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SODACONSULT – Consulting & Engineering Office

31-216 KRAKÓW, ul. Konecznego 8/8u, Poland

tel.: +48 12 416 55 05, biuro@sodaconsult.eu

MAIN REFERENCES 1991-2020

DATE	PROJECT NAME	Country - Location Investor / Buyer	SERVICES
2020	AIR DISCHARGE INSTALLATION from POLISHING FILTER TO VENTILATION CHIMNEY	Poland - Głogów KGHM Polska Miedź Copper Smelter	<ul style="list-style-type: none"> • Detail Engineering • Mechanical design of fabricated equipment • Investment costs estimation
2020	MODERNIZATION OF THE CHLORINE SALT WASH INSTALLATION AT THE UTILIZATION (DISPOSAL) INSTALLATION	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> • Mass balances • Multidiscipline technical & cost concept covering all Soda Ash Plant Units • Equipment bidding
2020	MODERNIZATION OF THE CHLORINE SALT WASH INSTALLATION AT THE UTILIZATION (DISPOSAL) INSTALLATION	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Mass balances • Multidiscipline technical & cost concept covering all Soda Ash Plant Units • Equipment bidding
2019	DISTILLATION UNIT NEW 2 CC COLUMNS	Germany - Stassfurt CIECH Soda Deutschland	<ul style="list-style-type: none"> • Technological design • Mechanical design of fabricated equipment • Guidelines for remaining Detail Engineering
2019	RAW SODA UNIT INSTALLATION OF VACUUM PUMP AND HORIZONTAL VACUUM BELT FILTER	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Multidiscipline technical & cost concept • Detail Engineering <ul style="list-style-type: none"> – Plant design & piping – Technological pipelines – Electrical – Instrumentation & control – Civil & structural • Mechanical design of fabricated equipment • Equipment bidding • Manuals and instructions • Investment costs estimation
2019	CALCINATION PLANT, BICARBONATE PLANT INSTALLATION DCB COLUMN	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Multidiscipline technical & cost concept • Detail Engineering <ul style="list-style-type: none"> – Plant design & piping – Technological pipelines – Electrical – Instrumentation & control – Civil & structural • Mechanical design of fabricated equipment • Equipment bidding • Manuals and instructions • Investment costs estimation
2019	INSTALLATION OF METALS MAGNETIC SEPARATION EQUIPMENT IN BICARBONATE PLANT (Pharmaceutical grade)	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Multidiscipline technical concept • Detail Engineering • Equipment bidding
2019	DISTILLATION UNIT Installation of CC + RG-CC columns	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> • Multidiscipline technical & cost concept • Detail Engineering • Mechanical design of fabricated equipment



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2018	REFINED SODIUM BICARBONATE PLANT	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Preliminary hazard analysis coming from installed equipment, with a short-term schedule of risk elimination
2018	LIGHT SODA ASH (LSA) COOLING PLANT – II Part	Poland - Inowrocław CIECH Soda Polska / CIECH R&D	<ul style="list-style-type: none"> • Multidiscipline technical & cost concept • Equipment bidding
2018	ZnO COOLING & MILLING PLANT Replacement of pneumatic conveying pipelines elements	Poland - Bukowno ZGH „BOLESŁAW”	<ul style="list-style-type: none"> • Plant design & piping • Civil & Structural design • Investment costs estimation
2018	TWO NEW ABSORPTION SYSTEMS WITH THE CAPACITY OF 900 t/d EACH	Germany - Stassfurt CIECH Soda Deutschland	<ul style="list-style-type: none"> • Conceptual Design • Detail Engineering
2018	ABSORPTION OF CO ₂ FROM RESIDUAL GASES	Poland - Inowrocław CIECH Soda Polska / CIECH R&D	<ul style="list-style-type: none"> • Multidiscipline technical & cost concept • Engineering design • Mechanical design of fabricated equipment • Equipment bidding
2017	LIGHT SODA ASH (LSA) COOLING PLANT – I Part	Poland - Inowrocław CIECH Soda Polska / CIECH R&D	<ul style="list-style-type: none"> • Multidiscipline technical & cost concept • Equipment bidding
2017	NEW SODA ASH WORKS	Turkmenistan TEPE Constr. Ankara	<ul style="list-style-type: none"> • Preliminary Conceptual Design
2017	PREHEATING OF BOILER WATER PLANT WITH HEAT RECOVERY	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> • Technical & cost concept • Civil & structural design • Equipment bidding
2017	MODERNIZATION OF LIMESTONE CHUTES	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Mechanical design of limestone chutes
2017	INSTALLATION OF GASES COOLER – KDS TYPE FOR CALCINATION PLANT	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> • Technical & cost concept • Civil & structural design • Equipment bidding
2017	MODIFICATION OF EXISTING DCB COLUMN	Germany - Stassfurt CIECH Soda Deutschland	<ul style="list-style-type: none"> • Technological documentation
2017	NEW ABSORPTION SYSTEM with the capacity of 900 t/d	Germany - Stassfurt CIECH Soda Deutschland	<ul style="list-style-type: none"> • Detail Engineering <ul style="list-style-type: none"> – Plant Design & Piping – Instrumentation & control design -process – Guidelines for remaining Detail Engineering – Modification of Detail Mechanical Designs



