD2 and calcium-nitrate plants: emission reduction and KD2 efficiency, new off-gas scrubber, new bagging machine, cooling-drum replacement, retention bunds under the ammonia spheres	Strážske, SK	Building-permit design, IPPC changes, detail design	
2013	ProCS for Hnojivá Duslo	Control system of nitric-acid plant KD2, stage I	Strážske, SK	Detail design	
2013	CADEO Consulting / EI-TEM	Seine Centre wastewater treatment plant (SIAAP): piping fabrication documentation	Paris region, FR	Piping detail and fabrication design	
2013	GFI for UPJŠ Košice	University laboratories: compressed-air, technical-gas and helium-recovery piping	Košice, SK	Detail design	
2013	ITP Group	Cyclohexanone rectification revamp, Grodno Azot	Grodno, BY	Technical assistance	
2012–2014	Slovakia Steel Mills	Rolling-mill cooling-water I&C; front-end study and investment intention for high-quality steel products; metallographic laboratory	Strážske, SK	Detail design, study, building-permit design	
2012	ALTHAN / CHEMES	Steam and energy-media distribution, objects SO 204 and SO 205	Humenné, SK	Detail design	
2011	Siemens for BUKOCEL	Drum water-level measurement (Hydrastep), boiler K1	Hencovce, SK	Detail design	
2011	Chemko Strážske	Dastib 845 unit reconstruction: intensification, as-built documentation, environmental protocols	Strážske, SK	Detail design, as-built, protocols	
2010–2011	TSR Slovakia	Metal-processing facility Bytča–Hrabové	Bytča, SK	Building-permit design, change before completion	
2010	DIAKOL Strážske	General overhaul of the second circulation circuit	Strážske, SK	Detail design	
2010	TP 2	Piping modifications in the decarbonisation building	Strážske, SK	Technical assistance	
2009–2013	Chemko Strážske	Underground acetaldehyde tanks: repair design, as-built I&C, hazardous-area protocol, catch basin at the unloading point	Strážske, SK	Detail design, as-built, protocols	

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YEAR	CLIENT	PROJECT	LOCATION	SCOPE	SIZE
2009–2012	Slovenské elektrárne (directly and via contractors)	Vojany power plant: fire-water distribution, blower interconnection dampers, demi-water make-up metering, HCl unloading, machine-hall ventilation, waste-water metering	Vojany, SK	Detail design, turnkey delivery (HCl unloading), as-built	
2009–2010	ZINPRO	Fire stations in Michalovce and Krompachy: reconstruction, modernisation and extension; health-centre modernisation	Michalovce, Krompachy, SK	Detail design, building-permit design	
2009–2010	PROBUGAS	LPG rail transshipment: limit-switch replacement; liquid separator upstream of the compressor suction	Čierna nad Tisou, SK	Detail design, turnkey delivery	
2009	SCPC	Back-up power-sources plant on a 14.2 ha greenfield site: power supply and HV connection	Rybany, SK	Zoning-permit documentation	
2009	CHEMSTROJ	Pipe bridge at the Bukóza site	Hencovce, SK	Detail design	
2008–2025	BSH Drives and Pumps	Electric-motor plant: furnace installations and flue-gas extraction, impregnation-oven exhaust, welding-fume extraction, emission assessment, hazardous-area documentation; relocation of a production technology from the Nazarje plant (SI)	Michalovce, SK	Detail design, hazardous-area documentation, protocols	
2008	HIDROFILT (HU) for Slovnaft	Chemical store of the water-treatment plant: separate storage of sodium metabisulphite from oxidants and acids	Bratislava, SK	Process and civil detail design	
2008	Chemko Strážske	Structural assessment of eight plant buildings	Strážske, SK	Structural assessment	
2008	Chemko Strážske	Demolition of the former cyclopentanone and Chempor units	Strážske, SK	Demolition design	
2007–2008	SEA CZ	Combined heat and power boiler house K24	Strážske, SK	Building-permit design, detail design	
2006–2014	Silicon	Mining and processing of serpentinite for silica and Mg(OH)2 production (construction status not recorded)	Dobšiná, SK	Zoning and building permit, study, basic design, detail design, PDMS model	
2013–2019	BUKÓZA HOLDING; GREENCEL	Powder cellulose, stages I–III; new batch digester	Hencovce, SK	Building-permit and detail design, as-built	
2013	BUKOCEL	Production of sulphate cellulose	Hencovce, SK	Building permit, detail design, PDMS model	
2013	OSTCHEM, Azot Cherkasy	Scrubber and flue-gas cleaning in the ammonium nitrate and soda shops	Cherkasy, UA	Basic designs in Russian	