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2017	ABSORPTION AND CARBONATION – PILOT PLANT	Poland - Inowrocław CIECH Soda Polska / CIECH R&D	<ul style="list-style-type: none"> • Detail Engineering <ul style="list-style-type: none"> – Plant design & piping – Technological pipelines – Electrical – Instrumentation & control – Civil & structural • Services <ul style="list-style-type: none"> – Equipment bidding – Design inventory – Design coordination • Supervisions
2017	EXTENSION OF EXISTING REFINED SODIUM BICARBONATE PLANT (Pharmaceutical grade)	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Detail Engineering <ul style="list-style-type: none"> – CO₂ gas purification section – Condensate and demi water filtration • Technical & cost concept <ul style="list-style-type: none"> – Section of soda solution filtration • Design of new electrical switchgear installation • Equipment bidding • Manuals and instructions • Civil & structural design
2016	NEW ABSORPTION SYSTEM with the capacity of 900 t/d	Germany - Stassfurt CIECH Soda Deutschland	<ul style="list-style-type: none"> • Basic Engineering <ul style="list-style-type: none"> – Process design – Apparatuses & piping – Instrumentation & control – SDC Guidelines • Mechanical design of fabricated equipment • Bidding for standard and auxiliary equipment
2016	RELOCATION OF DSA PLANT (Monohydrate)	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> • Technical & cost study
2016	MODERNIZATION OF METALS MAGNETIC SEPARATION UNIT at inlet to Light Soda Ash (LSA) storage bin	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Exchange of chute at inlet to LSA storage bin and selection of magnetic separator
2016	PLANT OPERATION MANUAL for Calcium Chloride (CaCl ₂) Plant	Switzerland - Winterthur SEP Salt and Evaporation Plants	<ul style="list-style-type: none"> • Translation of Calcium chloride plant operation manual
2016	MODERNIZATION OF FILTERS ON EXISTING ZnO SILOS	Poland - Bukowno ZGH „BOLESŁAW”	<ul style="list-style-type: none"> • Plant design & piping • Electrical design • Instrument & control • Equipment bidding • Design coordination



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2016	FERTILIZER CHALK PLANT Post-distillation slurry processing	Poland - Janikowo CIECH Soda Polska / ELEKTROBUDOWA	<ul style="list-style-type: none"> • Detail Engineering <ul style="list-style-type: none"> – Plant design & piping – Equipment arrangement – Instrument air installation • Equipment bidding • Coordination • Manuals and instructions • Civil & structural design
2015	FERTILIZER CHALK PLANT Post-distillation slurry processing	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> • Concept for approval • Basic Engineering Package • Permit for construction • Equipment contracting (technical) <p>Notes: Environmental protection aspects</p>
2015	IMPLEMENTATION DSA PLANT using relocated equipment	Argentina - San Antonio Oeste ALPAT - ALCALIS DE LA PATAGONIA	<p>Concept for approval</p> <ul style="list-style-type: none"> • Process design update • Detail Engineering <ul style="list-style-type: none"> – Plant design & piping – Instrument & control – Electrical – Civil & structural • Equipment contract
2015	EXTENSION OF DSA PLANT (Monohydrate)	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Detailed Engineering • Plant design & piping • Instrument & control • Electrical • Equipment contracting (technical)
2015	NEW REFINED SODIUM BICARBONATE PLANT	Asia - Vietnam	<ul style="list-style-type: none"> • Pre-feasibility Study
2015	MODERNIZATION OF NICKEL SULPHATE INSTALLATION	Poland - Głogów KGHM Polska Miedź Copper Smelter	<ul style="list-style-type: none"> • Plant design & piping • Civil & structural design • Electrical design • Instrumentation design • Control & visualization system • Guidelines and instructions • Equipment bidding



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2014	INTENSIFICATION OF SODA ASH PRODUCTION CAPACITY by 200.000 t/y <ul style="list-style-type: none"> ◆ Brine purification - filtration ◆ Absorption ◆ Distillation – new line ◆ Monohydrate ◆ Utilization ◆ Compressed air system ◆ Dedusting installation 	Poland - Inowrocław CIECH Soda Polska / PROCHEM	<ul style="list-style-type: none"> • Detailed Engineering <i>2nd stage – Technol. part II</i> <ul style="list-style-type: none"> – Plant Design – Piping Study – Basic mechanical dwgs of fabricated equipment – Mechanical Design of non-standard elements – Guidelines for other parts – Instructions & Manuals – Equipment contracting <p>Notes: PROCHEM Leader</p>
2014	VACUUM SALT WORKS	Poland - Kłodawa KOPALNIA SOLI “KŁODAWA” / ARP	<ul style="list-style-type: none"> • Pre-feasibility Study
2014	NEW PLANT for ZnO COOLING & MILLING	Poland – Bukowno ZGH “BOLESŁAW”	<ul style="list-style-type: none"> • Assistance at erection & putting into operation
2014	INTENSIFICATION OF SODA ASH PRODUCTION CAPACITY by 60.000 t/y <ul style="list-style-type: none"> ◆ Brine purification ◆ Absorption ◆ Distillation ◆ Carbonation ◆ Calcination ◆ Utilization ◆ Compressed air system ◆ Dedusting installation 	Poland - Inowrocław CIECH Soda Polska / PROCHEM	<ul style="list-style-type: none"> • Detailed Engineering <i>1st stage – Technol. Part I</i> <ul style="list-style-type: none"> – Plant Design – Piping Study – Basic mechanical dwgs of fabricated equipments – Mechanical Design of non-standard elements – Guidelines for other parts – Instructions & Manuals – Equipment contracting <p>Notes: PROCHEM Leader</p>
2013	EXTENSION OF REFINED SODIUM BICARBONATE	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Technical assistance at putting into operation
2013	INTENSIFICATION OF SODA ASH PRODUCTION CAPACITY by 200.000 t/y <ul style="list-style-type: none"> ◆ Brine purification ◆ Absorption ◆ Distillation ◆ Carbonation ◆ Calcination ◆ Monohydrate ◆ Utilization 	Poland - Inowrocław CIECH Soda Polska	Basic Engineering – <i>Technological part II</i> <ul style="list-style-type: none"> • Process design • Key equipment arrangement • Basic process dwgs of key equipment • Guidelines for other parts • Equipment bidding • Permit for construction <p>Notes: PROCHEM Leader</p>
2013	EXTENSION OF EXISTING SODA ASH INSTALLATIONS	Argentina - San Antonio Oeste ALPAT - ALCALIS DE LA PATAGONIA	<ul style="list-style-type: none"> • Detail Mechanical Design for fabricated equipment



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2013	EXTENSION OF EXISTING SODA ASH INSTALLATIONS	Argentina San Antonio Oeste ALPAT - ALCALIS DE LA PATAGONIA	<ul style="list-style-type: none"> • Technical Concept for approval • Interconnections
2012	EXTENSION OF EXISTING SODA ASH INSTALLATIONS	Argentina - San Antonio Oeste ALPAT - ALCALIS DE LA PATAGONIA	<ul style="list-style-type: none"> • Auditing • Detailed Feasibility Study
2012	VACUUM SALT WORKS	Poland - Polkowice-Sierszowice KGHM Polska Miedź Mining Works / Fundacja „Nauka i Tradycje Górnicze”	<ul style="list-style-type: none"> • Stage II – Detailed Feasibility Study <p>Notes: MVR technology “selected location”</p>
2011	EXTENSION OF REFINED SODIUM BICARBONATE	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Alternative concepts • Project impact on environment • Permit for construction • Detail Engineering • Detail Mechanical Designs of fabricated equipment • Interconnections
2011	VACUUM SALT WORKS	Poland - Polkowice-Sierszowice KGHM Polska Miedź Mining Works / Fundacja „Nauka i Tradycje Górnicze”	<ul style="list-style-type: none"> • Stage I – Technical & Cost Concept <p>Notes: MEE Technology “green grass”</p>
2011	MODERNIZATION OF ELECTROLYTE PURIFICATION	Poland - Głogów KGHM Polska Miedź Copper Smelter	<ul style="list-style-type: none"> • Reconstruction of existing tank for waste acid including piping • Detail engineering
2011	MODERNIZATION OF EXISTING ZnO SILOS	Poland – Bukowno ZGH “BOLESŁAW”	<ul style="list-style-type: none"> • Mechanical engineering
2011	NEW PLANT for ZnO COOLING & MILLING	Poland – Bukowno ZGH “BOLESŁAW”	<ul style="list-style-type: none"> • Alternative concepts • Project impact on environment • Permit for construction • Detail Engineering • Detail Mechanical Designs of fabricated equipment
2011	WASTE HEAT MANAGEMENT From evaporators of magnesium sulphates	Poland - Wrocław Z.CH. “ZŁOTNIKI”	<ul style="list-style-type: none"> • Alternative concepts
2010	NEW DSA PRODUCTION PLANT, STORING, PACKING & SHIPMENT	Russia - Berezniki BEREZNIKI SODA PLANT / BH INDUSTRIES Project	<ul style="list-style-type: none"> • Program on achievement design parameters of DSA Plant • Technical Audit