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YEAR	CLIENT	PROJECT	LOCATION	SCOPE	SIZE
2013	CHEMES	Energy efficiency of production and consumption	Humenné, SK	Basic and detail design, as-built	
2014	ARAD Projects for MONDI SCP	Waste-water treatment plant, 700,000 population equivalent	Ružomberok, SK	Study	
2013	Vinné village	Main square	Vinné, SK	Study	
2010–2013	OAO Ščekinoazot	Formaldehyde (formalin KMMF-60) production plant revamp	Ščekino, RU	Conceptual design, basic design, supervision, start-up	
2012–2013	UNIGAS EUROPE	Automatic gas regulator station	Anopino, RU	Building permit, detail design, PDMS-based documentation to GOST and SNiP	
2012–2013	TechniCAD Engineering (CH)	PEG2MAL pharmaceutical project	Belgium	Piping and HVAC design in PDMS	
2012	Hnojivá Duslo	Evaporation of ammonia by warm water	Strážske, SK	Basic design, supervision	
2012	Noving Nováky	Drying of biotechnological products; toll manufacturing plant (TMA)	Slovakia	Detail design, PDMS model, designer's supervision	
2012	ROKOSAN	Liquid organic fertiliser from poultry feathers – study	Sečovce, SK	Study	
2012–2018	ROKOSAN	Relocatable container units, modular 15,000 t/y plant, verification unit	Slovakia; China	Concept, modular plant design, technical support	
2012–2013	Koch-Glitsch Italia	Cyclohexanone rectification unit revamp, Kuibyshevazot	Togliatti, RU	Basic design, PDMS model	
2012	Slovenské elektrárne	Unloading of chemicals from rail tank cars	Zemianske Kostoľany, SK	Detail design	
2008–2012	CROWN Bevcan Slovakia	Beverage-can plant (775 million cans/y) and second line	Kechnec, SK	Authority documents, IPPC, reverse engineering, building permit, detail design, supervision, as-built	
2011	Armales	Extension and reconstruction of hotel Armales	Stakčín, SK	Zoning and building-permit documentation	
2011	DIAKOL Strážske	Connection of the cogeneration unit J 320 GS	Strážske, SK	Authority documents, basic design, building permit	
2011	Hnojivá Duslo	New ammonia compressor MYC N8M, compressed-air production, new micro-tower C102B and reconstruction of the evaporators	Strážske, SK	Detail design, supervision	

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YEAR	CLIENT	PROJECT	LOCATION	SCOPE	SIZE
2011	Syráreň Bel Slovensko	External influences and hazardous areas	Michalovce, SK	Protocols, detail design	
2011	INTERKONTAKT for Slovenské elektrárne	Vojany power plant: reconstruction of the returning-condensate system; fire protection of coal handling – sprinklers and water curtains	Vojany, SK	Detail design, supervision	
2011	ENERGO CONTROL for Slovenské elektrárne	Vojany power plant: coal handling control system; TG15 reconstruction – control system and instrumentation	Vojany, SK	Detail design, supervision	
2011	Telegrafia for Slovenské elektrárne	Light and sound alarms of emergency readiness	Vojany, Nováky, SK	Detail design, supervision	
2010–2011	IFC (World Bank Group)	Chemical engineering and consulting, resource efficiency of a petrochemical plant	Novokuibyshevsk, RU	Process simulation (Aspen Plus), conceptual study, consulting	
2010–2011	TSR Slovakia	Scrap yard with railway siding on the Chemko premises	Strážske, SK	EIA screening, zoning and building permits, detail design, supervision, as-built, occupancy	
2010–2011	Združenie CEVING for GETRAG FORD Transmissions	Logistics centre – battery charging room	Kechnec, SK	Building permit, conceptual and detail design, supervision	
2010	Vinné village	Concept of the Hôrka zone urban design	Vinné, SK	Study	
2009–2011	OAO Ščekinoazot	Cyclohexanone oxidation plant revamp	Ščekino, RU	Simulation, conceptual and basic design, detail design, laser scan, reverse engineering	
2008	Vinné village	Wine museum; lavatory facility, Vinné lake camp	Vinné, SK	Detail design	
2008	Združenie CEVING	PPT production area	Kechnec, SK	Building-permit design	
2008	UND-FRISCHBETON	Mobile concrete mixing unit	Strážske, SK	Building-permit design	
2008	U. S. Steel Košice	Escape-route marking, building DZ HD; power distributors and emergency lighting, HCl recovery station	Košice, SK	Detail design	
2008	TRANSCOM TECHNIK	Water flow measurement at the heat station intake	Košice, SK	Detail design, procurement, turnkey delivery	
2008	SWS	Unloading of heavy products	Vojany, SK	Detail design, supervision	
2008–2009	OAO Ščekinoazot	Dismantling of the 80,000 t/y cyclohexanone plant for relocation	Strážske, SK	Dismantling permits, reverse engineering, dismantling design, PDMS model, supervision, H&S coordination	pipes: 1,161; valves: 2,045; equipment: 401