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2010	NEW DSA PRODUCTION PLANT, STORING, PACKING & SHIPMENT	Russia - Berezniki BEREZNIKI SODA PLANT / BH INDUSTRIES Project	<ul style="list-style-type: none"> Assistance at putting into operation Notes: Cooperation with: <ul style="list-style-type: none"> GEA/NIRO Denmark, MOELLERS Germany, CLAUDIUS PETERS Germany, ABIS Poland
2010	UP-GRADATION OF REFINED SODIUM BICARBONATE Installation of DCB column with auxiliaries	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> Technical Audit Alternative Technical & Cost Study
2010	DENSE SODA ASH PLANT <i>New installation of monohydrate crystallization at Nirma Works</i>	India - Ahmadabad JACOBS	<ul style="list-style-type: none"> Preliminary Process Study Notes: Cooperation with GEA/NIRO Denmark
2010	NEW REFINED SODIUM BICARBONATE	France - Nancy NOVACARB	<ul style="list-style-type: none"> Detail Mechanical Designs of fabricated equipment (column type apparatuses)
2009	NEW REFINED SODIUM BICARBONATE	France - Nancy NOVACARB	<ul style="list-style-type: none"> Alternative Preliminary Study Basic Engineering Package
2009	NEW DSA PRODUCTION PLANT, STORING, PACKING & SHIPMENT	Russia - Berezniki BEREZNIKI SODA PLANT / BH INDUSTRIES Project	<ul style="list-style-type: none"> Checking local engineering (Civil & Structural + Electricals) Supervision of Civil work & Equipment erection Process assistance at control & visualization system Assistance at pre-commissioning Notes: Cooperation with: <ul style="list-style-type: none"> GEA/NIRO Denmark, MOELLERS Germany, CLAUDIUS PETERS Germany, ABIS Poland
2009	UP-GRADATION OF ELECTROLYTE PURIFICATION PLANT Electrolyte concentration at production of nickel sulphate <i>at Głogów Cooper Mill</i>	Poland - Głogów KGHM Polska Miedź Copper Smelter	<ul style="list-style-type: none"> Alternative Location Concept Basic Engineering Detail Engineering On site assistance Notes: Cooperation with CHEMATUR Finland
2008	DEWATERING SYSTEM OF COPPER SEDIMENTS	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> Technological expertise
2008	UP-GRADATION OF LIME SHAFT KILNS Intensification technology of lime burning	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> Alternative Concepts Project impact on environment Permit for construction Detail Engineering Detail Mechanical Designs of fabricated equipment



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2008	UP-GRADATION OF BRINE PURIFICATION SECTION Installation of new intensive decanter	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> Alternative concepts Project impact on environment Permit for construction Detail Engineering Detail Mechanical Designs of fabricated equipment
2008	UP-GRADATION OF REFINED SODIUM BICARBONATE Installation of 4 th carbonating column with auxiliaries	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> Alternative concepts Project impact on environment Permit for construction Detail Engineering Detail Mechanical Designs of fabricated equipment
2008	NEW DSA PRODUCTION PLANT, STORING, PACKING & SHIPMENT	Russia - Berezniki BEREZNIKI SODA PLANT / BH INDUSTRIES Project	<ul style="list-style-type: none"> Theoretical training Practical training on site Supervision of civil & equipment erection <p>Notes: Cooperation with:</p> <ul style="list-style-type: none"> – GEA/NIRO Denmark – MOELLERS Germany – CLAUDIUS PETERS Germany
2008	NEW LSA PNEUMATIC CONVEYING	Russia - Berezniki BEREZNIKI SODA PLANT / BH INDUSTRIES Project	<ul style="list-style-type: none"> Alternative Concepts Equipment procurement Plant design & piping Instrumentation, control & visualization Checking local engineering <p>Notes: Cooperation with CLAUDIUS PETERS</p>
2008	FERTILIZER CHALK <i>Installation of new Post-Distillation Slurry Filtration</i>	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> Multidiscipline Technical & Cost Concept <p>Notes: Cooperation with:</p> <ul style="list-style-type: none"> – ANDRITZ – FILOX – LAROX
2007	NEW SODA WORKS – Light Soda Ash – Dense Soda Ash – Calcium Chloride – Refined Sodium Bicarbonate	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> Preliminary Technical Concept
2007	NEW LSA & DSA PACKING LINE	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> Equipment procurement Detail Engineering Detail Mechanical Designs of fabricated equipment <p>Notes: Cooperation with ERKOMAT Finland</p>
2007	NEW MONOHYDRATE DSA PLANT	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> On site assistance Advising at start-up



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2007	UP-GRADATION OF DISTILLATION SECTION Installation of new Post Distillation Gas Cooler	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> • Technical Concept • Detail engineering • Assistance at procurement Cooperation with: NIOKHIM -Kharkov technology owner
2007	NEW DSA PROJECT <i>at Sterlitamak Soda Company</i>	Russia - Berezniki BEREZNIKI SODA PLANT / BH INDUSTRIES Project	<ul style="list-style-type: none"> • Alternative Location Concept Notes: Cooperation with GEA/NIRO Denmark
2007 2006	NEW DSA PRODUCTION PLANT, STORING, PACKING & SHIPMENT <i>at Berezniki Soda Works</i>	Russia - Berezniki BEREZNIKI SODA PLANT / BH INDUSTRIES Project	<ul style="list-style-type: none"> • Equipment procurement • Plant design & piping • Instrumentation & control • Detail Mechanical Designs of fabricated equipment • Checking local engineering
2006	NEW LSA & DSA PROJECT <i>in Algeria</i>	Algeria Russian Soda Group & FERPHOS	<ul style="list-style-type: none"> • Advising at Project site location
2006	NEW REFINED SODIUM BICARBONATE	Argentina - San Antonio Oeste ALPAT - ALCALIS DE LA PATAGONIA	<ul style="list-style-type: none"> • Preliminary Technical Concept
2006	UP-GRADATION OF CALCINATION SECTION Installation of new Calcination Gas Cooler	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Technical concept • Detail engineering • Assistance at procurement Notes: Cooperation with NIOKHIM - Kharkov technology owner
2006	UP-GRADATION OF DISTILLATION SECTION Installation of new Post Distillation Gas Cooler – II line	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Technical concept • Detail engineering • Assistance at procurement Notes: Cooperation with NIOKHIM - Kharkov technology owner
2006	UP-GRADATION OF ELECTROLYTE PURIFICATION PLANT Electrolyte concentration at production of nickel sulphate	Poland - Legnica KGHM Polska Miedź Polish Copper	<ul style="list-style-type: none"> • Alternative concept • Basic Engineering Notes: Cooperation with MESSO Germany
2006	NEW DSA PRODUCTION PLANT, STORING, PACKING & SHIPMENT	Russia - Berezniki BEREZNIKI SODA PLANT / BH INDUSTRIES Project	<ul style="list-style-type: none"> • Basic engineering • Equipment tendering



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2006 2005	NEW MONOHYDRATE DSA PLANT	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Project impact on environment • Permit for construction • Equipment procurement • Detail Engineering • Detail Mechanical Designs of fabricated equipment <p>Notes: Cooperation with NIRO – Denmark</p>
2005	NEW DSA PRODUCTION PLANT, STORING, PACKING & SHIPMENT	Russia - Berezniki BEREZNIKI SODA PLANT / BH INDUSTRIES Project	<ul style="list-style-type: none"> • Alternative Technical & Cost Study
2005	UP-GRADATION OF MONOHYDRATE DSA PLANT -Installation of monohydrate sieving –crushing unit	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> • Mechanical Engineering • On site assistance
2005	UP-GRADATION OF SALT WORKS Installation of new salt drying unit	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> • Detail Instrumentation & Control design • Detail Electrical design
2005	NEW USG COMPLEX <ul style="list-style-type: none"> ◆ Underground Gas Storages ◆ Soda Ash Works ◆ Evaporated Salt Works ◆ Glass Works 	Russian - Moscow SODA GROUP / BH INDUSTRIES Project	<ul style="list-style-type: none"> • Pre-design study <p>Notes: Cooperation with:</p> <ul style="list-style-type: none"> – LURGI Poland Kraków – CHEMKOP Kraków – GLASS INSTITUTE Kraków
2005 2004	UP-GRADATION OF FILTRATION Installation of new selenium filtration unit	Poland - Głogów KGHM Polska Miedź Copper Smelter	<ul style="list-style-type: none"> • Technical & Cost Concept • Detail Engineering <p>Notes: Cooperation with Dr M- Switzerland</p>
2004	UP-GRADATION OF REFINED SODIUM BICARBONATE at Tata Chemicals Ltd.	India - Mithapur TCL	<ul style="list-style-type: none"> • Technical Audit
2004	UP-GRADATION OF LSA CONVEYING SYSTEM Installation of new dedusting system	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> • Detail engineering <ul style="list-style-type: none"> – Electrical – Instrumentation & control – Visualization
2004	EXPANSION OF FILTRATION SYSTEM FOR PROCESS SOLUTIONS	Poland - Głogów KGHM Polska Miedź Copper Smelter	<ul style="list-style-type: none"> • Technical Concept • Detail Engineering
2004	NEW MONOHYDRATE DSA PLANT- using fluid bed unit at Inowrocław Soda Works	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Process Design • Alternative Technical and Cost Concept
2004	NEW MONOHYDRATE DSA PLANT - using rotary dryer	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> • Process Design • Alternative Technical and Cost Concept



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2003	EXTENSION OF MOLECULAR SIEVES PLANT – Stage II Installation of new storage Al(OH) ₃	Poland - Inowrocław ATOFINA	<ul style="list-style-type: none"> Updating P&ID Detail Mechanical Designs of selected fabricated equipment
2003	NEW CITRIC ACID PROJECT “free gypsum technology”	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> Feasibility Study
2003	UP-GRADATION OF FILTRATION SECTION Modernization of control system for 6. existing drum filters	Poland - Janikowo CIECH Soda Polska	<ul style="list-style-type: none"> Detail Instrumentation & Control design
2003	UP-GRADATION OF REFINED BICARBONATE PLANT Staged extension	Poland - Inowrocław CIECH Soda Polska	<ul style="list-style-type: none"> Alternative Concepts Detail engineering I-st stage Detail Mechanical Designs of fabricated equipment
2002	UP-GRADATION OF DISTILLATION SECTION Installation of new Post Distillation Gas Cooler at Inowrocław Soda Works	Poland - Inowrocław SODA MAŃWY	<ul style="list-style-type: none"> Technical Concept Detail engineering On site assistance
2002	UP-GRADATION OF LSA CONVEYING SYSTEM I-st stage at Janikowo Soda Works	Poland - Janikowo JANIKOSODA CIECH Group	<ul style="list-style-type: none"> Alternative Concept Basic engineering Basic mechanical equipment drawings for procurement
2002	IMPLEMENTATION OF NEW PRODUCTS KOH + K ₂ CO ₃ at Włocławek Anwil Combine	Poland - Włocławek ANWIL	<ul style="list-style-type: none"> Market analysis
2002	NEW DSA PRODUCTION PLANT - monohydration process at Berezniki Soda Works	Russia - Berezniki BH INDUSTRIES Warszawa	<ul style="list-style-type: none"> Technical & Cost Study Draft of the contract on delivery of civil and equipment erection works
2002	UP-GRADATION OF AIR COMPRESSION STATION Installation of new air compressing unit for LSA pneumatic conveying at Janikowo Soda Works	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Technical & Cost Study Detail engineering On site assistance
2002	MODERNIZATION OF PRESSING UNIT for lead compounds at Głogów Cooper Mill	Poland - Głogów KGHM Polska Miedź O/ Głogów	<ul style="list-style-type: none"> Detail engineering Equipment design
2002	UP-GRADATION OF SODA EFFLUENTS TREATMENT Installation of new over pumping station at Janikowo Soda Works	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Alternative Basic Engineering
2001	NEW DSA PROJECT - monohydration process at Janikowo Soda Works	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Technical Study & Cost Study Draft of the contract on delivery of technology, equipment and services