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2008	Chemko Strážske	Emissions disposal; reactivation of formaldehyde unit Fd III	Strážske, SK	Building permit, detail design	
2008	CHEMES	Electric power availability of steam turbogenerator No. 3	Humenné, SK	Building permit, detail design	
2008	Grontmij | Carl Bro (DK)	Multigas LNG/LPG carrier – cooling station modules	Denmark	Detail design of steel structures and piping, PDMS model	
2008	DUSLO	Waste incinerator – filtration of liquid wastes	Šaľa, SK	Detail design, as-built	
2008	Datakon for ArcelorMittal Poland	Four-stand tandem cold mill – motor control centres (design work in Mannheim, DE)	Kraków, PL	Detail design (electrical, MCC)	
2008	ABB	Replacement of ATL and ATR automatic transfer systems	Košice, SK	Detail design	
2008	CENON	Dismantling of process equipment	Strážske, SK	Authority documents, building permit, supervision	
2007–2008	Energyco for CORUS	Continuous galvanising line DVL3	IJmuiden, NL	Detail design, PDMS model	pipes: 1,005; valves: 298; equipment: 237
2007–2008	Proda	Reconstruction of the Proda building	Malčice, SK	Building permit, detail design, supervision	
2007–2009	Hnojivá Duslo	Calcium nitrate (LAV) production unit revamp	Strážske, SK	Building permit, detail design, PDMS-based documentation, permits, tender, supervision, as-built	pipes: 140; valves: 308; equipment: 100
2007–2012	ENERGO CONTROL	Reactivation of the Cienfuegos refinery: reinstrumentation, section 300, truck loading	Cienfuegos, CU	Basic and detail design, FAT, supervision, as-built	
2007	Chemko Strážske	Reconstruction of tourist hostel "Chemik" to a hotel	Strážske, SK	Building permit, study, 3D visualisation	
2007	ABB Lummus Global (CZ)	Hydrocracker complex	Kirishi, RU	Detail design	
2007	Slavex Industrial Filters	Boiler desulphurisation – control system	Humenné, SK	Detail design, procurement, turnkey delivery	
2007	KG Process Innovations (CZ)	Cyclohexanone production unit – design support	Grodno, BY	Basic design	
2007	Chemko Strážske	Solidification of wastes and old environmental loads	Strážske, SK	Building permit, detail design	
2007	Grontmij | Carl Bro (DK)	Wintergas LPG carrier	Denmark	Detail design of steel structures and piping, PDMS model	pipes: 600; valves: 486; equipment: 155

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2007	DIAKOL Strážske	Shift from continuous to batch DIAKOL production; overhaul of the formaldehyde reaction section and of the blower section with piping rearrangement; overfill protection of the methanol storage tank	Strážske, SK	Conceptual design, detail design, procurement, turnkey delivery	
2007–2009	Východoslovenská vodárenská spoločnosť	Water supply and sewerage projects	Eastern Slovakia	Building-permit designs	
2006–2008	Not named	Sea-water reverse-osmosis desalination plant: survey and 3D reverse engineering	Tajoura, LY	Survey, PDMS as-built model	
2006	ABB Lummus Global (CZ)	ECC project	Singapore	Detail design	
2006	PlantWare (DK)	Design support in PDMS	Denmark	3D design	
2006	SWS	Alignment of technology with current codes	Vojany, SK	Conceptual design	
2006	Karotáž a cementace	Well water and gasoline flow measurement	Trebišov, SK	Detail design, procurement, turnkey delivery	
2006	DIAKOL Strážske	Extension of UF adhesive storage capacity	Strážske, SK	Building permit, detail design	
2006	Honeywell	Reinstrumentation of boiler K8, CHEMES	Humenné, SK	Detail design, procurement, turnkey delivery	
2006	Chemko Strážske	Environmental impact assessment documents	Strážske, SK	EIA	
2006	ENERGEA Umwelttechnologie (AT)	Containerised biodiesel plant in 8 modules	Australia	Detail design, supervision of module production, testing and shipment; carried out in close cooperation with Noving	
2006–2008	Ekologické služby	Handling areas, lime silo, unloading of waste waters	Strážske, SK	Building-permit design, detail design	