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DATE	PROJECT NAME	Country - Location Investor / Buyer	SERVICES
2001	UP-GRADATION OF SODA ASH PLANT Implementation of new production technologies at <i>Nirma Soda Works</i>	India NIRMA Limited	<ul style="list-style-type: none"> Preliminary Process Study
2001	UNDERGROUND STORAGE OF OIL & GAS Brine open storage 200.000 m ³ for pumping over Option – decreasing construction soil mass at <i>Solino Mine - Inowrocław</i>	Poland - Inowrocław SOLINO GRUPA ORLEN	<ul style="list-style-type: none"> Basic Engineering Report on project impact on environment Detail engineering Detail Mechanical Designs of fabricated equipment
2001	UP-GRADATION OF LIME SHAFT KILNS Modernization of limestone distribution system at <i>Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> Alternative concepts Detail engineering Detail Mechanical Designs of fabricated equipment
2001	NEW CITRIC ACID PROJECT “free gypsum technology” at <i>Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Alternative Feasibility Study Project impact on environment
2001	UP-GRADATION OF WET SECTION Installation of new storages for ammonia brine & post filtration lye at <i>Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Alternative Technical Concepts Detail engineering Detail Mechanical Designs of fabricated equipment
2000	EXTENSION OF MOLECULAR SIEVES PLANT – Stage II at <i>Inowrocław Atofina Plant</i>	Poland - Inowrocław ATOFINA	<ul style="list-style-type: none"> Engineering services for coordination & approval of documentation
2000	NEW CITRIC ACID PROJECT “gypsum technology” at <i>Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Alternative Feasibility Study Project impact on environment
2000	IMPLEMENTATION NEW TECHNOLOGIES Processing NaOH into DSA at <i>Włocławek Anvil Combine</i>	Poland - Włocławek ANWIL	<ul style="list-style-type: none"> Detail Techno-Economic Study Project impact on environment
2000	NEW DENSIFICATION PROJECT- re-crystallization of monohydrate from solution at <i>Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> Alternative Technical Study
2000	EXTENSION OF MOLECULAR SIEVES PLANT Stage I- at <i>Inowrocław Elf Atochem Plant</i>	Poland - Inowrocław ELF ATOCHEM	<ul style="list-style-type: none"> Engineering services for coordination & approval of documentation
2000	UNDERGROUND STORAGE OF OIL & GAS Brine open storage 200.000 m ³ for pumping over at <i>Solino Mine - Inowrocław</i>	Poland - Inowrocław SOLINO	<ul style="list-style-type: none"> Detail engineering Workshop drawings
1999	UP-GRADATION OF CALCIUM CHLORIDE PLANT Staged Modernization with elimination BaCl ₂ at <i>Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> Detail Feasibility Study



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1999	UNDERGROUND STORAGE OF OIL & GAS Water intake & pumping station for industrial water at <i>Solino Mine</i> - <i>Inowrocław</i>	Poland - Inowrocław SOLINO	<ul style="list-style-type: none"> Alternative Concept
1999	UP-GRADATION OF DEDUSTING SYSTEM Soda dust conveying at <i>Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁY	<ul style="list-style-type: none"> Alternative Concepts Detail engineering Workshop drawings
1999	UNDERGROUND STORAGE OF OIL & GAS Brine open storage 200.000 m ³ for pumping over at <i>Solino Mine</i> - <i>Inowrocław</i>	Poland - Inowrocław SOLINO	<ul style="list-style-type: none"> Alternative Basic Engineering
1999	NEW DENSIFICATION PROJECT - monohydration method at <i>Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁY	<ul style="list-style-type: none"> Alternative Basic Engineering Equipment bidding Business Plan
1999	NEW DCB INSTALLATION "Wet calcination" at <i>Inowrocław Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Alternative Technical Concepts Detail engineering Workshop drawings
1999	PROCESSING NaOH into soda ash & by-products at <i>Włocławek Anvil Combine</i>	Poland ANWIL Włocławek	<ul style="list-style-type: none"> Multi optional Pre-Design Study
1999	UNDERGROUND STORAGE OF OIL & GAS Brine open storage 100.000 m ³ for pumping over at <i>Solino Mine</i> - <i>Inowrocław</i>	Poland - Inowrocław SOLINO	<ul style="list-style-type: none"> Alternative Concept
1999	NEW SODIUM SULPHATE PROJECT at <i>Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Alternative Basic Engineering Equipment bidding
1999	JANIKOWO SODA WORKS Program for Production Diversification to be implemented	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Studies on new technologies Equipment bidding Presenting selected Bidders
1998	UP-GRADATION OF DISTILLATION SECTION Modernization of RH-DS Unit as per NIOKHIM technology at <i>Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁY	<ul style="list-style-type: none"> Piping engineering Adaptation of apparatus mechanical design
1998 1999	UP-GRADATION OF DISTILLATION SECTION Cooling unit for post distillation gas (RH-CD) – stage II & III at <i>Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Alternative Process Concept Detail engineering Equipment procurement Workshop drawings
1998	SALT WORKS Installation of new unit for pickling / corning salt (meat industry) at <i>Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Alternative Technical Concepts Detail engineering Basic and workshop drawings



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DATE	PROJECT NAME	Country - Location Investor / Buyer	SERVICES
1998	EXTENSION OF LIME SHAFT KILNS Installation new 5th kiln with Auxiliaries at <i>Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁY	<ul style="list-style-type: none"> On site assistance
1998	NEW REFINED SODIUM BICARBONATE ♦ Decarbonating unit ♦ Carbonating unit at <i>Soda Plant Stassfurt</i>	Germany - Stassfurt ALEXANDERWERK Soda Plant	<ul style="list-style-type: none"> On site consultation Supervision of start-up
1997	COAL CONVEYING by Schrage type conveyors	Poland Racibórz ZEW	<ul style="list-style-type: none"> Alternative Study Detail Engineering
1997	MODERNIZATION OF DENSE SODA PLANT -Monohydration method at <i>Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Alternative Technical Concepts Detail engineering Equipment procurement
1997	MODERNIZATION OF THERMAL POWER STATION Low NO _x burners and combustion systems at <i>Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁY	<ul style="list-style-type: none"> Tender Documents Contract draft Advising at contractual negotiation
1997 1998	UP-GRADATION OF DISTILLATION SECTION Installation new cooling unit for post distillation gas (RH-CD) – stage I at <i>Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Alternative Process Concept Detail engineering Workshop drawings Equipment procurement On site assistance
1997 1998	SALT WORKS New unit for salt iodating & expedition at <i>Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Pre-design Study Detail engineering Equipment procurement On site assistance
1997	NEW REFINED SODIUM BICARBONATE ♦ Decarbonating unit ♦ Carbonating unit at <i>Soda Plant Stassfurt</i>	Germany- Staßfurt ALEXANDERWERK Soda Plant	<ul style="list-style-type: none"> Basic engineering Detail engineering Workshop dwgs Delivery of equipment
1997	ENVIRONMENTAL SERVICES /MINE DEPOSITS PROTECTION at <i>Wieliczka Salt Mine</i>	Poland - Wieliczka SALT MINE	<ul style="list-style-type: none"> Study on brine discharge and utilization
1997	NEW CALCIUM CHLORIDE PROJECT at <i>Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁY	<ul style="list-style-type: none"> Preparation of International Tender Documents
1997	RAW SODA & DENSE SODA SECTION Modernization & up-gradation at <i>Lukavac Soda Works</i>	Bosnia - Lukavac FSL	<ul style="list-style-type: none"> Alternative Process Concepts On site consultation
1997	UP-GRADATION OF CARBONATION SECTION Installation new carbonating column at <i>Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁY	<ul style="list-style-type: none"> Adaptation of documentation Detail engineering for column in built



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1997	LIME BURNING PLANT Modernization & extension <i>at Alexandria Soda Works</i>	Egypt - Alexandria MISR CHEMICALS	<ul style="list-style-type: none"> Supervision of erection On site assistance
1996	UP-GRADATION OF DISTILLATION SECTION Proportioning the MOL to prelimer (PLM) <i>at Mithapur Soda Works</i>	India TATA Chemicals	<ul style="list-style-type: none"> Technical documentation
1996	7th LIME SHAFT KILN Modernization of lime discharging system <i>at Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Pre-design Study
1996	EXTENSION OF DENSE SODA SECTION - Monohydration new 2nd production line <i>at Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Basic engineering (alternative)
1996 1997	New 5th LIME SHAFT KILN ♦ charge preparation dedusting unit ♦ lime conveying dedusting unit <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> Detail engineering Workshop dwgs Equipment procurement On site assistance
1996 1997	New 5th LIME SHAFT KILN Blowing air heating unit <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> Detail engineering Workshop dwgs Equipment procurement On site assistance
1996 1997	New 5th LIME SHAFT KILN Kiln gas purification unit <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> Detail engineering Workshop dwgs Equipment procurement On site assistance
1996 1997	New 5th LIME SHAFT KILN Kiln installation <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> Detail engineering Workshop dwgs Equipment procurement On site assistance
1996	LIME BURNING SECTION Weighing and dosing of limestone & coke to be fed into kilns <i>at Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> Basic engineering Detail engineering Workshop dwgs Equipment procurement
1995	INOWROCŁAW SODA WORKS Program of production modernization & installation	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> Pre-design study
1995	ENVIRONMENTAL SERVICES Soil drainage around the settling ponds- modernization of pumping station	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> Detail engineering On site assistance



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1995	DENSE SODA PLANT – Compacting method Installation of new fluid bed soda classifier <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Detail engineering • Workshop dwgs • Equipment procurement • On site assistance
1995	PRIVATISATION OF POLISH SODA INDUSTRY <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Evaluation of production technology
1995	LV DISTRIBUTION SYSTEM Modernization of S/ Stations <i>at Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> • Detail engineering • On site assistance
1995	COMPRESSED AIR STATION New installation of oil free compressor <i>at Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> • Detail engineering • Workshop dwgs • Equipment procurement • On site assistance
1995	SALT WORKS Bagging / Packing Unit for domestic salt <i>at Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> • Pre-design Study • Detail engineering • Workshop dwgs • Equipment procurement • On site assistance
1995	PRIVATIZATION OF POLISH SODA INDUSTRY <i>at Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> • Evaluation of production technology
1995	7th LIME SHAFT KILN Process automation & control <i>at Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> • Detail engineering
1995	POTASH – K ₂ CO ₃ Drying Plant New Project	Poland - Pszczyna VERBUS	<ul style="list-style-type: none"> • Pre-design study
1995	ENVIRONMENTAL SERVICES Modernization of the Thermal Power Station	Poland- Wieliczka SALT MINE	<ul style="list-style-type: none"> • Pre-design study
1995	NEW SODA PLANT <i>at Malargue</i>	Argentina - Mendoza SAMIC	<ul style="list-style-type: none"> • Key information



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1995	MODERNIZATION OF SODA MAŁTWY COMPLEX up to 600 000 t/y of soda ash <ul style="list-style-type: none"> ◆ lime burning & slaking ◆ brine purification & absorption ◆ brine carbonation ◆ bica filtration & centrifuging ◆ ammonia distillation ◆ bica calcination ◆ CO₂ gas compression ◆ water management ◆ steam management 	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Alternative Technical & Cost Study
1994	NEW SODA PLANT <i>at Malargue</i>	Argentina Mendoza SAMIC	<ul style="list-style-type: none"> • Technological Concept
1994	UP-GRADATION OF DISTILLATION SECTION 2-nd cooling unit for Post- Distillation Gas (RH-CD) <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Basic engineering • Detail engineering • Workshop dwgs • Equipment procurement • On site assistance
1994	ENVIRONMENTAL ASPECTS Fan towers for cooling water -discharge control <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Detail engineering • On site assistance
1994	ENVIRONMENTAL SERVICES Test plant for post distillation slurry pumping <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Detail engineering • On site assistance
1994	LIME BURNING Over burnt milling – test plant <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Detail engineering • On site assistance
1994	LIME BURNING PLANT Modernization & extension project <i>at Alexandria Soda Works</i> <ul style="list-style-type: none"> ◆ limestone preparation & handling ◆ charging of the kilns ◆ coke fired kiln ◆ gas fired kiln for limestone undersize 	Egypt – Alexandria MISR CHEMICALS	<ul style="list-style-type: none"> • Basic engineering • Detail engineering • Equipment procurement <p><i>KOSIK owner of technology</i> <i>MAERZ owner of technology</i></p>
1994	SODIUM SULPHIDE New installation <i>at Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> • Pre-design study • Workshop dwgs
1994	SALT MINE Utilisation of salt mine water <i>at Wieliczka Salt Mine</i>	Poland - Wieliczka K.S.W.	<ul style="list-style-type: none"> • Pre-design study



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1993	LIME BURNING PLANT M1 Charging system modernization <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Pre-design study • Workshop dwgs
1993	ENVIRONMENTAL SERVICES DISCHARGE OF INDUSTRIAL EFFLUENTS Deep Well Injection Plant	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Pre-design study
1993	SODIUM SILICATE Glaze dissolution Plant New Project <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Pre-design study
1993	DISTILLATION SECTION Replacing SB-Cl washer foam type, by the washer scrubber type <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Pre-design study
1993	ENVIRONMENTAL SERVICES Water System Study for Authority Permit <i>at Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none"> • Pre-design study
1993	INOWROCŁAW CHEMICAL COMPLEX Program of extension and Restructuration <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Pre-design study
1992	INOWROCŁAW CHEMICAL COMPLEX Interconnecting pipelines M1-M2 <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Detail engineering • On site assistance
1992	ENVIRONMENTAL SERVICES Fertilizer chalk plant - acid washing of LAROX Filter <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Detail engineering • Workshop dwgs • Equipment procurement • On site assistance
1992	UP-GRADATION OF DISTILLATION SECTION 1-st cooling unit for Post Distillation Gas (RH-CD) <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Basic engineering • Detail engineering • Workshop dwgs • Equipment procurement • On site assistance
1992	ENVIRONMENTAL SERVICES Fertilizer chalk plant – Installation of 3rd LAROX Filter <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Pre-design study
1992	LIGHT SODA ASH Expansion and up-gradation of the Plant <i>at Inowrocław Soda Works</i>	Poland - Inowrocław SODA MAŁTWY	<ul style="list-style-type: none"> • Pre-design study



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1991	DENSE SODA ASH New installation (monohydration method) <i>at Janikowo Soda Works</i>	Poland - Janikowo JANIKOSODA	<ul style="list-style-type: none">• Feasibility Study• Final Report